

We gratefully acknowledge the following Authors from the Originating laboratories responsible for obtaining the specimens, as well as the Submitting laboratories where the genome data were generated and shared via GISAID, on which this research is based.

All Submitters of data may be contacted directly via [www.gisaid.org](http://www.gisaid.org)

Accession ID	Originating Laboratory	Submitting Laboratory	Authors
EPI_ISL_402124, EPI_ISL_402127, EPI_ISL_402128, EPI_ISL_402129, EPI_ISL_402130	Wuhan Jinyintan Hospital	Wuhan Institute of Virology, Chinese Academy of Sciences	Peng Zhou, Xing-Lou Yang, Ding-Yu Zhang, Lei Zhang, Yan Zhu, Hao-Rui Si, Zhengli Shi
EPI_ISL_402132	Wuhan Jinyintan Hospital	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_403962, EPI_ISL_403963	Bamrasnaradura Hospital	1. Department of Medical Sciences, Ministry of Public Health, Thailand 2. Thai Red Cross Emerging Infectious Diseases - Health Science Centre 3. Department of Disease Control, Ministry of Public Health, Thailand	Pilailuk,Okada; Siriporn,Phuygun; Thanutasa,Thanadachakul; Supaporn,Wacharaprasadee; Sittiporn,Parmen; Warawan,Wongboot; Suntharee,Waicharoen; Rome,Buathong; Malinee,Chittagapitch; Nanthawan,Mekha
EPI_ISL_404227	Zhejiang Provincial Center for Disease Control and Prevention	Department of Microbiology, Zhejiang Provincial Center for Disease Control and Prevention	Yin Chen, Yanjun Zhang, Haiyan Mao, Junhang Pan, Xiuyu Lou, Yiyu Lu, Juying Yan, Hanping Zhu, Jian Gao, Yan Feng, Yi Sun, Hao Yan, Zhen Li, Yisheng Sun, Liming Gong, Qiong Ge, Wen Shi, Xinying Wang, Wenwu Yao, Zhangnv Yang, Fang Xu, Chen Chen, Enfu Chen, Zhen Wang, Zhiping Chen, Jianmin Jiang, Chonggao Hu
EPI_ISL_404228	Zhejiang Provincial Center for Disease Control and Prevention	Department of Microbiology, Zhejiang Provincial Center for Disease Control and Prevention	Yanjun Zhang, Yin Chen, Haiyan Mao, Junhang Pan, Xiuyu Lou, Yiyu Lu, Juying Yan, Hanping Zhu, Jian Gao, Yan Feng, Yi Sun, Hao Yan, Zhen Li, Yisheng Sun, Liming Gong, Qiong Ge, Wen Shi, Xinying Wang, Wenwu Yao, Zhangnv Yang, Fang Xu, Chen Chen, Enfu Chen, Zhen Wang, Zhiping Chen, Jianmin Jiang, Chonggao Hu
EPI_ISL_406592	Shenzhen Third People's Hospital	Shenzhen Key Laboratory of Pathogen and Immunity, National Clinical Research Center for Infectious Disease, Shenzhen Third People's Hospital	Yang Yang, Chengguang Shen, Li Xing, Zhixiang Xu, Haixia Zheng, Yingxia Liu
EPI_ISL_406593	Shenzhen Key Laboratory of Pathogen and Immunity, National Clinical Research Center for Infectious Disease, Shenzhen Third People's Hospital	Shenzhen Key Laboratory of Pathogen and Immunity, National Clinical Research Center for Infectious Disease, Shenzhen Third People's Hospital	Yang Yang, Chengguang Shen, Li Xing, Zhixiang Xu, Haixia Zheng, Yingxia Liu
EPI_ISL_406862	Charité Universitätsmedizin Berlin, Institute of Virology; Institut für Mikrobiologie der Bundeswehr, Munich	Charité Universitätsmedizin Berlin, Institute of Virology	Victor M Corman, Julia Schneider, Talitha Veith, Barbara Mühlmann, Markus Antwerpen, Christian Drosten, Roman Wölfel
EPI_ISL_406970	Hangzhou Center for Disease and Control Microbiology Lab	Hangzhou Center for Disease and Control Microbiology Lab	Yu Hua, Wang Haoqiu, Li Jun, Yu Xinfeng
EPI_ISL_407079	Lapland Central Hospital	Department of Virology, University of Helsinki and Helsinki University Hospital, Helsinki, Finland	Teemu Smura, Sui Kuivaneen, Hannimari Kallio-Kokko, Olli Vapalahti
EPI_ISL_407313	Hangzhou Center for Disease Control and Prevention	Hangzhou Center for Disease Control and Prevention	Jun Li, Haoqiu Wang, Hua Yu, Lingfeng Mao, Xinfen Yu, Zhou Sun, Qingxin Kong, Xin Qian, Shuchang Chen, Xuchi Wang
EPI_ISL_407893	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Eden J-S, Carter I, Rahman H, Holmes EC, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group
EPI_ISL_407976	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Elke Wollants, Annabel Rector, Els Keyaerts, Lies Laenen, Marc Van Ranst, and Piét Maes
EPI_ISL_408430	Department of Infectious and Tropical Diseases, Bichat Claude Bernard Hospital, Paris	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Yazdan Yazdanpanah, Xavier Lescure
EPI_ISL_408431	Sorbonne Université, Inserm et Assistance Publique-Hôpitaux de Paris (Pitié Salpêtrière)	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Sonia Burrel, Anne-Geneviève Marcellin, Vincent Calvez, David Boutolleau, Elise Klément, Valérie Pourcher, Eric Caumes.
EPI_ISL_408480	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie TanXiaoqing FuXiang ZhaoWenling Wang Peihua NiuRoujian Lu,Yanhong SunBaoying HuangLi ZhaoFei FeiYenwenbo XuGeorge F. GaoGuizhen Wu
EPI_ISL_408481	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Hengqin Wang, Xiang Zhao, Wenling Wang, Peihua Niu, Roujian Lu, Sheng Ye, Baoying Huang, Li Zhao, Fei Ye, Wenbo Xu, George F. Gao, Guizhen Wu
EPI_ISL_408482	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Zhaoguo Wang, Xiang Zhao, Wenling Wang, Peihua Niu, Roujian Lu, Ti Liu, Baoying Huang, Li Zhao, Fei Ye, Wenbo Xu, George F. Gao, Guizhen Wu
EPI_ISL_408484	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Jianan Xu, Wenling Wang, Peihua Niu, Roujian Lu, Huiping Yang, Xiang Zhao, Baoying Huang, Li Zhao, Fei Ye, Wenbo Xu, George F. Gao, Guizhen Wu
EPI_ISL_408485	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Quanyi Wang,Wenling Wang, Peihua Niu,Roujian Lu,Yang Pan,Xiang Zhao,Baoying Huang,Li Zhao,Fei Ye,Wenbo Xu,George F. Gao,Guizhen Wu
EPI_ISL_408486	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Yong Shi, Wenling Wang, Peihua Niu, Roujian Lu, Jianxiong Li, Xiang Zhao, Baoying Huang, Li Zhao, Fei Ye, Wenbo Xu, George F. Gao, Guizhen Wu
EPI_ISL_408488	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan, Shenzhao Wang, Wenling Wang, Peihua Niu, Roujian Lu, Kangchen Zhao, Xiang Zhao, Baoying Huang, Li Zhao, Fei Ye, Wenbo Xu, George F. Gao, Guizhen Wu
EPI_ISL_408489	Department of Laboratory Medicine, National Taiwan University Hospital	Microbial Genomics Core Lab, National Taiwan University Centers of Genomic and Precision Medicine	Shiou-Hwei Yeh, You-Yu Lin, Ya-Yun Lai, Chiao-Ling Li, Shan-Chwen Chang, Pei-Jer Chen, Sui-Yuan Chang
EPI_ISL_408666, EPI_ISL_408669	Dept. of Virology III, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Shutoku Matsuyama, Naganori Nao, Kazuya Shirato, Makoto Takeda, Makoto Kuroda
EPI_ISL_408977	Serology, Virology and OTDS Laboratories (SAVID), NSW Health Pathology Randwick	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Centre for Infectious Diseases and Microbiology Laboratory Services; Westmead Hospital; University of Sydney	Eden J-S, Carter I, Rahman H, Rawlinson W, Holmes EC, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_410218	Department of Laboratory Medicine, National Taiwan University Hospital	Microbial Genomics Core Lab, National Taiwan University Centers of Genomic and Precision Medicine	Shiou-Hwei Yeh, You-Yu Lin, Ya-Yun Lai, Chiao-Ling Li, Shan-Chwen Chang, Pei-Jer Chen, Sui-Yuan Chang
EPI_ISL_410301	National Influenza Centre, National Public Health Laboratory, Kathmandu, Nepal	The University of Hong Kong	Ranjit Sah , Runa Jha, Daniel Chu, Haogao Gu, Malik Peiris, Anup Bastola, Alfonso J. Rodriguez-Morales, Bibek Kumar Lal, Basu Dev Pandey, Leo Poon
EPI_ISL_410531, EPI_ISL_410532	Dept. of Pathology, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Harutaka Katano, Shutoku Matsuyama, Naganori Nao, Kazuya Shirato, Motoi Suzuki, Hideki Hasegawa, Takaji Wakita, Makoto Takeda, Tadaki Suzuki, Makoto Kuroda
EPI_ISL_410545	INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Maria R. Capobianchi, Cesare E. M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Emanuela Giombini, Francesca Colavita, Concetta Castilletti, Leonora Lalle, Fabrizio Carletti, Emanuele Nicastri, Giuseppe Ippolito.
EPI_ISL_410546	INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Maria R. Capobianchi, Cesare E. M. Gruber, Martina Rueca, Fabrizio Carletti, Barbara Bartolini, Francesco Messina, Emanuela Giombini, Francesca Colavita, Concetta Castilletti, Leonora Lalle, Emanuele Nicastri, Giuseppe Ippolito.
EPI_ISL_410984	Department of Infectious and Tropical Diseases, Bichat Claude Bernard Hospital, Paris	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Yazdan Yazdanpanah, Xavier Lescure
EPI_ISL_411218	Department of Infectious and Tropical Diseases, Bichat Claude Bernard Hospital, Paris	Laboratoire Virpath, CIRI U111, UCBL1, INSERM, CNRS, ENS Lyon	Olivier Terrier, Aurélien Traversier, Julien Fouret, Yazdan Yazdanpanah, Xavier Lescure, Catherine Legras-Lachuer, Alexandre Gaymard, Bruno Lina, Manuel Rosa-Calatrava
EPI_ISL_411219, EPI_ISL_411220	Department of Infectious and Tropical Diseases, Bichat Claude Bernard Hospital, Paris	Laboratoire Virpath, CIRI U111, UCBL1, INSERM, CNRS, ENS Lyon	Olivier Terrier, Aurélien Traversier, Julien Fouret, Yazdan Yazdanpanah, Xavier Lescure, Alexandre Gaymard, Bruno Lina, Manuel Rosa-Calatrava
EPI_ISL_411902	Virology Unit, Institut Pasteur du Cambodge.	Virology Unit, Institut Pasteur du Cambodge (Sequencing done by: Jessica E Manning/Jennifer A Bohl at Malaria and Vector Research Research Laboratory, National Institute of Allergy and Infectious Diseases and Vida Ahyong from Chan-Zuckerberg Biohub)	Erik A Karlsson, Jennifer A Bohl, Vida Ahyong, Veasna Duong, Philippe Dussart, Jessica E Manning.
EPI_ISL_412386	Beijing Ditan Hospital, Capital Medical University	National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention	Xinmin Xu, Xin Lu, Pan Xiang, Haijian Zhou, Biao Kan, Yajie Wang, Jingyuan Liu, Yanwen Xiong, Huizhu Wang, Ruihong Li, Fangfang Jin, Jie Gong, Xiaoping Chen, Lili Gao, Haofeng Xiong, Lin Pu, Chuansheng Li, Ming Zhang, Janbo Tan, Yao Sun, Yufeng Liu, Hebing Guo, Jingjing Hao
EPI_ISL_412459	Jingzhou Center for Disease Control and Prevention	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_412964	Hospital Israelita Albert Einstein	Instituto Adolfo Lutz Interdisciplinary Procedures Center Strategic Laboratory	Jacqueline Goes de Jesus, Claudio Tavares Sacchi, Daniela Bernandes Borges da Silva, Ingra Morales Claro, Flávia Cristina da Silva Sales, Claudia Regina Gonçalves, Joshua Quick, Maria do Carmo, Sampaio Tavares Timenitez, Nicholas James Loman, Andrew Rambaut, Ester Cerdeira Sabino, Nuno Rodrigues Faría
EPI_ISL_412970	Washington State Department of Health	Seattle Flu Study	Helen Chu, Michael Boehck, Janet Englund, Michael Famulare, Barry Lutz, Deborah Nickerson, Mark Rieder, Lea Starita, Matthew Thompson, Jay Shendure, and Trevor Bedford
EPI_ISL_412972	Instituto Nacional de Enfermedades Respiratorias	Instituto de Diagnóstico y Referencia Epidemiológico (INDR)	Ramirez-Gonzalez Ernesto, Garces-Ayala Fabiola, Araiza-Rodriguez Adnan, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Aramblua Claudia, Vazquez-Perez Joel, Martinez Arturo, Boukadija Celia, Munoz-Medina Esteban, Sanchez Alejandro, Isa Pavel, Taboada Blanca, Lopez Susana, Arias Carlos, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma
EPI_ISL_412975	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Eden J-S, Carter I, Rahman H, Holmes EC, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group
EPI_ISL_412978	The Central Hospital Of Wuhan	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.

EPI_ISL_412979, EPI_ISL_412980	Union Hospital of Tongji Medical College, Huazhong University of Science and Technology	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_412981	CR&WISCO GENERAL HOSPITAL	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_412982	Wuhan Lung Hospital	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_412983	Tianmen Center for Disease Control and Prevention	Hubei Provincial Center for Disease Control and Prevention	Bin Fang, Xiang Li, Xiao Yu, Linlin Liu, Bo Yang, Faxian Zhan, Guojun Ye, Xiangxiang Huo, Junqiang Xu, Bo Yu, Kun Cai, Jing Li, Yongzhong Jiang.
EPI_ISL_413016	Hospital Israelita Albert Einstein	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Jacqueline Goes de Jesus, Claudio Tavares Sacchi, Fabiana Cristina Pereira dos Santos, Ingra Morales Claro, Flavia Cristina da Silva Sales, Claudia Regina Goncalves, Joshua Quick, Maria do Carmo Sampayo Tavares Timenetsky, Nicholas James Loman, Andrew Rambaut, Ester Cerdeira Sabino, Nuno Rodrigues Faria
EPI_ISL_413213, EPI_ISL_413214	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Eden J-S, Carter I, Rahman H, Holmes EC, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413459	Department of Pathology, Toshima Hospital	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kentaro Itokawa, Takuwa Adachi, Masahiro Sano, Jun Yamazaki, Ippei Miyamoto, Haruka Nishioka, Ja-Mun Chong, Noriko Nakajima, Yuko Sato, Minoru Tobiume, Harutaka Katano, Tadasi Suzuki, Makoto Kuroda
EPI_ISL_413490	Auckland Hospital	Institute of Environmental Science and Research (ESR)	Matt Storey, Xiaoyun Ren, Gary McAuliffe, Sally Roberts, Matthew Blakiston, Erasmus Smit, Lauren Jelly, Joep de Ligt
EPI_ISL_413522	Indian Council of Medical Research - National Institute of Virology	National Influenza Center, Indian Council of Medical Research - National Institute of Virology	Potdar V, Yadav PD, Choudhary ML, Shete-Aich A
EPI_ISL_413523	Indian Council of Medical Research-National Institute of Virology	National Influenza Center, Indian Council of Medical Research-National Institute of Virology	Potdar V, Yadav PD, Choudhary ML, Shete-Aich A
EPI_ISL_413594	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Rockett R, Eden J-S, Lam C, Gray K, Timms, V, Gall, M, Alicia, A, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413595	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Rockett R, Eden J-S, Lam C, Gray K, Timms, V, Gall, M, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413596	Centre for Infectious Diseases and Microbiology - Public Health	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Rockett R, Eden J-S, Lam C, Gray K, Timms, V, Gall, M, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413597	Centre for Infectious Diseases and Microbiology- Public Health	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Lam C, Eden J-S, Rockett R, Gray K, Timms, V, Gall, M, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413598	Centre for Infectious Diseases and Microbiology - Public Health	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Gray K, Eden J-S, Lam C, Rockett R, Timms, V, Gall, M, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413599	Centre for Infectious Diseases and Microbiology - Public Health	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Timms, V, Eden J-S, Lam C, Gray K, Rockett R, Gall, M, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413600	Centre for Infectious Diseases and Microbiology - Public Health	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Gall, M, Eden J-S, Lam C, Gray K, Timms, V, Rockett R, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_413647	Centro Hospital do Porto, P.E. - H. Geral de Santo Antonio	Instituto Nacional de Saude (INSA)	Raquel Guiomar, Inês Costa, Pedro Pechirra, Joana Mendonça, Luís Vieira, Helena Ramos, Joana Isidro, Vitor Borges, João Paulo Gomes
EPI_ISL_413648	Centro Hospitalar e Universitário de São João, Porto	Instituto Nacional de Saude (INSA)	Raquel Guiomar, Inês Costa, Pedro Pechirra, Joana Mendonça, Luís Vieira, João Tiago Guimarães, Joana Isidro, Vitor Borges, João Paulo Gomes
EPI_ISL_414014	Hospital Israelita Albert Einstein	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Katia Correia dos Santos, Carlos Henrique Camargo, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva, Ester Cerdeira Sabino
EPI_ISL_414015	Hospital São Joaquim Beneficência Portuguesa	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, SimoneGuadagnucci Morillo, Carlos Henrique Camargo, Maria do Carmo Sampayo Tavares Timenetsky, Fabiana Cristina Pereira dos Santos Terezinha Maria de Paiva, Ester Cerdeira Sabino
EPI_ISL_414016	Hospital São Joaquim Beneficência Portuguesa	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Audrey Cilli, Carlos Henrique Camargo, Maria do Carmo Sampayo Tavares Timenetsky, Daniela Bernardes Borges da Silva, Terezinha Maria de Paiva, Ester Cerdeira Sabino
EPI_ISL_414017	Hospital São Joaquim Beneficência Portuguesa	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Fabiana Cristina Pereira dos Santos, Carlos Henrique Camargo, Maria do Carmo Sampayo Tavares Timenetsky, Daniela Bernardes Borges da Silva, Terezinha Maria de Paiva, Ester Cerdeira Sabino
EPI_ISL_414477	The National Institute of Public Health Center for Epidemiology and Microbiology	State Veterinary Institute Prague	Alexander Nagy, Oldrich Bartos, Helena Jirincova, Klara Labska, Ludmila Novakova, Olga Storkanova, Dusan Trnka, Jaromira Vecerova
EPI_ISL_414495	Servicio Microbiología, Hospital Clínico Universitario. Valencia.	Sequencing and Bioinformatics Service, Molecular Epidemiology Laboratory, FISABIO-Public Health	David Navarro, Maria Alma Bracho, Giuseppe D'Auria, Griselda De Marco, Neris Garcia-Gonzalez, Fernando Gonzalez-Candelas
EPI_ISL_414496	Servicio Microbiología, Hospital Clínico Universitario. Valencia.	Sequencing and Bioinformatics Service, Molecular Epidemiology Laboratory, FISABIO-Public Health	David Navarro, Maria Alma Bracho, Giuseppe D'Auria, Griselda De Marco, Neris Garcia-Gonzalez, Fernando Gonzalez-Candelas
EPI_ISL_414520, EPI_ISL_414521	Bundeswehr Institute of Microbiology	Bundeswehr Institute of Microbiology	Mathias C Walter, Markus H Antwerpen and Roman Wölfel
EPI_ISL_414577	Hospital de Talca, Chile	Instituto de Salud Pública de Chile	Andrés E. Castillo, Bárbara Parra, Paz Tapia, Alejandra Acevedo, Jaime Lagos, Winston Andrade, Lorena Arata, Gabriel Leal, Gisselle Barra, Carolina Tambley, Javier Tognarelli, Patricia Bustos, Soledad Ulloa, Rodrigo Fasce, Jorge Fernández.
EPI_ISL_414598	Servicio Microbiología, Hospital Clínico Universitario, Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group, FISABIO-Public Health.	David Navarro, Maria Alma Bracho, Giuseppe D'Auria, Griselda De Marco, Neris Garcia-Gonzalez, Fernando Gonzalez-Candelas
EPI_ISL_414623	Laboratoire de Virologie Institut de Virologie - INSERM U 1109 Hôpitaux Universitaires de Strasbourg	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Samira Fafi-Kremer
EPI_ISL_414624	Centre Hospitalier Universitaire de Rouen Laboratoire de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Jean-Christophe Plantier
EPI_ISL_414625	Centre Hospitalier Régional Universitaire de Nantes Laboratoire de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Marianne Coste-Burel
EPI_ISL_414626	unknown	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_414627, EPI_ISL_414628,	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_414629, EPI_ISL_414630	Hôpital Robert Debré Laboratoire de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Laurent Andreotti
EPI_ISL_414631, EPI_ISL_414632	Centre Hospitalier René Dubois Laboratoire de Microbiologie - Bât A	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Pascale Martres
EPI_ISL_414634, EPI_ISL_414635,	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_414636, EPI_ISL_414637,		The First Affiliated Hospital of Guangzhou Medical University & BGI-Shenzhen	Zhao et al
EPI_ISL_414638			
EPI_ISL_414691	State Key Laboratory of Respiratory Disease, National Clinical Research Center for Respiratory Disease, Guangzhou Institute of Respiratory Health, the First Affiliated Hospital of Guangzhou Medical University	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Marti-Carreras, Tony Wawina, Marc Van Ranst, Piet Maes
EPI_ISL_415153	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Marti-Carreras, Tony Wawina, Marc Van Ranst, Piet Maes
EPI_ISL_415154	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Marti-Carreras, Tony Wawina, Marc Van Ranst, Piet Maes
EPI_ISL_415155	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Marti-Carreras, Tony Wawina, Marc Van Ranst, Piet Maes
EPI_ISL_415156, EPI_ISL_415157,	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Marti-Carreras, Tony Wawina, Piet Maes
EPI_ISL_415157, EPI_ISL_415158,			
EPI_ISL_415159	R. G. Lugar Center for Public Health Research, National Center for Disease Control and Public Health (NCDC) of Georgia.	R. G. Lugar Center for Public Health Research, National Center for Disease Control and Public Health (NCDC) of Georgia.	Nato Kotaria, Marine Murtkhvaladze, Ann Machabishvili, Lela Sabadze, Mari Gavashelidze, Anna Papikashvili, Meri Pantulashvili, Gvantsa Brachveli, Tata Imnadze, Tamar Jashashvili, Tea Tevdoradze, Ketevan Sidamoniadze, Ekaterine Ghazadze, Roena Sukhiashvili, Mariam Kazalashvili, Lela Urushadze, Magda Dgebuadze, Giorgi Tomashvili, Davit Tsaguria, Ekaterine Zangaladze, Nino Berishvili, Gvantsa Chanturia, Adam Kotorashvili, Maia Alkhazashvili, Irma Burjanadze, Anna Krasradze, Khatuna Zakhashvili, Paata Imnadze, Amiran Gamkrelidze.
EPI_ISL_415649	unknown	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_415650	Hôpital Instruction des Armées - BEGIN	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Bigailon
EPI_ISL_415651	Unknown	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_415652	unknown	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_415654	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_415710	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrej Komissarov, Artem Fadeev, Anna Ivanova, Daria Danilenko
EPI_ISL_416028	National Influenza Center - Instituto Adolfo Lutz	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Goncalves, Carlos Henrique Camargo, Fabiana Cristina Pereira dos Santos, Daniela Bernardes Borges da Silva, Simone Guadagnucci Morillo, Adriano Abbud, Adriana Bugno, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva

EPI_ISL_416029	Laboratório Fleury	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Carlos Henrique Camargo, Fabiana Cristina Pereira dos Santos, Daniela Bernardes Borges da Silva, Simone Guadagnucci Morillo, Adriano Abbud, Adriana Bugno, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva
EPI_ISL_416031, EPI_ISL_416032	National Influenza Center - Instituto Adolfo Lutz	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Carlos Henrique Camargo, Fabiana Cristina Pereira dos Santos, Daniela Bernardes Borges da Silva, Simone Guadagnucci Morillo, Adriano Abbud, Adriana Bugno, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva
EPI_ISL_416033, EPI_ISL_416034	Hospital Israelita Albert Einstein	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Carlos Henrique Camargo, Erica Valessa Ramos Gomes, Fabiana Cristina Pereira dos Santos, Daniela Bernardes Borges da Silva, Simone Guadagnucci Morillo, Adriano Abbud, Adriana Bugno, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva
EPI_ISL_416035, EPI_ISL_416036	National Influenza Center - Instituto Adolfo Lutz	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Carlos Henrique Camargo, Erica Valessa Ramos Gomes, Fabiana Cristina Pereira dos Santos, Daniela Bernardes Borges da Silva, Simone Guadagnucci Morillo, Adriano Abbud, Adriana Bugno, Maria do Carmo Sampayo Tavares Timenetsky, Terezinha Maria de Paiva
EPI_ISL_416142	Department of Virus and Microbiological Special diagnostics, Statens Serum Institut, Copenhagen, Denmark.	Statens Serum Institute	Morten Rasmussen, Maiken Worse Rosensterne, Anders Fomsgaard
EPI_ISL_416143, EPI_ISL_416144	Department of Virus and Microbiological Special diagnostics, Statens Serum Institut, Copenhagen, Denmark.	ViFU	Morten Rasmussen, Maiken Worse Rosensterne, Anders Fomsgaard
EPI_ISL_416426	Virological Research Group, Szentágóthai Research Centre, University of Pécs	Bioinformatics Research Group, Szentágóthai Research Centre, University of Pécs	Péter Urbán, Endre Gábor Tóth, Gábor Keményi, Róbert Herczeg, Attila Gyenesi, Ferenc Jakab
EPI_ISL_416458	Virology laboratory Ministry of Health Kuwait sequenced at Dasman Diabetes Institute	Dasman Diabetes Institute	Fahd Al-Mulla, Sumi John, Sara Alqabandi, Rasheeba iqbal, Motasem Melhem, Ebaa alOzairi, Qais Al-Duwairi
EPI_ISL_416469, EPI_ISL_416470, EPI_ISL_416471, EPI_ISL_416472, EPI_ISL_416475	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Tony Wawina, Joan Martí-Carreras, Piet Maes
EPI_ISL_416485	Servicio de Microbiología, Consorcio Hospital General Universitario de Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group. FISABIO-Public Health	Griselda De Marco, Neris Garcia-Gonzalez, María Alma Bracho, María Dolores Ocete, Concepción Gimeno, Giuseppe D'Auria, Fernando González-Candela
EPI_ISL_416486	Servicio de Microbiología, Consorcio Hospital General Universitario de Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group. FISABIO-Public Health	Neris Garcia-Gonzalez, María Alma Bracho, María Dolores Ocete, Concepción Gimeno, Giuseppe D'Auria, Griselda De Marco, Fernando González-Candela
EPI_ISL_416487	Servicio de Microbiología, Consorcio Hospital General Universitario de Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group. FISABIO-Public Health	Giuseppe D'Auria, Griselda De Marco, Neris Garcia-Gonzalez, María Alma Bracho, María Dolores Ocete, Concepción Gimeno, Fernando González-Candela
EPI_ISL_416488	ViroGenetics - BSL3 Laboratory of Virology; Human Genome Variation Research Group & Genomics Centre MCB; Bioinformatics Research Group Department of Virology	ViroGenetics - BSL3 Laboratory of Virology; Human Genome Variation Research Group & Genomics Centre MCB; Bioinformatics Research Group Department of Virology	Aleksandra Milewska, Ewelina Pośpiech, Agata Jarosz, Adrianna Klajman, Katarzyna Pancer, Małgorzata Rzeckowska, Tomasz Wolkowicz, Katarzyna Zacharczuk, Agnieszka Kolakowska-Kulesza, Natalia Wolaniuk, Ewelina Hallman-Szelinska, Paweł Łabaj, Wojciech Branicki, Krzysztof Pyrc
EPI_ISL_416493	CH Jean de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_416494	Centre Hospitalier Universitaire de Rouen Laboratoire de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Jean-Christophe Planter
EPI_ISL_416495, EPI_ISL_416496, EPI_ISL_416497	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_416498	Institut Médico légal- Hop R. Poincaré	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_416499, EPI_ISL_416500	LABM GH nord Essonne	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_416501	Hopital franco britannique - Service des Urgences	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_416502, EPI_ISL_416503, EPI_ISL_416504, EPI_ISL_416505, EPI_ISL_416506, EPI_ISL_416507, EPI_ISL_416508, EPI_ISL_416509, EPI_ISL_416510, EPI_ISL_416511, EPI_ISL_416512, EPI_ISL_416513	see above	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Méline Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Grisèle Lagathu
EPI_ISL_416565, EPI_ISL_416567, EPI_ISL_416569, EPI_ISL_416570, EPI_ISL_416571, EPI_ISL_416572, EPI_ISL_416573, EPI_ISL_416574, EPI_ISL_416575, EPI_ISL_416576, EPI_ISL_416577, EPI_ISL_416578, EPI_ISL_416579, EPI_ISL_416580, EPI_ISL_416581, EPI_ISL_416582, EPI_ISL_416583, EPI_ISL_416585, EPI_ISL_416587, EPI_ISL_416589, EPI_ISL_416590, EPI_ISL_416591, EPI_ISL_416592, EPI_ISL_416593, EPI_ISL_416594, EPI_ISL_416595, EPI_ISL_416596, EPI_ISL_416597, EPI_ISL_416598, EPI_ISL_416599, EPI_ISL_416600, EPI_ISL_416601, EPI_ISL_416602, EPI_ISL_416603, EPI_ISL_416604, EPI_ISL_416605, EPI_ISL_416606, EPI_ISL_416607, EPI_ISL_416608, EPI_ISL_416609, EPI_ISL_416610, EPI_ISL_416611, EPI_ISL_416612, EPI_ISL_416613, EPI_ISL_416614, EPI_ISL_416615, EPI_ISL_416617, EPI_ISL_416618, EPI_ISL_416619, EPI_ISL_416620, EPI_ISL_416621, EPI_ISL_416622, EPI_ISL_416624, EPI_ISL_416625, EPI_ISL_416626, EPI_ISL_416627, EPI_ISL_416628, EPI_ISL_416629, EPI_ISL_416630, EPI_ISL_416631, EPI_ISL_416632, EPI_ISL_416633, EPI_ISL_416634	see above	Japanese Quarantine Stations	Tsuyoshi Sekizuka, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Tsutomu Kageyama, Shinji Saito, Ikuo Takayama, Hideki Hasegawa, Takuri Takahashi, Hajime Kamiya, Takuwa Yamagishi, Motoi Suzuki, Takaji Wakita, Makoto Kuroda
EPI_ISL_416744	Virological Research Group, Szentágóthai Research Centre	Bioinformatics Research Group, Szentágóthai Research Centre	Péter Urbán, Endre Gábor Tóth, Gábor Keményi, Róbert Herczeg, Attila Gyenesi, Ferenc Jakab
EPI_ISL_416829	National Public Health Laboratory	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Norazimah Tajudin, Noorliza Mohamad Noordin, W Afiza W Mohd Arifin, Rehan Shuhada Abu Bakar, Yu Kie Chem, Selvanesan Sengol, Hani Mat Hussin, Shahruh Isham Zainal Ariffin
EPI_ISL_416866	National Public Health Laboratory	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Norazimah Tajudin, Noorliza Mohamad Noordin, W Afiza W Mohd Arifin, Rehan Shuhada Abu Bakar, Yu Kie Chem, Selvanesan Sengol, Hani Mat Hussin, Shahruh Isham Zainal Ariffin
EPI_ISL_416885, EPI_ISL_416886	National Public Health Laboratory	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Norazimah Tajudin, Noorliza Mohamad Noordin, W Afiza W Mohd Arifin, Rehan Shuhada Abu Bakar, Yu Kie Chem, Selvanesan Sengol, Hani Mat Hussin, Shahruh Isham Zainal Ariffin
EPI_ISL_416907	National Public Health Laboratory	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Norazimah Tajudin, Noorliza Mohamad Noordin, W Afiza W Mohd Arifin, Rehan Shuhada Abu Bakar, Yu Kie Chem, Selvanesan Sengol, Hani Mat Hussin, Shahruh Isham Zainal Ariffin
EPI_ISL_416994	COMPLEJO ASISTENCIAL UNIVERSITARIO DE BURGOS	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero S. Pozo F. Casas I. Jiménez P. Jiménez Z. Zaballos A. Monzón, S. Varona, S. Juliá M. Cuesta I. Megías Lobón, G. Hospital: -----
EPI_ISL_417007	HOSPITAL SANTA MARIA NAI	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero S. Pozo F. Casas I. Jiménez P. Jiménez Z. Zaballos A. Monzón, S. Varona, S. Juliá M. Cuesta I. Megías Lobón, G. Hospital: -----
EPI_ISL_417010	FUNDACION JIMENEZ DIAZ	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero S. Pozo F. Casas I. Jiménez P. Jiménez Z. Zaballos A. Monzón, S. Varona, S. Juliá M. Cuesta I. Fernández Roblas, R.
EPI_ISL_417015, EPI_ISL_417016, EPI_ISL_417018, EPI_ISL_417019	Department of Clinical Microbiology	GIGA Medical Genomics	Durkin Keith, Artésia Maria, Bontems Sébastien, Boreux Raphaël, Meex Cécile, Melin Pierrette, Hayette Marie-Pierre, Bours Vincent
EPI_ISL_417030	Centre for Infectious Diseases and Microbiology Laboratory Services	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	Eden J-S, Rockett R, Carter I, Rahman H, Holmes EC, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Kok J and Dwyer DE for the 2019-nCoV Study Group*
EPI_ISL_417034	Laboratorio de Ecología de Doencias Transmisiíveis na Amazonia, Instituto Leonidas e Maria Deane - Fiocruz Amazonia	Laboratorio de Ecología de Doencias Transmisiíveis na Amazonia, Instituto Leonidas e Maria Deane - Fiocruz Amazonia	Valdinete Nascimento, André Corado, Fernanda Nascimento, Agatha Costa, Debora Duarte, Luciana Gonçalves, Michele Jesus, Sérgio Luz, Felipe Naveca
EPI_ISL_417176	Department of Pathology, Princess Margaret Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hui-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong Yip, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun Que, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_417181, EPI_ISL_417185	Department of Pathology, United Christian Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hui-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong Yip, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun Que, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_417186	National Institute for Communicable Diseases of the National Health Laboratory Service	National Institute for Communicable Diseases of the National Health Laboratory Service	Allam M, Kwenda S, van Heusden P, Khumalo Z, Mohale T, Subramoney K, von Gottberg, A, Ismail A, Bhiman JN
EPI_ISL_417187, EPI_ISL_417188, EPI_ISL_417193	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hui-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong Yip, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun Que, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_417333, EPI_ISL_417334, EPI_ISL_417335, EPI_ISL_417336, EPI_ISL_417337, EPI_ISL_417339	Institut des Agents Infectieux (IAI), Hospices Civils de Lyon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendoline Burfin, Solenne Brun, Carine Moustaud, Raphaëlle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Laurence Josset, Bruno Lina
EPI_ISL_417443	State Key Laboratory for Emerging Infectious Diseases Department of Microbiology Li Ka Shing Faculty of Medicine The University of Hong Kong	State Key Laboratory for Emerging Infectious Diseases Department of Microbiology Li Ka Shing Faculty of Medicine The University of Hong Kong	Pui Wang, Siu-Ying Lau, Shaofeng Deng, Bobo Wing-Yee Mok, Wenjun Song, Kwok-Yung Yuen, Honglin Chen
EPI_ISL_417491	Virology Laboratory, Department of Biomedical Sciences and Public Health, University Politecnica delle Marche	Virology and Legal Medicine Laboratories, Department of Biomedical Sciences and Public Health, University Politecnica delle Marche	Bagnarelli, P., Caucci, S., Di Sante, L., Menzo, S., Alessandrini, F., Onofri, V., Turchi, C., Tagliabuoni, A.
EPI_ISL_417877	Institute of Virology, Biomedical Research Center of the	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Comenius University	Monika Sláviková, Martina Ličková, Sabina Fumačová Havlíková, Juraj Kočí, Juraj Kopáček, Elena Tichá, Edita Staroňová, Jaroslav Budšík, Werner Krampf, Miroslav Böhmer, Diana

EPI_ISL_417878	Slovak Academy of Sciences, Bratislava; Public Health Authority of the Slovak Republic, Bratislava	Science Park, Bratislava	Rusňáková, Tomáš Szemeš, Boris Klempa
	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Public Health Authority of the Slovak Republic, Bratislava	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Comenius University Science Park, Bratislava	Monika Sláviková, Martina Ličková, Sabina Fumačová Havlíková, Juraj Kočí, Juraj Kopáček, Elena Tichá, Edita Staroňová, Jaroslav Budíš, Werner Krampf, Miroslav Böhmer, Diana Rusháková, Tomáš Szemeš, Boris Klempa
EPI_ISL_417879	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Public Health Authority of the Slovak Republic, Bratislava	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Comenius University Science Park, Bratislava	Monika Sláviková, Martina Ličková, Sabina Fumačová Havlíková, Juraj Kočí, Juraj Kopáček, Elena Tichá, Edita Staroňová, Jaroslav Budíš, Werner Krampf, Miroslav Böhmer, Diana Rusháková, Tomáš Szemeš, Boris Klempa
EPI_ISL_417880	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Public Health Authority of the Slovak Republic, Bratislava	Institute of Virology, Biomedical Research Center of the Slovak Academy of Sciences, Bratislava; Comenius University Science Park, Bratislava	Monika Sláviková, Martina Ličková, Sabina Fumačová Havlíková, Juraj Kočí, Juraj Kopáček, Elena Tichá, Edita Staroňová, Jaroslav Budíš, Werner Krampf, Miroslav Böhmer, Diana Rusháková, Tomáš Szemeš, Boris Klempa
EPI_ISL_417924	Secretaría de Salud Medellín	Instituto Nacional de Salud, Universidad Cooperativa de Colombia, Instituto Alexander von Humboldt, Imperial College-London, London School of Hygiene & Tropical Medicine	Marcela Mercado-Reyes, Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Jose A. Usme-Ciro, Gloria Puerto, Nicolás D. Franco-Sierra, Mailyn A. Gonzalez, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Susy Echeverría-Londrillo, Astrid C. Flórez, Sergio Gomez Rangel, Luz Dary Rodríguez, Juliana Barbosa, Erika Ospita, Diana Marcela WALTEROS-Acero, Martha Lucia Ospina Martínez
EPI_ISL_418183	Virological Research Group, Szentágóthai Research Centre	Bioinformatics Research Group, Szentágóthai Research Centre	Péter Urbán, Endre Gábor Tóth, Gábor Keményi, Róbert Herczeg, Attila Gyenesi, Ferenc Jakab
EPI_ISL_418206, EPI_ISL_418207, EPI_ISL_418208, EPI_ISL_418209, EPI_ISL_418210, EPI_ISL_418211	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Ousmane Faye, Amadou Alpha Sall
EPI_ISL_418212	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Ousmane Faye, Amadou Alpha sall
EPI_ISL_418213	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Ousmane Faye, Amadou Alpha Sall
EPI_ISL_418215	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Ousmane Faye, Amadou Alpha Sall
EPI_ISL_418216, EPI_ISL_418217	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Ousmane Faye, Amadou Alpha Sall
EPI_ISL_418218	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418219	CHU - Hôpital Cavale Blanche - Labo. de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418220, EPI_ISL_418221	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418222	CHRU Bretonneau - Serv. Bactério-Virol.	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Julien Mariet
EPI_ISL_418223, EPI_ISL_418224, EPI_ISL_418225	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418226	EHPAD - Résidences les Cèdres	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418227, EPI_ISL_418228	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418229	Hôpital franco britannique - Laboratoire	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418230	Clinique AVERY LA BROUSTE, Med. Polyvalente	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Elsa Ngwenya
EPI_ISL_418231	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418232, EPI_ISL_418233	Service des Urgences	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Boubkeur
EPI_ISL_418234	LABM GH nord Essonne	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert
EPI_ISL_418235	Cabinet médical	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_418236, EPI_ISL_418237, EPI_ISL_418239	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_418240	LABM GH nord Essonne	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert
EPI_ISL_418241, EPI_ISL_418242	NIC Viral Respiratory Unit - Institut Pasteur of Algeria	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Fawzi Derrig Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Sanbonmatsu S.
EPI_ISL_418244	HOSPITAL UNIVERSITARIO VIRGEN DE LAS NIEVES	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. González-Praetorius A.
EPI_ISL_418245, EPI_ISL_418246	Hospital General y Universitario de Guadalajara	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Hernando-Real S.
EPI_ISL_418247	HOSPITAL GENERAL DE SEGOVIA	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Megías-Lobón G.
EPI_ISL_418248, EPI_ISL_418249	COMPLEJO ASISTENCIAL UNIVERSITARIO DE BURGOS	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Marcos M.A
EPI_ISL_418250	HOSPITAL CLINIC	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Romero P.
EPI_ISL_418251	HOSPITAL UNIVERSITARIO LA PAZ	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Romero P.
EPI_ISL_418252	FUNDACION JIMENEZ DIAZ	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Fernández Roblas, R.
EPI_ISL_418253	HOSPITAL TXAGORRITXU	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Gomez-Gonzalez C.
EPI_ISL_418256	Ospedale "San Liberatore" di Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale"	Lorusso A, Marzocchi M, Di Domenico M, Puglia I, Curini V, Ancora M, Di Pasquale A, Rinaldi A, Mangone I, Cammà C, Savini G.
EPI_ISL_418257	Ospedale Civile Giuseppe Mazzini, Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale"	Lorusso A, Marzocchi M, Di Domenico M, Puglia I, Curini V, Ancora M, Di Pasquale A, Rinaldi A, Mangone I, Cammà C, Savini G.
EPI_ISL_418262	Instituto Nacional de Salud	Instituto Nacional de Salud Universidad Cooperativa de Colombia Instituto Alexander von Humboldt Imperial College-London London School of Hygiene & Tropical Medicine	Marcela Mercado-Reyes, Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Jose A. Usme-Ciro, Gloria Puerto, Nicolás D. Franco-Real, Mailyn A. Gonzalez, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Susy Echeverría-Londrillo, Astrid C. Flórez, Sergio Gomez Rangel, Luz Dary Rodríguez, Juliana Barbosa, Erika Ospita, Diana Marcela WALTEROS-Acero, Nuno Rodrigues Faria, Martha Lucia Ospina Martínez
EPI_ISL_418624, EPI_ISL_418633, EPI_ISL_418645, EPI_ISL_418646, EPI_ISL_418648, EPI_ISL_418649, EPI_ISL_418650, EPI_ISL_418651, EPI_ISL_418652, EPI_ISL_418659, EPI_ISL_418660, EPI_ISL_418664	see above	GIGA Medical Genomics	Keith Durkin, Maria Artesi, Sébastien Bontems, Raphaël Boreux, Cécile Meix, Pierrrette Melin, Marie-Pierre Hayette, Vincent Bouris.
EPI_ISL_418800	Department of Clinical Microbiology	KU Leuven, Clinical and Epidemiological Virology	Bert Vanmechelen, Joan Martí-Carreras, Tony Wawina, Piet Maes
EPI_ISL_418815	KU Leuven, Clinical and Epidemiological Virology	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_418990, EPI_ISL_418991	State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, National Clinical Research Center for Infectious Diseases, First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China 310003	State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, National Clinical Research Center for Infectious Diseases, First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China 310003	Hanging Yao, Nanping Wu, Chao Jiang, Xiangyun Lu, Linfang Cheng, Fumin Liu, Zhihang Wu, Haibo Wu, Changzhong Jin, Min Zheng, Lanjuan Li
EPI_ISL_419214, EPI_ISL_419215, EPI_ISL_419216	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419217	Department of Pathology, Princess Margaret Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419219	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419221	Department of Pathology, United Christian Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU

EPI_ISL_419222	Department of Pathology, Princess Margaret Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419224, EPI_ISL_419225, EPI_ISL_419226, EPI_ISL_419227, EPI_ISL_419228, EPI_ISL_419229	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419230	Hospital Universitario Virgen de las Nieves	Instituto de Salud Carlos III	Iglesias-Caballero, M.; Molinero Calamita, M.; González-Esguevillas, M.; Camarero, S.; Pozo, F.; Casas, I.; Jiménez, P.; Jiménez, M.; Zaballos, A.; Monzón, S.; Varona, S.; Juliá, M.; Cuesta, I.; Sanbonmatsu, S.
EPI_ISL_419231	Department of Clinical Pathology, Tuen Mun Hospital, 23 Tsing Chung Koon Road, Tuen Mun, N.T.	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419232	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419233	Hospital Universitario de Canarias	Instituto de Salud Carlos III	Iglesias-Caballero, M.; Molinero Calamita, M.; González-Esguevillas, M.; Camarero, S.; Pozo, F.; Casas, I.; Jiménez, P.; Jiménez, M.; Zaballos, A.; Monzón, S.; Varona, S.; Juliá, M.; Cuesta, I.; Castro, B.
EPI_ISL_419234	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M.; Molinero Calamita, M.; González-Esguevillas, M.; Camarero, S.; Pozo, F.; Casas, I.; Jiménez, P.; Jiménez, M.; Zaballos, A.; Monzón, S.; Varona, S.; Juliá, M.; Cuesta, I.; Alonso, C.
EPI_ISL_419235, EPI_ISL_419236, EPI_ISL_419237	Fundacion Jimenez Diaz	Instituto de Salud Carlos III	Iglesias-Caballero, M.; Molinero Calamita, M.; González-Esguevillas, M.; Camarero, S.; Pozo, F.; Casas, I.; Jiménez, P.; Jiménez, M.; Zaballos, A.; Monzón, S.; Varona, S.; Juliá, M.; Cuesta, I.; Fernández, R.
EPI_ISL_419238	HOSPITAL DE CRUCES.	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Aranzamendi, M.
EPI_ISL_419240	HOSPITAL TXAGORRITXU	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Gómez, C
EPI_ISL_419245, EPI_ISL_419247, EPI_ISL_419250	Department of Clinical Pathology, Pamela Youde Nethersole Eastern Hospital	Department of Health Technology and Informatics, Faculty of Health and Social Science, The Hong Kong Polytechnic University	Kenneth Siu-Sing LEUNG, Timothy Ting-Leung NG, Alan Ka-Lun WU, Miranda Chong-Yee YAU, Hiu-Yin LAO, Ming-Pan CHOI, Kingsley King-Gee TAM, Lam-Kwong LEE, Barry Kin-Chung WONG, Alex Yat-Man HO, Kam-Tong YIP, Kwok-Cheung LUNG, Raymond Wai-To LIU, Eugene Yuk-Keung TSO, Wai-Shing LEUNG, Man-Chun CHAN, Yuk-Yung NG, Kit-Man SIN, Kitty Sau-Chun FUNG, Sandy Ka-Yee CHAU, Wing-Kin TO, Tak-Lun QUE, David Ho-Keung SHUM, Shea Ping YIP, Wing Cheong YAM, Gilman Kit-Hang SIU
EPI_ISL_419296	Kochi Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Akihiko Tokaji, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_419297, EPI_ISL_419298	Chiba Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Masakatsu Taira, Yushi Hachisu, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_419299, EPI_ISL_419300	Ishikawa Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Sanae Kuramoto, Eri Nariai, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_419301, EPI_ISL_419302, EPI_ISL_419303, EPI_ISL_419304, EPI_ISL_419305, EPI_ISL_419306, EPI_ISL_419307, EPI_ISL_419308	Saitama Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Michio Shinohara, Tsuyoshi Kishimoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_419309, EPI_ISL_419310, EPI_ISL_419311	Chiba Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Masakatsu Taira, Yushi Hachisu, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_419662, EPI_ISL_419664	Center for Virology, Medical University of Vienna	Berghaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Judith Aberle, Stephan Aberle, Elisabeth Puchhammer-Stöckl, Christoph Bock, Andreas Berghaler
EPI_ISL_419707	HOSPITAL CLINIC	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Marcos, M.A
EPI_ISL_419709	HOSPITAL TXAGORRITXU	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. Gómez, C.
EPI_ISL_420037	NIC Viral Respiratory Unit - Institut Pasteur of Algeria	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Fawzi Derraz
EPI_ISL_420038	Sentinelles network	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420039, EPI_ISL_420040	L'Air du Temps	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_420041	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420042	Service de Biologie clinique	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420043	CMP	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420044	CH Jean de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420045	Sentinelles network	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420046, EPI_ISL_420047	Résidence Villa Caroline	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420048	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Lambert
EPI_ISL_420050	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_420051	Résidence Eleusis	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420052	Résidence les Marines	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420053	CH Jean de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420055	Sentinelles network	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420057	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420058, EPI_ISL_420059, EPI_ISL_420060	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Lambert
EPI_ISL_420061	CMP	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420063	Labo BM - Site de Juvy - Hopital Général	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_420064	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Lambert
EPI_ISL_420069, EPI_ISL_420070	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye, Amadou Alpha Sall
EPI_ISL_420072, EPI_ISL_420073, EPI_ISL_420074	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye , Amadou Alpha Sall
EPI_ISL_420076	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye , Amadou Alpha Sall
EPI_ISL_420077, EPI_ISL_420078	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye , Amadou Alpha Sall
EPI_ISL_420080	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Anna Ivanova, Daria Danilenko
EPI_ISL_420081	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Maria Sergeeva, Anna Ivanova, Daria Danilenko
EPI_ISL_420293	Wildlife Conservation Society, Bronx Zoo	Diagnostic Virology Laboratory, United States Department of Agriculture, National Veterinary Services Laboratories	Patrick K. Mitchell, Renee R. Anderson, Brittany Chilson, Roopa Venugopal, D. G. Diet, Laura B. Goodman, L. Wang, F. Yuan, Y. Fang, Mary Lea Killian, Kerrie Franzen, Nichole Hines Bergeson, Ivan Kuzmin, Melinda Jenkins-Moore, Tod P. Stuber
EPI_ISL_421182, EPI_ISL_421183, EPI_ISL_421184, EPI_ISL_421185, EPI_ISL_421186, EPI_ISL_421187, EPI_ISL_421188, EPI_ISL_421189, EPI_ISL_421190, EPI_ISL_421191, EPI_ISL_421192, EPI_ISL_421193, EPI_ISL_421194, EPI_ISL_421195, EPI_ISL_421196	Department of Clinical Microbiology	GIGA Medical Genomics	Keith Durkin, Maria Artesi, Sébastien Bontems, Raphaël Boreux, Cécile Meex, Pierrette Melin, Marie-Pierre Hayette, Vincent Bours,
EPI_ISL_421221, EPI_ISL_421222, EPI_ISL_421224, EPI_ISL_421226, EPI_ISL_421227, EPI_ISL_421228, EPI_ISL_421230, EPI_ISL_421231, EPI_ISL_421232, EPI_ISL_421233, EPI_ISL_421234, EPI_ISL_421235, EPI_ISL_421236	Hangzhou Center for Diseases Control and Prevention	Hangzhou Center for Diseases Control and Prevention	Jun Li, Haoqiu Wang, Lingfeng Mao, Hua Yu, Xinfen Yu, Zhou Sun, Xin Qian, Shuchang Chen, Junfang Chen, Xuchu Wang
EPI_ISL_421275	Russian State Collection of Viruses	Pathogenic Microorganisms Variability Laboratory	Alexey Shchetinin, Maria Nikiforova, Nadezhda Kuznetsova, Ekaterina Aksanova, Marina Kunda, Natalia Ryzheva, Olga Voronina, Inna Dolzhikova, Daria Grousova, Andrei Botikov, Denis Logunov, Alexander Gintsburg, Vladimir Gushchin
EPI_ISL_421500	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_421501	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert
EPI_ISL_421502, EPI_ISL_421503	Parc des Dames	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_421504, EPI_ISL_421505	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Méline Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert

EPI_ISL_421506			Lambert
EPI_ISL_421507, EPI_ISL_421508	Le Château de Seine-Port	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_421509, EPI_ISL_421510, EPI_ISL_421511	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_421512	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert
EPI_ISL_421513	Service de Biologie clinique	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Christine Lambert
EPI_ISL_421514	Sentinelles network	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_421574	Molecular Diagnostic Services	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S, Ngcapu S, Samsunder N, Lessells R, Chimukangara B, Deforce K, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_421652	Dasman Diabetes Institute	Dasman Diabetes Institute	Fahd Al-Mulla, Rasheeba Iqbal, Sumi John, Ebba Al-Ozairi, Qais Al-Duwairi
EPI_ISL_422407, EPI_ISL_422408, EPI_ISL_422409, EPI_ISL_422409, EPI_ISL_422410, EPI_ISL_422411, EPI_ISL_422412, EPI_ISL_422413, EPI_ISL_422414, EPI_ISL_422415, EPI_ISL_422416, EPI_ISL_422417, EPI_ISL_422418, EPI_ISL_422419, EPI_ISL_422420, EPI_ISL_422421, EPI_ISL_422422	see above	Department of Laboratory Medicine, National Taiwan University Hospital	Shiou-Hwei Yeh, You-Yu Lin, Ya-Yun Lai, Chiao-Ling Li, Shan-Chwen Chang, Pei-Jer Chen, Sui-Yuan Chang
EPI_ISL_422424	Jaber Al Ahmad Al Sabah Hospital	Dasman diabetes Institute	Fahd Al-Mulla, Rasheeba Iqbal, Sumi John, Ebba Al-Ozairi, Qais Al-Duwairi
EPI_ISL_422427	JABER AL AHMAD AL SABAH HOSPITAL - KUWAIT CITY	Dasman Diabetes Institute	Fahd Al-Mulla, Rasheeba Iqbal, Sumi John, Ebba Al-Ozairi, Qais Al-Duwairi
EPI_ISL_422636	The National Institute of Public Health Center for Epidemiology and Microbiology	State Veterinary Institute Prague	Alexander Nagy, Helena Jirincova, Klara Labska, Ludmila Novakova, Olga Starkanova, Dusan Trnka, Jaromira Vecerova
EPI_ISL_424366	Vaccine Research, Development and Application Center, Erciyes University	Gen Era Diagnostics Inc.	Shaikh Terkis Islam Pavel, Hazel Yetiskin, Gunesu Aydin, Can Holyavkin, Muhammet Ali Uygut, Zehra B Dursun, Ilhami Celik, Alper Iseri, Aykut Ozdarendeli
EPI_ISL_424629, EPI_ISL_424630, EPI_ISL_424631, EPI_ISL_424633, EPI_ISL_424636, EPI_ISL_424640, EPI_ISL_424641, EPI_ISL_424642, EPI_ISL_424643, EPI_ISL_424644, EPI_ISL_424647, EPI_ISL_424649, EPI_ISL_424650, EPI_ISL_424652, EPI_ISL_424653, EPI_ISL_424654, EPI_ISL_424655, EPI_ISL_424657, EPI_ISL_424658, EPI_ISL_424660, EPI_ISL_424661, EPI_ISL_424664	see above	Department of Clinical Microbiology	Keith Durkin, Maria Artesi, Sébastien Bontems, Raphaël Boreux, Cécile Meex, Pierrette Melin, Marie-Pierre Hayette, Vincent Bourcier
EPI_ISL_426364	Instituto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran	Instituto Nacional de Ciencias Medicas y Nutricion	Guillermo M. Ruiz-Palacios, Pilar Ramos Cervantes, Violeta Ibarra Gonzalez, Fernando Ledesma Barrientos, Luis Alberto Garcia Andrade, Alfredo Ponce de Leon Garduño, Irma Lopez Martinez, Lucia Hernandez Rivas, Gisela Barreda Badillo, Edgar Mendez Condado, Fabiola Garcés Ayala, Adriana Araiza Rodriguez, José Ernesto Ramirez Gonzalez, Celia Boukadiada, Santiago Avila Rios, Mario Mujica Sanchez, Jose Alfredo Martinez Orozco, Eduardo Becerril Vargas, Joel Armando Vazquez Perez, Victor Hugo Borja Aburto, Concepcion Grajales Muñiz, Cesar Raul Gonzalez Bonilla, Carolina Gonzalez Torres, Francisco Javier Gaytan Cervantes, Jose Esteban Muñoz Medina, Blanca Taborda, Alejandro Sanchez, Pavel Isac, Ricardo Grande, Gloria Vazquez, Francisco Pulido, Carlos Aritas
EPI_ISL_426414	Sir M P Shah Government Medical College	Gujarat Biotechnology Research Centre	Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priteesh Sabara, Apurvash Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savalya, Raghavendra Kumar, Dinesh Kumar, Zubair Sayied, Dipa Kiniarwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Madhvi Joshi, Chaitanya Joshi
EPI_ISL_426415	Sir M P Shah Government Medical College, Jamnagar	Gujarat Biotechnology Research Centre, Gandhinagar	Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priteesh Sabara, Apurvash Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savalya, Raghavendra Kumar, Dinesh Kumar, Zubair Sayied, Dipa Kiniarwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Madhvi Joshi, Chaitanya Joshi
EPI_ISL_426580	Instituto Sabin	Laboratory of Virology	Fernando L Melo, Gustavo Barra, Ticiane H Santa-Rita, Pedro G Mesquita, Icaro A Andrade, Tatuya Nagata, Bergmann M Ribeiro
EPI_ISL_427307, EPI_ISL_427308, EPI_ISL_427310, EPI_ISL_427311, EPI_ISL_427312, EPI_ISL_427314, EPI_ISL_427315, EPI_ISL_427319, EPI_ISL_427320, EPI_ISL_427321, EPI_ISL_427322, EPI_ISL_427323, EPI_ISL_427323, EPI_ISL_427337, EPI_ISL_427338, EPI_ISL_427339	see above	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Maria Sergeeva, Anna Ivanova, Daria Danilenko
EPI_ISL_427349, EPI_ISL_427350, EPI_ISL_427351, EPI_ISL_427352, EPI_ISL_427354, EPI_ISL_427357, EPI_ISL_427359, EPI_ISL_427364, EPI_ISL_427366, EPI_ISL_427370, EPI_ISL_427371, EPI_ISL_427372, EPI_ISL_427379, EPI_ISL_427385, EPI_ISL_427388, EPI_ISL_427390	see above	Department of Clinical Microbiology	Keith Durkin, Maria Artesi, Sébastien Bontems, Raphaël Boreux, Cécile Meex, Pierrette Melin, Marie-Pierre Hayette, Vincent Bourcier
EPI_ISL_427391	Genomic Laboratory (GLAB) (Conjoint lab of Health Directorate of Istanbul and Istanbul Technical University)	Genomic Laboratory (GLAB), Istanbul Technical University	Ilker Karacan, Tugba Kizilboga Akgun, Bugra Agaoglu, Gizem Alkurt, Jale Yildiz, Betsi Köse, Elifnaz Çelik, Arzu Irven, Yasemin Kendir Demirkol, Ozlem Akgun Dogan, Mehtap Aydin, Levent Doganay
EPI_ISL_428209	Laboratory of Molecular Biology, Diagnostyka sp. z o.o.	Laboratory of Recombinant Vaccines	Lukasz Rabalski, Anna Piotrowska-Mietelska, Boguslaw Szewczyk, Krystyna Bienkowska-Szewczyk
EPI_ISL_428229	TSGH-CP molecular lab	TSGH-CP molecular lab	Cherng-Lih Perng, Ming-Jr Jian, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chien-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Ilker Karacan, Tugba Kizilboga Akgun, Bugra Agaoglu, Gizem Alkurt, Jale Yildiz, Betsi Köse, Elifnaz Çelik, Arzu Irven, Yasemin Kendir Demirkol, Ozlem Akgun Dogan, Mehtap Aydin, Levent Doganay
EPI_ISL_428346	Genomic Laboratory (GLAB) (Conjoint lab of Health Directorate of Istanbul and Istanbul Technical University)	Genomic Laboratory (GLAB), Istanbul Technical University	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428347	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428348	Maison de Santé du Val d'Ormeo	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428349	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428350	CH Jean de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428351, EPI_ISL_428352	GH Nord Essonne Service de Biologie clinique	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428353	CH Compiegne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428354	LABM GH nord Essonne de Longjumeau - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428355, EPI_ISL_428356, EPI_ISL_428357	Institut Médico légal- Hop. Poincaré	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428358	CH Jeanne de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428359, EPI_ISL_428360	CH Compiegne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428361	LABM GH nord Essonne de Longjumeau - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428363	GH Nord Essonne Service de Biologie clinique	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428365	LABM GH nord Essonne de Longjumeau - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428366	CH Jeanne de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428367	Cabinet Médical	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_428368	Genomic Laboratory (GLAB) (Conjoint lab of Health Directorate of Istanbul and Istanbul Technical University)	Genomic Laboratory (GLAB), Istanbul Technical University	Ilker Karacan, Tugba Kizilboga Akgun, Bugra Agaoglu, Gizem Alkurt, Jale Yildiz, Betsi Köse, Elifnaz Çelik, Arzu Irven, Yasemin Kendir Demirkol, Ozlem Akgun Dogan, Mehtap Aydin, Levent Doganay
EPI_ISL_428670	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Dinuka Ariyatne, Laksiri Gomes, Deshni Jayathilaka, Ananda Wijewickrama, Eranga Narangoda, Damayanthi Idampitiya, Neelika Malilage
EPI_ISL_428671	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Dinuka Ariyatne, Laksiri Gomes, Deshni Jayathilaka, Diyanath Ranasinghe, Ananda Wijewickrama, Eranga Narangoda, Damayanthi Idampitiya, Neelika Malilage
EPI_ISL_428672, EPI_ISL_428673	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Dinuka Ariyatne, Laksiri Gomes, Deshni Jayathilaka, Diyanath Ranasinghe, Ananda Wijewickrama, Eranga Narangoda, Damayanthi Idampitiya, Neelika Malilage
EPI_ISL_428851, EPI_ISL_428852	FSBSI "Chumakov Federal Scientific Center for Research and Development of Immuno-and-Biological Products of Russian Academy of Sciences"	FSBSI "Chumakov Federal Scientific Center for Research and Development of Immuno-and-Biological Products of Russian Academy of Sciences" & NRC "Kurchatov institute"	Liubov Kozlovskaya, Anastasia Pinayeva, Georgy Ignatyev, Anna Shishova, Aydar Ishmukhametov, Mikhail Rychev, Egor Prokhorchuk, Denis Protsenko, Anastasia Berestovskaya Sesay et al
EPI_ISL_428855	MRCG at LSHTM Genomics lab	MRCG at LSHTM Genomics lab	Joaquin Mendoza, Almudena Rojas, Pablo Mendoza Sesay et al
EPI_ISL_428856	MRCG at LSHTM Genomics Lab	MRCG at LSHTM Genomics lab	Joaquin Mendoza, Almudena Rojas, Pablo Mendoza Sesay et al
EPI_ISL_429256	Health Sciences Technology Park, Avicena, 8, 18016 Granada, Spain	Sequencing and Bioinformatics Service FISABIO-Public Health	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_429852	Centers for Disease Control and Prevention of Lishui	Department of InspectionCenters for Disease Control and Prevention of Lishui	Wang Xiaoguang,Ji Qiaoying,Ji Jiansong,Ye Bifeng,Ye Ling
EPI_ISL_429853	Centers for Disease Control and Prevention of Lishui	Department of InspectionCenters for Disease Control and Prevention of Lishui	Wang Xiaoguang,Ji Qiaoying,Ji Jiansong,Ye Bifeng,Ye Ling
EPI_ISL_429854	Centers for Disease Control and Prevention of Lishui	Department of InspectionCenters for Disease Control and Prevention of Lishui	Wang Xiaoguang,Ji Qiaoying,Ji Jiansong,Ye Bifeng,Ye Ling
EPI_ISL_429968	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mélanie Albert, Marion Barbet, Sylvie Behillil, Mélaine Bizard, Angela Brisebarre, Flora Donati, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Raulin Olivia
EPI_ISL_430067, EPI_ISL_430068, EPI_ISL_430071, EPI_ISL_430072, EPI_ISL_430073, EPI_ISL_430074, EPI_ISL_430075, EPI_ISL_430076, EPI_ISL_430077, EPI_ISL_430078, EPI_ISL_430079, EPI_ISL_430080, EPI_ISL_430081, EPI_ISL_430082, EPI_ISL_430083, EPI_ISL_430084, EPI_ISL_430085, EPI_ISL_430086, EPI_ISL_430087, EPI_ISL_430088, EPI_ISL_430089, EPI_ISL_430090, EPI_ISL_430100, EPI_ISL_430101, EPI_ISL_430102, EPI_ISL_430103, EPI_ISL_430104, EPI_ISL_430105, EPI_ISL_430106, EPI_ISL_430107, EPI_ISL_430108, EPI_ISL_430109, EPI_ISL_430110, EPI_ISL_430111, EPI_ISL_430112	see above	WHO National Influenza Centre Russian Federation	Allam M, Kwenda S, van Heusden P, Khumalo Z, Mohale T, Subramoney K, von Gottberg, A, Ismail A, Bhiman JN
EPI_ISL_430297	National Institute for Communicable Diseases of the	National Institute for Communicable Diseases of the National Health Laboratory Service	

EPI_ISL_430441, EPI_ISL_430442, EPI_ISL_430444	National Health Laboratory Service Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia		
EPI_ISL_430469	Hellenic Pasteur Institute, Public Health Laboratories	Hellenic Pasteur Institute, Public Health Laboratories, Unit of Bioinformatics and Applied Genomics	Vasiliki Pogka, Timokratis Karamitros, Athanasios Kossyvakis, Antonios Kalliaropoulos, Horefti Elina, Evangelidou Maria, Androniki Voulgari-Kokota, Aspasia Kontou, Andreas Mentis	Peng Lijunhu Li, Lizhong Li
EPI_ISL_430722, EPI_ISL_430724, EPI_ISL_430725, EPI_ISL_430728, EPI_ISL_430729, EPI_ISL_430730, EPI_ISL_430731, EPI_ISL_430733, EPI_ISL_430734, EPI_ISL_430735, EPI_ISL_430736, EPI_ISL_430737, EPI_ISL_430738, EPI_ISL_430740, EPI_ISL_430741, EPI_ISL_430742	Chinese PLA Institute for Disease Control and Prevention Center of Scientific Excellence for Influenza Viruses,National Research Centre (NRC), Egypt.	Chinese PLA Institute for Disease Control and Prevention Center of Scientific Excellence for Influenza Viruses,National Research Centre (NRC), Egypt.	Mohamed Ahmed Ali, Ahmed Kandeil, Ahmed Mostafa, Rabeh El-Shesheny, Mahmoud Shehata, Wael Roshy, Shymaa Showky Ahmed , Amal Naguib, Nancy M. El Guindy, Mokhtar Gomaa, Ahmed El-Taweel, Ahmed E Kayed, Yassmin Moatasim, Omnia Kutak, Sara Mahmoud, Mina Kamel, Abo Shama, M Noura, Mohamed El Sayes	Cherng-Lih Perng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chien-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang
EPI_ISL_430819	Center of Scientific Excellence for Influenza Viruses,National Research Centre (NRC), Egypt.	Center of Scientific Excellence for Influenza Viruses,National Research Centre (NRC), Egypt.	Mohamed Ahmed Ali, Ahmed Kandeil, Ahmed Mostafa, Rabeh El-Shesheny, Mahmoud Shehata, Wael Roshy, Shymaa Showky Ahmed , Amal Naguib, Mokhtar Gomaa, Ahmed El-Taweel, Ahmed E Kayed, Yassmin Moatasim, Omnia Kutak, Sara Mahmoud, Mina Kamel, Abo Shama, M Noura, Mohamed El Sayes, Nancy M. El Guindy	
EPI_ISL_430820	Center of Scientific Excellence for Influenza Viruses, National Research Centre (NRC), Egypt.	Virus Research Laboratory, Department of Zoology, Osmania University,Hyderabad,India	Muttineni Radhakrishna, Nagamani K, Thrilok Chander B, Raja Rao M, Kalyani Putty, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay Steven E. Bosinger, Rama Amara	
EPI_ISL_431101	Department of Microbiology,Gandhi Medical College and Hospital	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad	Nagamani K, Muttineni Radhakrishna, Thrilok Chander B, Raja Rao M, Kalyani Putty, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay Steven E. Bosinger, Rama Amara	
EPI_ISL_431102	Department of MicroBiology,Gandhi Medical College and Hospital,Secendrabad,Hyderabad,India	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad	Nagamani K, Muttineni Radhakrishna, Thrilok Chander B, Raja Rao M, Kalyani Putty, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay, Steven E. Bosinger, Rama Amara	
EPI_ISL_431103	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad, India	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad, India	Nagamani K, Muttineni Radhakrishna, Thrilok Chander B, Raja Rao M, Kalyani Putty, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay, Steven E. Bosinger, Rama Amara	
EPI_ISL_431117	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad, India	Department of Microbiology, Gandhi Medical College and Hospital, Secendrabad, Hyderabad, India	Thrilok Chander B, Muttineni Radhakrishna, Nagamani K, Raja Rao M, Kalyani Putty, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay, Steven E. Bosinger, Rama Amara	
EPI_ISL_431118, EPI_ISL_431180, EPI_ISL_431240, EPI_ISL_431782, EPI_ISL_431783, EPI_ISL_431784, EPI_ISL_431785	Fujian Center for Disease Control and Prevention	Fujian Center for Disease Control and Prevention	Lin Qi, Huang Zhimiao, Zhang Yanhua, Weng Yuwei	
EPI_ISL_434366, EPI_ISL_434369, EPI_ISL_434371	Hospital AZ Rivierenland	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony	
EPI_ISL_434372, EPI_ISL_434373, EPI_ISL_434375, EPI_ISL_434376, EPI_ISL_434377, EPI_ISL_434378, EPI_ISL_434379, EPI_ISL_434380, EPI_ISL_434381, EPI_ISL_434383	Hospital AZ Rivierenland	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony	
EPI_ISL_434384	Hospital AZ Rivierenland	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony	
EPI_ISL_434533	Area de Salud Alajuela Sur	Incensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_434534	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control and Prevention, China CDC, Yunnan Provincial CDC	Wenjie Tan, Roujian Lu, Wenling Wang, Peihua Niu, Huijuan Wang, Baoying Huang, Li Zhao, Fei Ye, Guizhen Wu	
EPI_ISL_434535	Area de Salud Alajuela Sur	Incensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_434538	COOPESAIN	Incensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_434539	Area de Salud Orotina	Incensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_434541, EPI_ISL_434543, EPI_ISL_434545, EPI_ISL_434546, EPI_ISL_434547, EPI_ISL_434548, EPI_ISL_434549, EPI_ISL_434551	Puerto Rico Department of Health	Centers for Disease Control and Prevention, Dengue Branch	Gilberto A. Santiago, Glenda Gonzalez, Betzabel Flores, Keyla Charriez, Fabiola Cruz, Chaney Kalinich, Joseph Fauver, Jessica I. Falcon, Nathan Grubaugh, Jorge L. Munoz-Jordan	
EPI_ISL_434572	The National Institute of Public Health Center for Epidemiology and Microbiology	The National Institute of Public Health Center for Epidemiology and Microbiology	Alexander Nagy, Helena Jirincova, Ludmila Novakova, Dusan Trnka, Jaromira Vecerova	
EPI_ISL_435045	Laboratory of Applied Genetics	RSE "National Center for Biotechnology"	Alexandr Shevtsov, Ilyas Akhmetkaliyev, Viktoriya Lutsay, Asylulan Amirkazin, Ruslan Kalendar, Yerlan Ramanculov	
EPI_ISL_435049	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Neha Rajpara, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435050	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Vasudha Sharma, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435051	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Pooya Dosh, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435052	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Vasudha Sharma, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435053	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Vasudha Sharma, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435055	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pratibha Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Vasudha Sharma, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435056	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Vasudha Sharma, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_435145	Ospedale Civile Giuseppe Mazzini	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435146, EPI_ISL_435147	Villa Serena del Dr. Leonardo Petrucci	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435148	Ospedale SS Annunziata	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435149	SERVIZIO DI IGIENE E SANITÀ PUBBLICA ASL Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435150, EPI_ISL_435151	Ospedale SS Annunziata	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435152	Servizio di Igiene, Epidemiologia e Sanità Pubblica (SIESP) Avezzano	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435153, EPI_ISL_435154, EPI_ISL_435155	SERVIZIO DI IGIENE E SANITÀ PUBBLICA ASL Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Maracci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G	
EPI_ISL_435281	Medistra Hospital Jakarta	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Uduhpuriti, Hadimay Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio	
EPI_ISL_435282, EPI_ISL_435283	RS Pondok Indah Hospital - Pondok Indah	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Uduhpuriti, Hadimay Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio	
EPI_ISL_435284	Central Virology Laboratory, Israel Ministry of Health	Central Virology Laboratory, Israel Ministry of Health	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Orna Mor, Ella Mendelson, Michal Mandelboim	
EPI_ISL_435286	Central Virology Laboratory, Israel Ministry of Health	Central Virology Laboratory, Israel Ministry of Health	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Orna Mor, Ella Mendelson, Michal Mandelboim	
EPI_ISL_435289	Central Virology Laboratory, Israel Ministry of Health	Central Virology Laboratory, Israel Ministry of Health	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Orna Mor, Ella Mendelson, Michal Mandelboim	
EPI_ISL_435291	Central Virology Laboratory, Israel Ministry of Health	Central Virology Laboratory, Israel Ministry of Health	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Ella Mendelson, Michal Mandelboim	
EPI_ISL_435292	Central Virology Laboratory, Israel Ministry of Health	Central Virology Laboratory, Israel Ministry of Health	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Ella Mendelson, Michal Mandelboim, Orna Mor	
EPI_ISL_435303	National Hospital of Tropical Diseases	Oxford University Clinical Research Unit, Hanoi, Vietnam	Nguyen Thi Tam, Van Dinh Trang, Nguyen Thu Trang, Nguyen Thi Ngoc Diep, Le Nguyen Minh Hoa, Pham Ngoc Thach, H. Rogier van Doorn, on behalf of the OUCRU COVID-19 research group	
EPI_ISL_435305	National Hospital of Tropical Diseases	Oxford University Clinical Research Unit, Hanoi, Vietnam	Nguyen Thi Tam, Van Dinh Trang, Nguyen Thu Trang, Nguyen Thi Ngoc Diep, Le Nguyen Minh Hoa, Pham Ngoc Thach, H. Rogier van Doorn, on behalf of the OUCRU COVID-19 research group	
see above	Virological Research Group, Szentágothai Research Centre	Bioinformatics Research Group, Szentágothai Research Centre	Péter Urbán, Endre Gábor Tóth, Gábor Kemenesi, Róbert Herczeg, Attila Gyenesi, Ferenc Jakab	
EPI_ISL_436099, EPI_ISL_436101, EPI_ISL_436102, EPI_ISL_436104	TSGH-CP molecular lab	TSGH-CP molecular lab	Cherng-Lih Perng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chien-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang	

EPI_ISL_436106, EPI_ISL_436107, EPI_ISL_436108	District Surveillance Unit	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS) Pathogen Sequencing Lab, National Institute for Biomedical Research (INRB)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkatasamy, Anita Desai, Ravi Vasantha puram Placide Mbala-Kingebeni, Edith Nkwembe, Eddy Kinganda-Lusamaki, Amuri Aziza, Franciscia Muyembe Matewe, Catherine Pratt, Matthias Pauthner, Josh Quick, Allison Black, James Hadfield, Trevor Bedford, Ian Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum Giandhari J. Pillay S, Lessells R, Chimukangara B, Deforche K, Tegally H, Wilkinson E, de Oliveira T A. Pavlenko, O. Guskova, K. Klimina, V. Veselovsky, A. Manolov, D. Fedorov, V. Govorun and E. Ilina
EPI_ISL_436684, EPI_ISL_436686 EPI_ISL_436715	KRISP, KZN Research Innovation and Sequencing Platform Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	KRISP, KZN Research Innovation and Sequencing Platform Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	A. Pavlenko, O. Guskova, K. Klimina, V. Veselovsky, A. Manolov, D. Fedorov, V. Govorun and E. Ilina
EPI_ISL_436716	Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	A. Pavlenko, O. Guskova, K. Klimina, V. Veselovsky, A. Manolov, D. Fedorov, V. Govorun and E. Ilina
EPI_ISL_436717	Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	Genomics and Computational Biology Lab, Scientific Research Institute of Physical-Chemical Medicine, FMBA of Russia	A. Pavlenko, O. Guskova, K. Klimina, V. Veselovsky, A. Manolov, D. Fedorov, V. Govorun and E. Ilina
EPI_ISL_436718 EPI_ISL_436719, EPI_ISL_436720, EPI_ISL_436721, EPI_ISL_436722	Ospedale Regionale San Salvatore Ospedale Civile S. Liberatore di Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale" Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G
EPI_ISL_436723 EPI_ISL_436724 EPI_ISL_436725 EPI_ISL_436726, EPI_ISL_436727, EPI_ISL_436729	Ospedale Civile Giuseppe Mazzini Ospedale Civile S. Liberatore di Atri RSA/RP Villa San Giovanni - Gruppo Edos	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale" Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale" Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale" Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G
EPI_ISL_436730	Servizio di igiene epidemiologia e sanità pubblica (Siesp) Chieti	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G
EPI_ISL_436731, EPI_ISL_436732	Ospedale Civile S. Liberatore di Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Ancora M, Curini V, Mangone I, Rinaldi A, Di Pasquale A, Cammà C, Puglia I, Savini G
EPI_ISL_436939, EPI_ISL_436942, EPI_ISL_436943, EPI_ISL_436944, EPI_ISL_436945, EPI_ISL_436946, EPI_ISL_436947, EPI_ISL_436948, EPI_ISL_436949, EPI_ISL_436950, EPI_ISL_436952, EPI_ISL_436953, EPI_ISL_436954, EPI_ISL_436956, EPI_ISL_436957, EPI_ISL_436958, EPI_ISL_436959, EPI_ISL_436960, EPI_ISL_436961	Bioinforexerts, LLC	Amy Feehan, David J. Nolan, Rebecca Rose, Sissy Cross, David Moraga Amador, Tong Yang, Luke Caruso, Wayra Navia, Lydia Von Borstel, Xiao Hui Zhou, Julia-Garcia-Diaz, Susanna L. Lamers	
EPI_ISL_437187	Siloam Hospitals	Institute of Tropical Disease, Universitas Airlangga	Kazufumi Shimizu, Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Maria M Padmidewi, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Y Meliana, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Maria I Luisda
EPI_ISL_437188	RSUD Dr. Soetomo	Institute of Tropical Disease, Universitas Airlangga	Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Joni Wahyuhadi, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Y Meliana, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Luisda
EPI_ISL_437189 EPI_ISL_437190, EPI_ISL_437191	Pusat Pertamina Hospital RS Pondok Indah Hospital - Pondok Indah	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Yudhaputri, Ridhat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_437192	Mitra Keluarga Kelapa Gading Hospital	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Yudhaputri, Ridhat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_437194	Viral Respiratory Lab, National Institute for Biomedical Research (INRB)	Pathogen Sequencing Lab, National Institute for Biomedical Research (INRB)	Edison Johar, Frilasita A Yudhaputri, Ridhat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_437197	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Karl Kashofer, Peter Regitnig, Martin Zacharias, Gregor Gorkiewicz
EPI_ISL_437198, EPI_ISL_437199, EPI_ISL_437200, EPI_ISL_437201, EPI_ISL_437202	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Karl Kashofer, Peter Regitnig, Martin Zacharias, Gregor Gorkiewicz
EPI_ISL_437203	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Diagnostic- and Research Institute of Pathology, Medical University of Graz	Karl Kashofer, Peter Regitnig, Martin Zacharias, Gregor Gorkiewicz
EPI_ISL_437298, EPI_ISL_437299, EPI_ISL_437300, EPI_ISL_437301, EPI_ISL_437302, EPI_ISL_437303	Viral Respiratory Lab, National Institute for Biomedical Research (INRB)	Pathogen Sequencing Lab, National Institute for Biomedical Research (INRB)	Karl Kashofer, Peter Regitnig, Martin Zacharias, Gregor Gorkiewicz
EPI_ISL_437339	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Placide Mbala-Kingebeni, Edith Nkwembe, Eddy Kinganda-Lusamaki, Amuri Aziza, Franciscia Muyembe Matewe, Catherine Pratt, Matthias Pauthner, Josh Quick, Allison Black, James Hadfield, Trevor Bedford, Ian Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum
EPI_ISL_437440	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437442	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437445	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437446	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437447	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437448	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437449	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437450	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437452	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437453	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437454	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dipeshwari Shewale, Chaitanya Joshi, Neelam Nathani, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_437455, EPI_ISL_437460, EPI_ISL_437461, EPI_ISL_437462, EPI_ISL_437463, EPI_ISL_437464, EPI_ISL_437465, EPI_ISL_437466, EPI_ISL_437467, EPI_ISL_437468, EPI_ISL_437469, EPI_ISL_437470, EPI_ISL_437471, EPI_ISL_437472, EPI_ISL_437473, EPI_ISL_437474, EPI_ISL_437475, EPI_ISL_437476	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAU)	Sharif Hala,Raeeca Naeem,Sara Mfarje,Arnab Pain	
EPI_ISL_437481, EPI_ISL_437482, EPI_ISL_437483, EPI_ISL_437484, EPI_ISL_437485, EPI_ISL_437486, EPI_ISL_437487, EPI_ISL_437488, EPI_ISL_437489, EPI_ISL_437490, EPI_ISL_437491, EPI_ISL_437492, EPI_ISL_437493, EPI_ISL_437494, EPI_ISL_437495, EPI_ISL_437496, EPI_ISL_437497	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAU)	Sara Mfarje,Raeeca Naeem,Sharif Hala,Amit Subudhi,Fathia Rached,Arnab Pain	
EPI_ISL_437626	Department of Microbiology,Gandhi Medical College and Hospital	Department of Veterinary Biotechnology, College of Veterinary Science, Rajendranagar, PV Narasimha Rao Telengana Veterinary University	Kalyani Putty, Muttineni Radhakrishna, Nagamani K, Thriok Chander B, Raja Rao M, Ravikumar P, Sunitha P, Pankaj Singh D, Anand Kumar K, Amit A. Upadhyay, Steven Bosinger, Rama Amara



EPI_ISL_444481	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Saiyed, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444482	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Neha Rajpara, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444483	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Afzal Ansari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444484	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Neelam Nathani, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444486	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Arni Chaudhari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444493	Departamento de Laboratorios de Salud Pública (DLSP, División Epidemiología, Ministerio de Salud Pública)	Facultad de Ciencias (Sección Genética Evolutiva, Sección Virología).	Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Arni Chaudhari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_444496	Guangzhou Eighth People's Hospital (Jiahe Sector)	Institute of Human Virology, Zhongshan School of Medicine, Sun Yat-sen University	Panza,Y., Delflaro,A., Ramos,N., Frabasile,S., Calleros,L., Techer,C., Greco,S., Fuques,E., Goni,N., Coppola,L., Ramos,V., Chiparelli,H., Arbiza,J. and Perez,R.
EPI_ISL_4444994, EPI_ISL_4444995, EPI_ISL_4444996, EPI_ISL_4444998, EPI_ISL_445000	Naval Health Research Center	Naval Medical Research Center Biological Defense Research Directorate	Junsong Zhang, Fei Yu, Jun Liu, Huiman Fan, Ruosu Ying, Feng Huang, Ting Pan, Bingfeng Liu, Yiwen Zhang, Xu Zhang, Mang Shi, Fengyu Hu, Fang Li, Kai Deng, Hui Zhang
EPI_ISL_445078, EPI_ISL_445079, EPI_ISL_445080, EPI_ISL_445081, EPI_ISL_445082, EPI_ISL_445083, EPI_ISL_445084	Baylor College of Medicine	Baylor College of Medicine: HGSC	Logan Voegtle, Regina Cer, Dessiree Pena-Gomez, Adrian Paskey,Kyle Long, Roger Pan, Melinda Balansky-Ames, Chris Myers, Ewell Hollis, Nathaniel Christy, Kimberly Bishop-Lilly
EPI_ISL_445214, EPI_ISL_445215, EPI_ISL_445216	DNA Solution Ltd.	DNA Solution Ltd.	Vasanthi Avadhana, Erin Nicholson, David Henke, Pedro Piedra, Harsha Doddapaneni, Donna Muzny, Qingchang Meng, Hsu Chao, Zeineen Momir, Hua Shen, George Weissenberger, Kavya Kottapalli, Yimiti Meilheerguli, Sejal Salvi, Ginger Metcalf, Vipin Menon, Sara J.J. Cregeen, Matthew C. Ross, Tulin Ayvaz, Richard Sungang, Kristi L. Hoffman, Matthew Wong, Joseph F. Petrosino
EPI_ISL_445219	Universidad del Valle, Laboratorio de Microbiología, VIREM	Universidad del Valle, Universidad Nacional de Colombia-Sede Palmira, International Center for Tropical Agriculture	Md. Imran Khan, Kazi Nadim Hasan, Abu Sufian, Mohammed Nafiz Imtiaz Poloi, Abdul Khaleque, Mizanur Rahman, MSM Chowdhury, Hasan Ul Haider, Mamudul Hasan Razu, Mala Khan, Mohammad Faiez Alam Rabbi
EPI_ISL_445220	Laboratory for Respiratory Viruses, "Cantacuzino" National Military-Medical Institute for Research and Development	Cantacuzino Institute	Beatriz Parra, Diana López-Alvarez, Wilmer J. Cuellar
EPI_ISL_445243	Laboratory for Respiratory Viruses, Cantacuzino National Military-Medical Institute for Research and Development	Cantacuzino Institute	M.Lazar, L'Ustea, A.Cretu
EPI_ISL_447030	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	M.Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Anjali Rajwar, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447031	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447033	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447034	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447035	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Apurvashin Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447038	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447039	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447042	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447043	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447044	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447045	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447048	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447053	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447054	Cantacuzino National Military-Medical Institute for Research and Development	Cantacuzino Institute	Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447251	Central Virology Laboratory	Central Virology Laboratory	Neta Zuckerman, Efrat Bucris, Oran Erster, Danit Sofer, Orna Mor, Ella Mendelson, Michal Mandelboim
EPI_ISL_447252, EPI_ISL_447253, EPI_ISL_447255, EPI_ISL_447257	TSGH-CP molecular lab	TSGH-CP molecular lab	Cherng-Lih Peng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chen-Wen Chen, Sheng-Chang Kiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang
EPI_ISL_447281, EPI_ISL_447282, EPI_ISL_447283, EPI_ISL_447284, EPI_ISL_447285, EPI_ISL_447286, EPI_ISL_447287, EPI_ISL_447288, EPI_ISL_447289, EPI_ISL_447290, EPI_ISL_447291, EPI_ISL_447292, EPI_ISL_447293, EPI_ISL_447294, EPI_ISL_447295, EPI_ISL_447296, EPI_ISL_447297, EPI_ISL_447299, EPI_ISL_447300, EPI_ISL_447301, EPI_ISL_447302, EPI_ISL_447303, EPI_ISL_447305, EPI_ISL_447306, EPI_ISL_447307, EPI_ISL_447308, EPI_ISL_447310	see above	Microbiology Division, Barzilai University Medical Center	Stem Lab
EPI_ISL_447534	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447535	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447536	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447537	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447542	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447543	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Panzer,Y., Delflaro,A., Ramos,N., Frabasile,S., Calleros,L., Techer,C., Greco,S., Fuques,E., Goni,N., Coppola,L., Ramos,V., Chiparelli,H., Arbiza,J. and Perez,R.

EPI_ISL_447543	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	S Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Dipeshwari Shewale, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447544	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Pooya P Doshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447545	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Pooya P Doshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447546	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Pooya P Doshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447548	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Akanksha Verma, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447551	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Maharsi Pandya, Amit Kanani, Akanksha Verma, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447552	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447553	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447554	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447555	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Dipa Kinariwala, Disha Patel, Binita Aring, Neeta Khandelwal, Geeta Vaghela, Sonia Barve, Bhavesh Modi, Kairavi Joshi, Gaurishankar Shrimali, Nidhi Sood, Pranay Shah, R D Dixit, Snehal Bagatharia, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Priti Pandita, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_447577	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Namami Gaur, Sakshi Shambhani, Lamuk Zaveri, Shagufa Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Tallapaka, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_447592, EPI_ISL_447593	TSGH-CP molecular lab	TSGH-CP molecular lab	TSGH-CP molecular lab	Cheng-Lih Peng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chien-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang
EPI_ISL_447614, EPI_ISL_447615, EPI_ISL_447616, EPI_ISL_447617, EPI_ISL_447618, EPI_ISL_447619, EPI_ISL_447620, EPI_ISL_447621, EPI_ISL_447622	Department of Laboratory Medicine, National Taiwan University Hospital	Microbial Genomics Core Lab, National Taiwan University Centers of Genomic and Precision Medicine	Shiou-Hwei Yeh, You-Yu Lin, Ya-Yun Lai, Chiao-Ling Li, Shan-Chwen Chang, Pei-Jer Chen, Sui-Yuan Chang	
EPI_ISL_447734, EPI_ISL_447735, EPI_ISL_447736, EPI_ISL_447738, EPI_ISL_447739, EPI_ISL_447740, EPI_ISL_447741, EPI_ISL_447742, EPI_ISL_447743, EPI_ISL_447744, EPI_ISL_447745, EPI_ISL_447746, EPI_ISL_447747, EPI_ISL_447748, EPI_ISL_447750, EPI_ISL_447754	see above	Grupa de Investigaciones Microbiologicas-UR (GIMUR), Departamento de Biología, Facultad de Ciencias Naturales, Universidad del Rosario, Bogotá, Colombia	Juan David Ramirez, Carolina Florez, Marina Muñoz, Carolina Hernandez, Adriana Castillo, Sergio Castañeda, Nathalia Ballesteros, David Martinez, Laura Vega, Jesús E. Jaimes, Sergio González, Angelica Rico, Lissett Pardo, Esther C. Barros, Martha L. Ospina, Aníbal A. Téherán, Ana S. González-Reiche, Matthew M. Hernandez, Emilia Mía Sordillo, Viviana Simon, Harm van Bakel, Alberto Paniz-Mondolfi	
EPI_ISL_447755, EPI_ISL_447756, EPI_ISL_447757, EPI_ISL_447759, EPI_ISL_447760, EPI_ISL_447761, EPI_ISL_447762, EPI_ISL_447763, EPI_ISL_447765, EPI_ISL_447766, EPI_ISL_447767, EPI_ISL_447768, EPI_ISL_447769, EPI_ISL_447771, EPI_ISL_447774, EPI_ISL_447775, EPI_ISL_447777, EPI_ISL_447778, EPI_ISL_447779, EPI_ISL_447780, EPI_ISL_447800, EPI_ISL_447803, EPI_ISL_447804, EPI_ISL_447805, EPI_ISL_447806, EPI_ISL_447807, EPI_ISL_447808, EPI_ISL_447809, EPI_ISL_447810, EPI_ISL_447812, EPI_ISL_447813, EPI_ISL_447816, EPI_ISL_447817	see above	Instituto Nacional de Salud, Bogotá, Colombia	Juan David Ramirez, Carolina Florez, Marina Muñoz, Carolina Hernandez, Adriana Castillo, Sergio Castañeda, Nathalia Ballesteros, David Martinez, Laura Vega, Jesús E. Jaimes, Sergio González, Angelica Rico, Lissett Pardo, Esther C. Barros, Martha L. Ospina, Aníbal A. Téherán, Ana S. González-Reiche, Matthew M. Hernandez, Emilia Mía Sordillo, Viviana Simon, Harm van Bakel, Alberto Paniz-Mondolfi	
EPI_ISL_447790, EPI_ISL_447791, EPI_ISL_447792, EPI_ISL_447793, EPI_ISL_447794, EPI_ISL_447795, EPI_ISL_447796, EPI_ISL_447797, EPI_ISL_447798, EPI_ISL_447799, EPI_ISL_447800, EPI_ISL_447802, EPI_ISL_447803, EPI_ISL_447804, EPI_ISL_447805, EPI_ISL_447806, EPI_ISL_447807, EPI_ISL_447808, EPI_ISL_447809, EPI_ISL_447810, EPI_ISL_447812, EPI_ISL_447813, EPI_ISL_447816, EPI_ISL_447817	see above	Grupa de Investigaciones Microbiologicas-UR (GIMUR), Departamento de Biología, Facultad de Ciencias Naturales, Universidad del Rosario, Bogotá, Colombia	Juan David Ramirez, Carolina Florez, Marina Muñoz, Carolina Hernandez, Adriana Castillo, Sergio Castañeda, Nathalia Ballesteros, David Martinez, Laura Vega, Jesús E. Jaimes, Sergio González, Angelica Rico, Lissett Pardo, Esther C. Barros, Martha L. Ospina, Aníbal A. Téherán, Ana S. González-Reiche, Matthew M. Hernandez, Emilia Mía Sordillo, Viviana Simon, Harm van Bakel, Alberto Paniz-Mondolfi	
EPI_ISL_447854	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Tallapaka, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_447855	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Lamuk Zaveri, Shagufa Khan, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Tallapaka, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_448222	Pasteur Institute Ho Chi Minh City	National Key Laboratory of Gene Technology, Institute of Biotechnology, Vietnam Academy of Science and Technology	National Key Laboratory of Gene Technology, Institute of Biotechnology, Vietnam Academy of Science and Technology	Le Tung Lam, Nguyen Trung Hieu, Nguyen Hong Thao, Nguyen Thi Ngoc Thao, Huynh Thi Kim Loan, Luu Thuong Tien, Tran Huyen Linh, Pham Duy Quang, Luong Chan Quang, Cao Minh Thang, Nguyen Vu Thuong, Hoang Ha, Chu Hoang Ha, Phan Trong Lan, Truong Nam Hai
EPI_ISL_450241, EPI_ISL_450242, EPI_ISL_450243, EPI_ISL_450244, EPI_ISL_450245, EPI_ISL_450248, EPI_ISL_450249, EPI_ISL_450250, EPI_ISL_450251, EPI_ISL_450252, EPI_ISL_450255, EPI_ISL_450259, EPI_ISL_450260, EPI_ISL_450261, EPI_ISL_450262, EPI_ISL_450263, EPI_ISL_450264, EPI_ISL_450265, EPI_ISL_450267, EPI_ISL_450271, EPI_ISL_450272, EPI_ISL_450274, EPI_ISL_450275, EPI_ISL_450276, EPI_ISL_450277, EPI_ISL_450278, EPI_ISL_450279, EPI_ISL_450280, EPI_ISL_450281, EPI_ISL_450282, EPI_ISL_450283, EPI_ISL_450284, EPI_ISL_450285, EPI_ISL_450286, EPI_ISL_450287, EPI_ISL_450288, EPI_ISL_450289, EPI_ISL_450290, EPI_ISL_450291, EPI_ISL_450292, EPI_ISL_450293	see above	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Maria Sergeeva, Anna Ivanova, Tamila Musseva, Ksenia Komissarova, Maria Timofeeva, Veronika Eder, Maria Pisareva, Daria Danilenko Dr V A Potdar, Dr ML Choudhary, Dr Priya Abraham, V. Vipat, S. Jadhav, U. Saha, H. Kengle, A. Ahwale, A. Jagtap, A. Gondhalikar, V. Malik, N. Srivastava, S. Digraskar, P. Malsane, S. Hundekar, K. Patel, Yogesh Balakartik, M. Kakade, S. Jadhav, R. Gunjikar, V. Awtade, S. Bhowekar, P. Shinde, S. Salve, B. Minhas S. Bharadwaj, H. Kaushal Y. Gurav, S. Tomar, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Renu Sudhakar, Somesh Gorde, Gangamula Srinivas Reddy, Sujoy Deb, Swati Bayanya, Zeba Rizvi, Rakesh K Mishra	
EPI_ISL_450322	NIV Pune	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dr V A Potdar, Dr ML Choudhary, Dr Priya Abraham, V. Vipat, S. Jadhav, U. Saha, H. Kengle, A. Ahwale, A. Jagtap, A. Gondhalikar, V. Malik, N. Srivastava, S. Digraskar, P. Malsane, S. Hundekar, K. Patel, Yogesh Balakartik, M. Kakade, S. Jadhav, R. Gunjikar, V. Awtade, S. Bhowekar, P. Shinde, S. Salve, B. Minhas S. Bharadwaj, H. Kaushal Y. Gurav, S. Tomar, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Renu Sudhakar, Somesh Gorde, Gangamula Srinivas Reddy, Sujoy Deb, Swati Bayanya, Zeba Rizvi, Rakesh K Mishra
EPI_ISL_450323	NIV Pune	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dr V A Potdar, Dr ML Choudhary, Dr Priya Abraham, V. Vipat, S. Jadhav, U. Saha, H. Kengle, A. Ahwale, A. Jagtap, A. Gondhalikar, V. Malik, N. Srivastava, S. Digraskar, P. Malsane, S. Hundekar, K. Patel, Yogesh Balakartik, M. Kakade, S. Jadhav, R. Gunjikar, V. Awtade, S. Bhowekar, P. Shinde, S. Salve, B. Minhas S. Bharadwaj, H. Kaushal Y. Gurav, S. Tomar, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Renu Sudhakar, Somesh Gorde, Gangamula Srinivas Reddy, Sujoy Deb, Swati Bayanya, Zeba Rizvi, Rakesh K Mishra
EPI_ISL_450324	NIV Pune	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dr V A Potdar, Dr ML Choudhary, Dr Priya Abraham, V. Vipat, S. Jadhav, U. Saha, H. Kengle, A. Ahwale, A. Jagtap, A. Gondhalikar, V. Malik, N. Srivastava, S. Digraskar, P. Malsane, S. Hundekar, K. Patel, Yogesh Balakartik, M. Kakade, S. Jadhav, R. Gunjikar, V. Awtade, S. Bhowekar, P. Shinde, S. Salve, B. Minhas S. Bharadwaj, H. Kaushal Y. Gurav, S. Tomar, Payel Mukherjee, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Renu Sudhakar, Somesh Gorde, Gangamula Srinivas Reddy, Sujoy Deb, Swati Bayanya, Zeba Rizvi, Rakesh K Mishra
EPI_ISL_450325	NIV Pune	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dr V A Potdar, Dr ML Choudhary, Dr Priya Abraham, V. Vipat, S. Jadhav, U. Saha, H. Kengle, A. Ahwale, A. Jagtap, A. Gondhalikar, V. Malik, N. Srivastava, S. Digraskar, P. Malsane, S. Hundekar, K. Patel, Yogesh Balakartik, M. Kakade, S. Jadhav, R. Gunjikar, V. Awtade, S. Bhowekar, P. Shinde, S. Salve, B. Minhas S. Bharadwaj, H. Kaushal Y. Gurav, S. Tomar, Payel Mukherjee, Priya Singh, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhani, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Renu Sudhakar, Somesh Gorde, Gangamula Srinivas Reddy, Sujoy Deb, Swati Bayanya, Zeba Rizvi, Rakesh K Mishra
EPI_ISL_450341	Bangladesh Institute of Tropical & Infectious Diseases, COVID-19 Testing Laboratory	Basic and Applied Research on Jute Project	Md. Sabbir Hossain, Rasel Ahmed, Shah Md Tamim Kabir, Emdadul Mannan Emdad, Md. Nazmul Haq Ronny, Eafetkar Ahmed Rana, Paritous Kumar Biswas, M A Hassan Chowdhury, Md. Shakeel Ahmed, Md. Samiul Haque, Md. Monjurul Alam, Md. Shariful Haider, A M S Anwarul Huq, Md. Shahidul Islam, Goutam Buddha Das, AMAM Zonaed Siddiki	
EPI_ISL_450343	Bangladesh Institute of Tropical & Infectious Diseases, COVID-19 Testing Laboratory	Basic and Applied Research on Jute Project	Md. Sabbir Hossain, Rasel Ahmed, Shah Md Tamim Kabir, Emdadul Mannan Emdad, Md. Nazmul Haq Ronny, Eafetkar Ahmed Rana, Paritous Kumar Biswas, M A Hassan Chowdhury, Md. Shakeel Ahmed, Md. Samiul Haque, Md. Monjurul Alam, Md. Shariful Haider, A M S Anwarul Huq, Md. Shahidul Islam, Goutam Buddha Das, AMAM Zonaed Siddiki	
EPI_ISL_450509, EPI_ISL_450510, EPI_ISL_450511, EPI_ISL_450512, EPI_ISL_450515	Rafik Hariri University Hospital	Rafik Hariri University Hospital	Rita Feghali	
EPI_ISL_450724, EPI_ISL_450725, EPI_ISL_450726, EPI_ISL_450727, EPI_ISL_450728, EPI_ISL_450729, EPI_ISL_450730	Hospital AZ Rivierenland	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony	
EPI_ISL_450746	Laboratory of Molecular Biology, Diagnostyka sp. z o.o.	Laboratory of Recombinant Vaccines	Lukasz Rabalski, Anna Piotrowska-Mietelska, Maciej Kosinski, Boguslaw Szewczyk, Krystyna Bienkowska-Szewczyk	

EPI_ISL_450781	Government Medical College-Bhavnagar	Gujarat Biotechnology Research Centre	Kairavi Desai, Saklai Malek, Shirish Patel, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Akanksha Verma, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450783	Government Medical College-Bhavnagar	Gujarat Biotechnology Research Centre	Shirish Patel, Kairavi Desai, Saklai Malek, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Neha Rajpara, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450784	Government Medical College-Bhavnagar	Gujarat Biotechnology Research Centre	Zarna Patel, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450785	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Prakash Modi, Sejal Antala, Manish Patti, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Sejal Antala, Manish Patti, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Afzal Ansari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450786	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Sejal Antala, Manish Patti, Prakash Modi, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Neelan Nathani, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450788	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Zarna Patel, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450789	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Armaan Chaudhari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450790	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Zarna Patel, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Prakash Modi, Sejal Antala, Manish Patti, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Armaan Chaudhari, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450791	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Zarna Patel, Apurvasinh Puvar, Janvi Raval, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dimesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Prakash Modi, Sejal Antala, Manish Patti, Ramesh Pandit, Tejas Shah, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Siddhant Kumar, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_450839	COVID-19 Laboratory Centre for Advanced Research in Sciences (CARS), University of Dhaka, Dhaka-1000, Bangladesh	DNA Solution Ltd	Sharif Akhteruzzaman, Zeba Islam Seraj, Nazmul Ahsan, Md Imdadul Hoque, MA Malek, Shahryar Nabi, Sabrina Morion Elias, ABM Khademul Islam, Richard Malo, Imran Khan, Abu Sufian, Sabita Rezwana Rahman, Habibul Bari Shozib, Mamun Ahmed, AHM Nurun Nabi, Mohammad Riazul Islam, Md Mizanur Rahman, Md Ismail Hosen, Latiful Bari, Gazi Nurun Nahar, Haseena Khan, M Anwar Hossain.
EPI_ISL_450840	COVID-19 Laboratory	DNA Solution Ltd. L-5	Sharif Akhteruzzaman, Zeba Islam Seraj, Nazmul Ahsan, Md Imdadul Hoque, MA Malek, Shahryar Nabi, Sabrina Morion Elias, ABM Khademul Islam, Richard Malo, Imran Khan, Abu Sufian, Sabita Rezwana Rahman, Habibul Bari Shozib, Mamun Ahmed, AHM Nurun Nabi, Mohammad Riazul Islam, Md Mizanur Rahman, Md Ismail Hosen, Latiful Bari, Gazi Nurun Nahar, Haseena Khan, M Anwar Hossain.
EPI_ISL_450841	COVID-19 Laboratory	DNA Solution Ltd	Sharif Akhteruzzaman, Zeba Islam Seraj, Nazmul Ahsan, Md Imdadul Hoque, MA Malek, Shahryar Nabi, Sabrina Morion Elias, ABM Khademul Islam, Richard Malo, Imran Khan, Abu Sufian, Sabita Rezwana Rahman, Habibul Bari Shozib, Mamun Ahmed, AHM Nurun Nabi, Mohammad Riazul Islam, Md Mizanur Rahman, Md Ismail Hosen, Latiful Bari, Gazi Nurun Nahar, Haseena Khan, M Anwar Hossain.
EPI_ISL_450843	COVID-19 Laboratory	DNA Solution Ltd.	Sharif Akhteruzzaman, Zeba Islam Seraj, Nazmul Ahsan, Md Imdadul Hoque, MA Malek, Shahryar Nabi, Sabrina Morion Elias, ABM Khademul Islam, Richard Malo, Imran Khan, Abu Sufian, Sabita Rezwana Rahman, Habibul Bari Shozib, Mamun Ahmed, AHM Nurun Nabi, Mohammad Riazul Islam, Md Mizanur Rahman, Md Ismail Hosen, Latiful Bari, Gazi Nurun Nahar, Haseena Khan, M Anwar Hossain.
EPI_ISL_451076	West China Hospital of Sichuan University	State Key Laboratory of Biotherapy of Sichuan University	Baowen Du, Minjin Wang, Chao Tang, Chuan Chena, Yongzhao Zhou, Mingxia Yu, Han-Cheng Wei, Weimin Li, Jing-wen Lin, Jia Geng, Binwu Ying, Lu Chen
EPI_ISL_451149	M.P Shah Government Medocal college Jamnagar	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Binita Aring, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Priti Pandita, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451150	M.P Shah Government Medocal college Jamnagar	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Binita Aring, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Priti Pandita, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451151	M.P Shah Government Medocal college Jamnagar	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Binita Aring, Janvi Raval, Zarna Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Priti Pandita, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451152	M.P Shah Government Medocal college Jamnagar	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Binita Aring, Janvi Raval, Zarna Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Siddhant Kumar, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451157	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Manish Patti, Tanuja Javadekar, Amit Kanani, Nidhi Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Siddhant Kumar, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451158	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Manish Patti, Tanuja Javadekar, Amit Kanani, Nidhi Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Siddhant Kumar, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451161	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Manish Patti, Tanuja Javadekar, Amit Kanani, Nidhi Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Siddhant Kumar, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451162	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Manish Patti, Tanuja Javadekar, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Manish Patti, Tanuja Javadekar, Amit Kanani, Nidhi Patel, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Priti Pandita, Chaitanya Joshi, Madhvi Joshi.
EPI_ISL_451298	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451299	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451300	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451301	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451302	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451303	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451304	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Maria R. Capobianchi, Giuseppe Ippolito
EPI_ISL_451306	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Antonio Piralla, Fausto Baldanti, Martina Rueca, Antonino Di Caro, Maria R. Capobianchi, Cesare E.M. Gruber, Barbara Bartolini
EPI_ISL_451307	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Fausto Baldanti, Antonio Piralla, Antonino Di Caro, Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Maria R. Capobianchi
EPI_ISL_451308	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Antonio Piralla, Fausto Baldanti, Maria R. Capobianchi, Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Antonino Di Caro
EPI_ISL_451309	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Fausto Baldanti, Antonio Piralla, Cesare E.M. Gruber, Maria R. Capobianchi, Antonino Di Caro, Martina Rueca, Barbara Bartolini
EPI_ISL_451310, EPI_ISL_451311	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Vasiliki Pogka, Timokratis Karamitros, Athanasios Kossyvakis, Antonios Kalliaropoulos, Horefti Elina, Evangelidou Maria, Androniki Voulgaris-Kokota, Aspasia Kontou, Andreas Mentis see above
EPI_ISL_451313, EPI_ISL_451314, EPI_ISL_451316, EPI_ISL_451319, EPI_ISL_451320, EPI_ISL_451321, EPI_ISL_451322, EPI_ISL_451325, EPI_ISL_451326, EPI_ISL_451327, EPI_ISL_451328, EPI_ISL_451329, EPI_ISL_451330, EPI_ISL_451331, EPI_ISL_451332, EPI_ISL_451333, EPI_ISL_451334, EPI_ISL_451335, EPI_ISL_451344, EPI_ISL_451345, EPI_ISL_451346, EPI_ISL_451348, EPI_ISL_451353, EPI_ISL_451354, EPI_ISL_451356, EPI_ISL_451357, EPI_ISL_451359, EPI_ISL_451360, EPI_ISL_451365, EPI_ISL_451369, EPI_ISL_451370, EPI_ISL_451371, EPI_ISL_451374, EPI_ISL_451376, EPI_ISL_451377, EPI_ISL_451378, EPI_ISL_451379, EPI_ISL_451380, EPI_ISL_451381, EPI_ISL_451382, EPI_ISL_451383, EPI_ISL_451384, EPI_ISL_451385, EPI_ISL_451386, EPI_ISL_451387, EPI_ISL_451388, EPI_ISL_451389	West China Hospital of Sichuan University	State Key Laboratory of Biotherapy of Sichuan University	Baowen Du, Minjin Wang, Chao Tang, Chuan Chen, Yongzhao Zhou, Mingxia Yu, Hancheng Wei, Weimin Li, Jing-wen Lin, Jia Geng, Binwu Ying, Lu Chen Lukasz Rabalski, Anna Piotrowska-Mietelska, Maciej Kosinski, Boguslaw Szewczyk, Krystyna Bienkowska-Szewczyk
EPI_ISL_451644, EPI_ISL_451645, EPI_ISL_451646, EPI_ISL_451647	Laboratory of Molecular Biology, Diagnostyka sp. z o.o.	Laboratory of Recombinant Vaccines	Lukasz Rabalski, Boguslaw Szewczyk, Krystyna Bienkowska-Szewczyk, Jaroslaw Pinkas
EPI_ISL_451655, EPI_ISL_451656, EPI_ISL_451657, EPI_ISL_451658, EPI_ISL_451659, EPI_ISL_451660, EPI_ISL_451661, EPI_ISL_451662, EPI_ISL_451663, EPI_ISL_451664	State Sanitary Inspectorate	Laboratory of Recombinant Vaccines	Lukasz Rabalski, Boguslaw Szewczyk, Krystyna Bienkowska-Szewczyk, Jaroslaw Pinkas

EPI_ISL_451666	M.P Shah Government Medocal college Jamnagar	Gujarat Biotechnology Research Centre	Binita Aring, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Akanksha Verma, Chaitanya Joshi, Madhvi Joshi,	
EPI_ISL_451934	Research Unit, University Hospital for Infectious Diseases "Dr. Fran Mihalević"	Cicin Sain lab, Helmholtz Centre for Infection Research	Zeeshan Chaudhry, Kathrin Eschke, Željka Mačák Šafranko, Ivan-Christian Kurolt	
EPI_ISL_451935	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Prof. Isabelle Salmon, Dr. Nicky D'Haene	
EPI_ISL_451961	Istituto Zooprofilattico Sperimentale Puglia e Basilicata; Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica dell'Università degli Studi di Bari "A.Moro"; Istituto di Bioenergetica, Bioenergetica e Biotecnologie Moleculari del Consiglio Nazionale delle Ricerche di Bari	Beaconlab (Bioinformatics Evolution and Comparative Genomics lab), Dept of Biosciences, University of Milan	Parisi A., Pesole G., Manzari C., Chiara M.	
EPI_ISL_452139	Instituto de Diagnóstico y Referencia Epidemiologicos (INDR)	Instituto de diagnóstico y Referencia Epidemiologicos (INDRE)	Ramirez-Gonzalez Ernesto, Garces-Ayala Fabiola, Araiza-Rodriguez Adnan, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Arambla Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma	
EPI_ISL_452140	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Isabelle Salmon, Nicky D'Haene	
EPI_ISL_452142	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Isabelle Salmon, Nicky D'Haene	
EPI_ISL_452148, EPI_ISL_452149	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Isabelle Salmon, Nicky D'Haene	
EPI_ISL_452150	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Prof. Isabelle Salmon, Dr Nicky D'Haene	
EPI_ISL_452151	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Prof. Isabelle Salmon, Dr.Nicky D'Haene	
EPI_ISL_452152	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	CUB Hopital Erasme Laboratoire d'Anatomie Pathologique	Prof. Isabelle Salmon, Dr Nicky D'Haene	
EPI_ISL_452192, EPI_ISL_452193, EPI_ISL_452194, EPI_ISL_452195, EPI_ISL_452196, EPI_ISL_452197, EPI_ISL_452198, EPI_ISL_452199, EPI_ISL_452200, EPI_ISL_452201, EPI_ISL_452202, EPI_ISL_452203, EPI_ISL_452204, EPI_ISL_452205, EPI_ISL_452206, EPI_ISL_452207, EPI_ISL_452208, EPI_ISL_452209, EPI_ISL_452210, EPI_ISL_452211, EPI_ISL_452212, EPI_ISL_452213	see above	NIV Influenza	Potdar V	
EPI_ISL_452218, EPI_ISL_452219, EPI_ISL_452220, EPI_ISL_452221, EPI_ISL_452222, EPI_ISL_452223	Goethe University Hospital Frankfurt	Institute for Medical Virology, Goethe University Hospital Frankfurt	Tuna Toptan, Sebastian Hoehl, Sandra Westhaus, Denisa Bojkova, Annemarie Berger, Björn Rotter, Klaus Hoffmeier, Jindrich Cinatl, Sandra Ciesek, and Marek Widera	
EPI_ISL_452327, EPI_ISL_452328, EPI_ISL_452329, EPI_ISL_452330, EPI_ISL_452331, EPI_ISL_452332, EPI_ISL_452333, EPI_ISL_452334, EPI_ISL_452335, EPI_ISL_452336, EPI_ISL_452337, EPI_ISL_452338, EPI_ISL_452339, EPI_ISL_452340, EPI_ISL_452341, EPI_ISL_452342, EPI_ISL_452343, EPI_ISL_452344, EPI_ISL_452345, EPI_ISL_452346, EPI_ISL_452347, EPI_ISL_452348, EPI_ISL_452349, EPI_ISL_452350, EPI_ISL_452351, EPI_ISL_452352, EPI_ISL_452353, EPI_ISL_452354, EPI_ISL_452355, EPI_ISL_452356, EPI_ISL_452357, EPI_ISL_452358, EPI_ISL_452359, EPI_ISL_452360, EPI_ISL_452361, EPI_ISL_452362, EPI_ISL_452363, EPI_ISL_452364	see above	NIV Influenza	Siyuan Yang, Chengjie Jie, Fengting Yu, Yunxia Tang, Liting Yan, Linghang Wang	
EPI_ISL_452473, EPI_ISL_452480, EPI_ISL_452481, EPI_ISL_452484, EPI_ISL_452487, EPI_ISL_452488, EPI_ISL_452492, EPI_ISL_452496, EPI_ISL_452498, EPI_ISL_452500, EPI_ISL_452503, EPI_ISL_452509, EPI_ISL_452521, EPI_ISL_452534	see above	Clinica Universidad de Navarra. Servicio de Enfermedades Infecciosas y Microbiología clínica	SeqCOVID-SPAIN consortium/BV(CSIC)	Mirian Fernández-Alonso, Jose Luis del Pozo and SeqCOVID-SPAIN consortium
EPI_ISL_454497, EPI_ISL_454498	RSE "National Center for Biotechnology"	RSE "National Center for Biotechnology"	Alexandr Shevtsov, Ilyas Akhmetollayev, Viktoriya Lutsay, Asylulan Amirgazin, Askar Abdaliev, Akbota Rakhametova, Zabira Aushakmetova, Ruslan Kalendar, Yerlan Ramankulov	
EPI_ISL_454499, EPI_ISL_454500, EPI_ISL_454501, EPI_ISL_454502, EPI_ISL_454503, EPI_ISL_454504, EPI_ISL_454505, EPI_ISL_454506, EPI_ISL_454507, EPI_ISL_454508, EPI_ISL_454509, EPI_ISL_454510, EPI_ISL_454511, EPI_ISL_454512, EPI_ISL_454513, EPI_ISL_454514, EPI_ISL_454515, EPI_ISL_454516, EPI_ISL_454517, EPI_ISL_454518, EPI_ISL_454519, EPI_ISL_454520	see above	RSE "National Center for Biotechnology"	Alexandr Shevtsov, Ilyas Akhmetollayev, Viktoriya Lutsay, Asylulan Amirgazin, Askar Abdaliev, Akbota Rakhametova, Zabira Aushakmetova, Ruslan Kalendar, Yerlan Ramankulov	
EPI_ISL_454521, EPI_ISL_454522, EPI_ISL_454523, EPI_ISL_454524, EPI_ISL_454525, EPI_ISL_454526, EPI_ISL_454527, EPI_ISL_454528, EPI_ISL_454529, EPI_ISL_454530, EPI_ISL_454531, EPI_ISL_454532, EPI_ISL_454533, EPI_ISL_454534, EPI_ISL_454536, EPI_ISL_454537, EPI_ISL_454540, EPI_ISL_454542, EPI_ISL_454543, EPI_ISL_454544, EPI_ISL_454545, EPI_ISL_454546, EPI_ISL_454547, EPI_ISL_454549, EPI_ISL_454551, EPI_ISL_454552	see above	Laboratory of Infectious Diseases Center of Beijing Ditan Hospital	Potdar V	
EPI_ISL_454549, EPI_ISL_454550, EPI_ISL_454551, EPI_ISL_454552, EPI_ISL_454553, EPI_ISL_454554, EPI_ISL_454555, EPI_ISL_454556, EPI_ISL_454557, EPI_ISL_454558, EPI_ISL_454560, EPI_ISL_454561, EPI_ISL_454562	see above	Laboratory of Infectious Diseases Center of Beijing Ditan Hospital	Siyuan Yang, Chengjie Jie, Fengting Yu, Yunxia Tang, Liting Yan, Linghang Wang	
EPI_ISL_454574	Institute for Public Health	Laboratory for advanced genomics	Potdar V	
EPI_ISL_454578	University Hospital for Infectious Diseases "Dr. Fran Mihalević", Research Unit	University of Zagreb, Centre for research and knowledge transfer in biotechnology	Filip Rokić, Lovro Trgovec-Greif, Neven Sučić, Tomislav Rukavina, Igor Jurak, Oliver Vučrek	
EPI_ISL_454581, EPI_ISL_454583, EPI_ISL_454588	University Hospital for Infectious Diseases "Dr. Fran Mihalević", Research Unit	University of Zagreb, Centre for research and knowledge transfer in biotechnology	Ivan-Christian Kurolt, Jelena Ivancic Jelecki, Anamarja Slovic	
EPI_ISL_454592	University Hospital for Infectious Diseases "Dr. Fran Mihalević", Research Unit	University of Zagreb, Centre for research and knowledge transfer in biotechnology	Ivan-Christian Kurolt, Jelena Ivancic Jelecki, Anamarja Slovic	
EPI_ISL_454602	Croatian Institute of Public Health	University of Zagreb, Centre for research and knowledge transfer in biotechnology	Irena Tabain, Tatjana Vilibic-Cavlek, Jelena Ivancic Jelecki, Anamarja Slovic	
EPI_ISL_454605, EPI_ISL_454606	Institute for Public Health	Laboratory for advanced genomics	Filip Rokić, Lovro Trgovec-Greif, Neven Sučić, Tomislav Rukavina, Igor Jurak, Oliver Vučrek	
EPI_ISL_454732	Russian State Collection of Viruses	Pathogenic Microorganisms Variability Laboratory	Denis Protsenko, Alexey Shchetinin, Maria Nikiforova, Elena Shidlovskaya, Nadezhda Kuznetsova, Vladimir Gushchin, Irina Dolzhikova, Daria Grousov, Andrei Botikov, Denis Logunov, Alexander Gintburg, Alexey Mazurs	
EPI_ISL_454749	Japanese Quarantine Stations	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Tsutomu Kageyama, Shinji Saito, Ikuo Takayama, Hideki Hasegawa, Takuri Takahashi, Hajime Kamiya, Takuwa Yamagishi, Motoi Suzuki, Takaji Wakita, Makoto Kuruda	
EPI_ISL_454830, EPI_ISL_454831, EPI_ISL_454832, EPI_ISL_454833	SMS Medical College, Jaipur	CSIR Institute of Genomics and Integrative Biology	Sudhir Bhandari, Rahul Bhowar, Mohammed Imran, Mohit Divakar, Disha Sharma, Anshul Kumar, Bani Jolly, Rahul Sahlot, Abhinav Jain, Paras Sehgal, Gyan Ranjan, Vinod Scaria, Sridhar Sivasubbu, Sandeep K Mathur	
EPI_ISL_454858, EPI_ISL_454862, EPI_ISL_454865, EPI_ISL_454866, EPI_ISL_454867	Translational Health Science and Technology Institute - ESIC medical college and hospital, Faridabad	THSTI Bioassay laboratory	Saurabh Kumar, Jigme Wangchuk, Anil Kumar Pandey, Asim Das, Guruprasad R. Medigeshi	
EPI_ISL_455015	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Snehal Bagatharia, Prakash Modi, Sejal Antala, Manish Pattani, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455016	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Prakash Modi, Sejal Antala, Manish Pattani, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455017	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Afzal Ansari, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455018	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	R N Daveswar, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, Neelam Nathani, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455019	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, Neelam Nathani, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455020	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Bhavya Jindal, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455021	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Camellia Chakraborty, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umar Misra, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455022	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455023	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455024	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455025	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Chaitanya Joshi, Madhvi Joshi	
EPI_ISL_455026	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayeed, Komal Patel, Labdhi Pandya, Snehal Bagatharia, Tanuja Javadekar, R N Daveswar, Ramesh Pandit, Tejas Shah, Chaitanya Joshi, Madhvi Joshi	

EPI_ISL_455027	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	
EPI_ISL_455312	Microbiology Unit, Department of Pathology & Laboratory Medicine, IIM Medical Centre	SEA Microbiome Unit, Faculty of Industrial Sciences & Technology, Universiti Malaysia Pahang	Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghavendra Kumar, Dinesh Kumar, Zubir Sayed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Tanuja Javadekar , R N Daveeshwar, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Pavar, Janvi Raval, Zarna Patel, Monika Gandhi, Pragya Sharma, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_455313	Microbiology Unit, Department of Pathology & Laboratory Medicine, IIM Medical Centre	SEA Microbiome Unit, Faculty of Industrial Sciences & Technology, Universiti Malaysia Pahang	Norhidayah Binti Kamarudin, Ahmad Hafiz Bin Zukifly, Hajar Fauzan Ahmad, Muhammad Adam Lee Abdullah, Mohd Fazli Farida Asras, Ahmad Mahfuz Gazali, Mohd Nazli Bin Kamarulzaman, IIM Medical Centre Covid19 Taskforce, UMP Covid19 Team
EPI_ISL_455314	Hospital Virgen del Rocio	Instituto de Salud Carlos III	Hajar Fauzan Ahmad, Norhidayah Kamarudin, Ahmad Hafiz Zukifly, IIM Medical Centre Covid19 Taskforce, UMP Covid19 Team
EPI_ISL_455315, EPI_ISL_455316, EPI_ISL_455317, EPI_ISL_455318, EPI_ISL_455319, EPI_ISL_455320, EPI_ISL_455321, EPI_ISL_455322, EPI_ISL_455324	Hospital Virgen de las Nieves	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, J. Lepe Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, S. Sanbonmatsu
EPI_ISL_455325	Hospital Universitario de Canarias	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, B. Castro
EPI_ISL_455326	Hospital Universitario Insular de Gran Canaria	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, A. Hernández
EPI_ISL_455327	Consejería de Sanidad y Asuntos Sociales	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, G. Gutiérrez
EPI_ISL_455328, EPI_ISL_455329, EPI_ISL_455330, EPI_ISL_455331	Complejo Hospitalario Universitario La Coruna	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, M. Canizares
EPI_ISL_455332	Xerencia de Xestión Integrada de Pontevedra e o Salnés	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, M. García
EPI_ISL_455333	Complejo Hospitalario Universitario de Santiago	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, J. Llovo
EPI_ISL_455334, EPI_ISL_455335	Complejo Hospitalario de Orense	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, M. Paz
EPI_ISL_455336, EPI_ISL_455337, EPI_ISL_455338, EPI_ISL_455339, EPI_ISL_455340, EPI_ISL_455341, EPI_ISL_455342, EPI_ISL_455343	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, C. Alonso
EPI_ISL_455344, EPI_ISL_455345, EPI_ISL_455346, EPI_ISL_455347, EPI_ISL_455348, EPI_ISL_455349	Hospital Comarcal de Melilla	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, I. Pérez
EPI_ISL_455350, EPI_ISL_455351	Hospital Txagorritxu	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, C. Gómez
EPI_ISL_455352, EPI_ISL_455353, EPI_ISL_455354	Hospital de Cruces	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, P. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I, M. Aranzamendi
EPI_ISL_455362	Nigeria Centre for Disease Control (NCDC)	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Olawoye I., Uwanibe J., Oguzie J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455412, EPI_ISL_455413, EPI_ISL_455419	Nigeria Centre for Disease Control (NCDC)	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455422	Nigeria Centre for Disease Control	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455423, EPI_ISL_455424	Nigeria Centre for Disease Control (NCDC)	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455426	Nigeria Centre for Disease Control	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455429, EPI_ISL_455431	Nigeria Centre for Disease Control (NCDC)	African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria	Oluniyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.
EPI_ISL_455434	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Taboada Ramírez Blanca, Ramirez-Gonzalez Ernesto, Garces-Ayala Fabiola, Araiza-Rodríguez Adnan, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Arambula Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma
EPI_ISL_455435	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Garces-Ayala Fabiola, Taboada Ramírez Blanca, Ramirez-Gonzalez Ernesto, Araiza-Rodríguez Adnan, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Arambula Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma
EPI_ISL_455436	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Garces-Ayala Fabiola, Taboada Ramírez Blanca, Ramirez-Gonzalez Ernesto, Araiza-Rodríguez Adnan, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Arambula Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma
EPI_ISL_455437, EPI_ISL_455438	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Araiza-Rodríguez Adnan, Garces-Ayala Fabiola, Ramirez-Gonzalez Ernesto, Mendieta-Condado Edgar, Rodriguez-Maldonado Abril, Wong-Arambula Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma
EPI_ISL_455439	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Mendieta-Condado Edgar, Araiza-Rodríguez Adnan, Garces-Ayala Fabiola, Rodriguez-Maldonado Abril, Wong-Arambula Claudia, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma, Taboada Ramírez Blanca
EPI_ISL_455445	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Rodriguez-Maldonado Abril, Mendieta-Condado Edgar, Araiza-Rodríguez Adnan, Garces-Ayala Fabiola, Taboada Ramírez Blanca, Ramirez-Gonzalez Ernesto, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma, Wong-Arambula Claudia
EPI_ISL_455446	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiológicos (INDRE)	Rodriguez-Maldonado Abril, Mendieta-Condado Edgar, Araiza-Rodríguez Adnan, Garces-Ayala Fabiola, Taboada Ramírez Blanca, Ramirez-Gonzalez Ernesto, Barrera-Badillo Gisela, Hernandez-Rivas Lucia, Lopez-Martinez Irma, Wong-Arambula Claudia
EPI_ISL_455460, EPI_ISL_455461, EPI_ISL_455462, EPI_ISL_455463, EPI_ISL_455464, EPI_ISL_455465, EPI_ISL_455466, EPI_ISL_455467	Jiangxi Province Center for Disease Control and Prevention	Jiangxi Province Center for Disease Control and Prevention	JianXiong Li,Ying Xiong,Tian Gong,Yong Shi,Jun Zhou,Feng Xiao,ShiWen Liu,XiaoQing Liu,Gang Xu,Dafan Xiao,Xin Ran,YanNi Zhang
EPI_ISL_455468, EPI_ISL_455469, EPI_ISL_455470, EPI_ISL_455471, EPI_ISL_455472, EPI_ISL_455473, EPI_ISL_455474	Laboratory for Respiratory Viruses, Cantacuzino National Military-Medical Institute for Research and Development	Cantacuzino Institute	M.Lazar, L.Ustea, A.Cretu, Tim Durfee
EPI_ISL_455475, EPI_ISL_455476, EPI_ISL_455477	Laboratory for Respiratory Viruses, Cantacuzino National Military-Medical Institute for Research and Development	Cantacuzino Institute	M.Lazar, L.Ustea, A.Cretu, T.Durfee
EPI_ISL_455566, EPI_ISL_455567	Institute for Public Health	Laboratory for advanced genomics	Filip Rokić, Lovro Trgovc-Greif, Neven Sučić, Tomislav Rukavina, Igor Jurak, Oliver Vugrek
EPI_ISL_455694, EPI_ISL_455695, EPI_ISL_455696, EPI_ISL_455697, EPI_ISL_455698, EPI_ISL_455699, EPI_ISL_455700, EPI_ISL_455701, EPI_ISL_455702, EPI_ISL_455703, EPI_ISL_455704, EPI_ISL_455705, EPI_ISL_455706, EPI_ISL_455707, EPI_ISL_455708, EPI_ISL_455709, EPI_ISL_455710, EPI_ISL_455711, EPI_ISL_455712	National Hospital of Tropical Diseases	Nguyen Thi Tam, Van Dinh Trang, Nguyen Thu Trang, Nguyen Thi Ngoc Diep, Le Nguyen Minh Hoa, Pham Ngoc Thach, H. Rogier van Doorn, on behalf of the OUCRU COVID-19 research group	
EPI_ISL_455714, EPI_ISL_455718	National Hospital of Tropical Diseases	Oxford University Clinical Research Unit, Hanoi, Vietnam	Nguyen Thi Tam, Van Dinh Trang, Nguyen Thi Hong Thuong, Vu Thi Ngoc Bich, Nguyen Thi Trang, Nguyen Thi Ngoc Diep, Le Nguyen Minh Hoa, Pham Ngoc Thach, H. Rogier van Doorn, on behalf of the OUCRU COVID-19 research group
EPI_ISL_455790	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhay Sapian, Yusuf Muhammad Noor, Jeyanthi Suppiah, Nurhezeen Md Iqbal, Eniza Kasim, Zarina Mohd Zawawi, Siti Noraini Othman, Mohd Faizal Abu Bakar, Shamsidar Sopie, Azrin Ahmad, Ravindran Thayan, Norazah Ahmad, Tahir Aris, Shahruh Hisham Zainal Ariffin
EPI_ISL_455791	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhay Sapian, Yusuf Muhammad Noor, Jeyanthi Suppiah, Nurhezeen Md Iqbal, Eniza Kasim, Zarina Mohd Zawawi, Siti Noraini Othman, Mohd Faizal Abu Bakar, Shamsidar Sopie, Azrin Ahmad, Ravindran Thayan, Norazah Ahmad, Tahir Aris, Shahruh Hisham Zainal Ariffin
EPI_ISL_455792	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhay Sapian, Yusuf Muhammad Noor, Jeyanthi Suppiah, Nurhezeen Md Iqbal, Eniza Kasim, Zarina Mohd Zawawi, Siti Noraini Othman, Mohd Faizal Abu Bakar, Shamsidar Sopie, Azrin Ahmad, Ravindran Thayan, Norazah Ahmad, Tahir Aris, Shahruh Hisham Zainal Ariffin
EPI_ISL_455793	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Malaysia Genome Institute	Mohd Noor Mat Isa, Irni Suhay Sapian, Yusuf Muhammad Noor, Jeyanthi Suppiah, Nurhezeen Md Iqbal, Eniza Kasim, Zarina Mohd Zawawi, Siti Noraini Othman, Mohd Faizal Abu Bakar, Shamsidar Sopie, Azrin Ahmad, Ravindran Thayan, Norazah Ahmad, Tahir Aris, Shahruh Hisham Zainal Ariffin

EPI_ISL_456117	EPI_ISL_456119	EPI_ISL_456120	EPI_ISL_456126	EPI_ISL_456127	EPI_ISL_456138	EPI_ISL_456145	EPI_ISL_456146	EPI_ISL_456147	EPI_ISL_456148	EPI_ISL_456149	EPI_ISL_456150	EPI_ISL_456151	EPI_ISL_456152	EPI_ISL_456155
see above	Instituto Nacional de Salud - Unidad de Secuenciación y Análisis Genómico	Instituto Nacional de Salud	Universidad Cooperativa de Colombia, Instituto Alexander von Humboldt, Imperial College-London, London School of Hygiene & Tropical Medicine	Katherine Laiton-Donato, Diego A. Alvarez-Díaz, Carlos Franco-Muñoz, Jose A. Usme-Ciro, Gloria Puerto, Nicolas D. Franco-Sierra, Mailyn A.Gonzalez-Reyes, Julian Villabona-Arenas, Lizz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Sergio Gomez-Rangel, Luz Dary Rodríguez, Juliana Barbosa, Erika Osipitá, Diana Marcela Walteros-Acero, Martha Lucia Ospina Martínez, Marcela Cucunubá, Christian										
EPI_ISL_457702	Oman-NIC	Microbiology laboratory- Sultan Qaboos University Hospital	Fahad Zadjali, Samira Al-Marqui, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindī, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Kharusi, Abdulla Balkhair											
EPI_ISL_457703	Oman-NIC	Department of Microbiology and Immunology- SQUH	Fahad Zadjali, Samira Al-Marqui, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindī, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Kharusi, Abdulla Balkhair											
EPI_ISL_457705	OMAN-NIC	Department of Microbiology and Immunology- SQUH	Fahad Zadjali, Samira Al-Marqui, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindī, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Kharusi, Abdulla Balkhair											
EPI_ISL_457707	Oman-NIC	Department of Microbiology and Immunology- SQUH	Fahad Zadjali, Samira Al-Marqui, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindī, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Kharusi, Abdulla Balkhair											
EPI_ISL_457726, EPI_ISL_457730	TSGH-CP molecular lab	TSGH-CP molecular lab	Cherng-Lih Perng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chen-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang											
EPI_ISL_457750	Centogene AG	Centogene AG	Prof. Dr. Peter Bauer, Dr. Krishna Kumar Kandaswamy											
EPI_ISL_457824	Bezmialem Vakif University, Dept Microbiology, Medical School, Fatih, Istanbul, Turkey	Bezmialem Vakif University, Medical School & Beykoz Institute of Life Sciences & Biotechnology	Mehmet Z. Doymaz, Merve Kalkan, Nesibe Cetin, Elif Karaaslan, Bilge Sumbul, Filiz Guney											
EPI_ISL_457997	Oman-NIC	Oman-NIC	Samira Al-Marqui, Fahad Zadjali, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindī, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Kharusi, Abdulla Balkhair											
EPI_ISL_458029	TSGH-CP molecular lab	TSGH-CP molecular lab	Cherng-Lih Perng, Ming-Jr JIAN, Chih-Kai Chang, Jung-Chung Lin, Kuo-Ming Yeh, Chen-Wen Chen, Sheng-Kang Chiu, Hsing-Yi Chung, Shih-Hung Tsai, Kuo-Sheng Hung, Tien-Yao Chang, Feng-Yee Chang, Hung-Sheng Chang											
EPI_ISL_458079	Mitra Keluarga Hospital Kenjeran	Institute of Tropical Disease, Universitas Airlangga	Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Anastasia W Jefuna, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetijpto, Kazufumi Shimizu, Maria I Lusida											
EPI_ISL_458081	RSUD Bangil Pasuruan	Institute of Tropical Disease, Universitas Airlangga	Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Arma Rosalina, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetijpto, Kazufumi Shimizu, Maria I Lusida											
EPI_ISL_458083	Adi Husada Undaan Hospital	Institute of Tropical Disease, Universitas Airlangga	Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Irwati Marga, Gatot Soegiarto, Laksni Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetijpto, Kazufumi Shimizu, Maria I Lusida											
EPI_ISL_458086	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Dhaval Vaghela, Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458087	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458088	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458089	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458090	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458091	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458092	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458093	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458094	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458095	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458096	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458097	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458098	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458099	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458100	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458101	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Dhaval Vaghela, Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458102	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458103	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Ramesh Patel, Pranay Shah, Kamlesh J Upadhyay, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi											
EPI_ISL_458104	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . .											
EPI_ISL_458105	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . .											
EPI_ISL_458106	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . .											
EPI_ISL_458107	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . .											
EPI_ISL_458111	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhī Pandya, Snehal Bagatharia, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . .											

EPI_ISL_458112	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pragya Sharma, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . . .
EPI_ISL_458113	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Maharshi Pandya, Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Neha Rajpara, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . . .
EPI_ISL_458117, EPI_ISL_458118, EPI_ISL_458120	Oman National Influenza Centre	Department of Microbiology and Immunology-SQUH	Amit Kanani, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Ramesh Pandit, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Afzal Ansari, Bhavesh Modi, Gaurishankar Shrimali, R D Dixit, A M Kadri, Umang Mishra, Chaitanya Joshi, Madhvi Joshi, . . . .
EPI_ISL_458133	National Institute of Biotechnology	Bioinformatics Division, National Institute of Biotechnology	Fahad Zadjali, Samira Al-Marquji, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-Kindi, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samiha Al Karhusi, Abdulla Balkhair
EPI_ISL_458139	Evandro Chagas Institute	Evandro Chagas Institute	Mohammad Uzzal Hossain, Md. Moniruzzaman, Md. Salim Khan, Md. Nazrul Islam, Md. Hadisur Rahman, Aritra Bhattacharjee, Md. Ruhul Amin, Asif Rashid, Chaman Ara Keya, Keshob Chandra Das, Md. Salimullah
EPI_ISL_459866	Kingston Health Sciences Center	Queen's Genomics Lab at Ongwanada (Q-GLO)	Santos, M.C.; Silva, A.M.; Junior, W.D.C.; Barbegalata, L.S.; Ferreira, J.A.; Sousa, E.M.A.; da Silva, P.S.; Resque, H.R.; Martins, L.C.; Sousa Junior, E.C.; Viana, G.M.R.
EPI_ISL_459867	Kingston Health Sciences Center	Queen's Genomics Lab at Ongwanada (Q-GLO)	Sjaarda CP, Rustom N, Huang D, Perez-Patrigone S, Hudson ML, Wong H, Guan H, Ayub M, Soares CN, Colautti R, Evans GA, Sheth P
EPI_ISL_459868, EPI_ISL_459869, EPI_ISL_459871, EPI_ISL_459872, EPI_ISL_459873, EPI_ISL_459874, EPI_ISL_459875, EPI_ISL_459877, EPI_ISL_459879, EPI_ISL_459880, EPI_ISL_459881, EPI_ISL_459882, EPI_ISL_459883, EPI_ISL_459885, EPI_ISL_459886, EPI_ISL_459887, EPI_ISL_459888, EPI_ISL_459889, EPI_ISL_459892	see above	Queen's Genomics Lab at Ongwanada (Q-GLO)	Sjaarda CP, Rustom N, Huang D, Perez-Patrigone S, Hudson ML, Wong H, Guan H, Ayub M, Soares CN, Colautti R, Evans GA, Sheth P
EPI_ISL_459911	Kingston Health Sciences Center	Queen's Genomics Lab at Ongwanada (Q-GLO)	Rajesh Pandey#, Samreen Siddiqui, Pooja Sharma, Bansidhar Tarai, Vivekanand A, Bharathram Upilli, Saruchi Wadhwa, Nisha Tyagi, Mitali Mukerji, Bansidhar Tarai, Poonam Das, Sujeet Jha, Mohammed Faruq, Vinita Jha, Anurag Agrawal
EPI_ISL_459914, EPI_ISL_459915, EPI_ISL_459918, EPI_ISL_459919, EPI_ISL_459920, EPI_ISL_459921, EPI_ISL_459922, EPI_ISL_459923, EPI_ISL_459933, EPI_ISL_459934, EPI_ISL_459935, EPI_ISL_459936, EPI_ISL_459937, EPI_ISL_459938, EPI_ISL_459939, EPI_ISL_459940, EPI_ISL_459941, EPI_ISL_459942, EPI_ISL_459943	Devki Devi Foundation, a unit of Max Healthcare	CSIR-IGIB/Max	Rajesh Pandey#, Samreen Siddiqui, Pooja Sharma, Bansidhar Tarai, Vivekanand A, Bharathram Upilli, Saruchi Wadhwa, Nisha Tyagi, Mitali Mukerji, Bansidhar Tarai, Poonam Das, Sujeet Jha, Mohammed Faruq, Vinita Jha, Anurag Agrawal
EPI_ISL_459955	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel KA, Ellan K, Kalyanasundaram J, Mohd-Zain R, Thayan R
EPI_ISL_459962, EPI_ISL_459963	Centogene AG	Centogene AG	Prof. Dr. Peter Bauer, Dr. Krishna Kumar Kandaswamy
EPI_ISL_459964	Centogene AG	Centogene AG	Prof. Dr. Peter Bauer, Dr. Krishna Kumar Kandaswamy
EPI_ISL_460079	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Barbara Bartolini, Cesare E.M. Gruber, Maria R. Capobianchi, Martina Rueca, Antonio Piralla, Fausto Baldanti, Antonino Di Caro
EPI_ISL_460080	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Antonio Piralla, Barbara Bartolini, Fausto Baldanti, Martina Rueca, Antonino Di Caro, Cesare E.M. Gruber, Maria R. Capobianchi
EPI_ISL_460081	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Fausto Baldanti, Martina Rueca, Antonio Piralla, Antonino Di Caro, Maria R. Capobianchi, Cesare E.M. Gruber, Barbara Bartolini
EPI_ISL_460082	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Cesare E.M. Gruber, Antonio Piralla, Antonino Di Caro, Barbara Bartolini, Maria R. Capobianchi, Fausto Baldanti
EPI_ISL_460083	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Antonino Di Caro, Cesare E.M. Gruber, Barbara Bartolini, Fausto Baldanti, Antonio Piralla, Maria R. Capobianchi
EPI_ISL_460084	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Fausto Baldanti, Antonio Piralla, Martina Rueca, Barbara Bartolini, Maria R. Capobianchi, Cesare E.M. Gruber, Antonino Di Caro
EPI_ISL_460085	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Maria R. Capobianchi, Barbara Bartolini, Fausto Baldanti, Martina Rueca, Antonio Piralla, Antonino Di Caro
EPI_ISL_460086	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Maria R. Capobianchi, Fausto Baldanti, Antonio Piralla, Antonino Di Caro, Barbara Bartolini, Cesare E.M. Gruber, Martina Rueca
EPI_ISL_460087	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Maria R. Capobianchi, Martina Rueca, Barbara Bartolini, Antonino Di Caro, Antonio Piralla, Fausto Baldanti
EPI_ISL_460088	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Barbara Bartolini, Fausto Baldanti, Maria R. Capobianchi, Cesare E.M. Gruber, Antonino Di Caro, Antonio Piralla
EPI_ISL_460089	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Antonino Di Caro, Barbara Bartolini, Martina Rueca, Cesare E.M. Gruber, Antonio Piralla, Fausto Baldanti, Maria R. Capobianchi
EPI_ISL_460091	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Antonino Di Caro, Antonio Piralla, Martina Rueca, Fausto Baldanti, Barbara Bartolini, Maria R. Capobianchi, Cesare E.M. Gruber
EPI_ISL_460092	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Maria R. Capobianchi, Antonino Di Caro, Antonio Piralla, Barbara Bartolini, Fausto Baldanti
EPI_ISL_460093	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Maria R. Capobianchi, Antonio Piralla, Antonino Di Caro, Fausto Baldanti, Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini
EPI_ISL_460094	Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo , Pavia	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	Barbara Bartolini, Maria R. Capobianchi, Antonino Di Caro, Antonio Piralla, Cesare E.M. Gruber, Martina Rueca, Fausto Baldanti
EPI_ISL_461478	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Fenil Patel, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Tanuja Javedkar, R N Daveshwar, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461479	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Neelam Nathani, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Tanuja Javedkar , R N Daveshwar, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461480	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Arni Chaudhari, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Tanuja Javedkar , R N Daveshwar, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461481	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Bhavya Jindal, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Prakash Modi, Sejal Antala, Manish Patti, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461482	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Anjali Rajwar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Prakash Modi, Sejal Antala, Manish Patti, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461483	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Dipeshwari Shewale, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461484	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Priyanka P Vatsa, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461485	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pojoa P Doshi, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461486	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Akanksha Verma, Pranay Shah, Kamlesh J Upadhyay, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461487	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Priti Pandita, Kamlesh J Upadhyay, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461488	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pragya Sharma, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_461489	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Neha Rajpara, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Mahershi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar,



EPI_ISL_467037	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Tejas Shah, Ankita Hinsu, Pritesh Sabara, Apurvasinh Puvar, Fenil Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467038	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Tejas Shah, Ankita Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Neelam Nathani, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467039	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Meenakshi Shah, Neena Doshi, Varsha Godbole, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Armi Chaudhari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467040	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Neena Doshi, Varsha Godbole, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467041	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467042	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467043	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467044	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467045	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467046	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467047	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467048	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Zuber Saiyed, Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467049	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Komal Patel, Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467050	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Labdh Pandya, Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467051	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Snehal Bagatharia, Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467052	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Pranay Shah, Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467053	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Kamlesh J Upadhyay, Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467054	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Nirav Mungalpara, Tejas Shah, Ankit Hinsu, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pooja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_467300	General Hospital "Abdullah Nakas"	Alea Genetic Center	Rijad Konjhodzic; Liana Salihefendic; Teufik Goletic; Sead Jazic; Dino Pecar; Nihad Fejzic; Damir Marjanovic; Enis Kandic
EPI_ISL_467352, EPI_ISL_467353, EPI_ISL_467367, EPI_ISL_467369	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Luciana Appolinario, Fernando Motta, Anna Carolina Paixão, Ana Carolina Mendonça, Aline Mattos, Milene Miranda, Cristiana Garcia, Braila Caetano, Maria Ozgrzebska, Jonathan Lopes, Marilda Siqueira
EPI_ISL_467374	Dinkes Samarinda	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Yudhaputri, Hidayat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_467375	RSUP Prof. Dr. R. Kandou Manado	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Yudhaputri, Hidayat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_467376	RSUP Fatmawati	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Edison Johar, Frilasita A Yudhaputri, Hidayat Trimarsanto, David H Muljono, Safarina G Malik, Khin Saw Myint, Amin Soebandrio
EPI_ISL_467774, EPI_ISL_467775	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Speranskaya AS, Kapteleva VV, Samoilov AE, Korneenko EV, Sizova TV, Tivanova EV, Shipulina OY, Akimkin VG
EPI_ISL_467809	Cedars-Sinai Medical Center, Department of Pathology & Laboratory Medicine, Molecular Pathology Laboratory	Cedars-Sinai Medical Center, Molecular Pathology Laboratory of Department of Pathology & Laboratory Medicine and Genomic Core	Wenjuan Zhang, John Paul Govindaravi, Brian Davis, Stephanie Chen, Jong Taek Kim, Jianbo Song, Jean Lopategui, Jasmine T Plummer, Eric Vail
EPI_ISL_468134, EPI_ISL_468135, EPI_ISL_468136, EPI_ISL_468137, EPI_ISL_468138, EPI_ISL_468139, EPI_ISL_468140, EPI_ISL_468141, EPI_ISL_468143, EPI_ISL_468144, EPI_ISL_468145, EPI_ISL_468146, EPI_ISL_468147, EPI_ISL_468148, EPI_ISL_468149, EPI_ISL_468150, EPI_ISL_468153, EPI_ISL_468154, EPI_ISL_468155, EPI_ISL_468156, EPI_ISL_468158	[Romania, Bucharest] National Institute for Infectious Diseases "Prof. Dr. Matei Bals"	Leontina Banica, Marius Cotici, Corina Casangiu, Marius Surleac, Simona Paraschiv	
see above	[Romania, Bucharest] National Institute for Infectious Diseases "Prof. Dr. Matei Bals"		
EPI_ISL_468305, EPI_ISL_468307	Centro de Vigilancia a Saude de Diadema	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468308	Hospital Municipal do Tatuapé Carmínio Caricchio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468310	Hospital São Paulo de Ensino da UNIFESP	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468311, EPI_ISL_468312	Hospital Municipal Dr Ignacio Proenca de Gouveia	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468313	Vigilância Epidemiológica de São Bernardo do Campo	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468314	CTA Centro de Testagem e Aconselhamento	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468315	Hospital Municipal do Tatuapé Carmínio Caricchio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468316	UPA Vila Assis	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468318	Hospital Universitário da USP	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468319	Vigilância Epidemiológica de São Bernardo do Campo	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468320	Secretaria Municipal de Saúde de Hortolandia	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468321	Hospital Universitário da USP	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Cláudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_468591, EPI_ISL_468656	Institute for Public Health	Laboratory for advanced genomics	Filip Rokíc, Lovro Trgovec-Greif, Neven Šučić, Tomislav Rukavina, Igor Jurak, Oliver梧Gresek
EPI_ISL_468765, EPI_ISL_468766, EPI_ISL_468768, EPI_ISL_468771, EPI_ISL_468772, EPI_ISL_468774, EPI_ISL_468775, EPI_ISL_468780, EPI_ISL_468782, EPI_ISL_468788, EPI_ISL_468791, EPI_ISL_468793, EPI_ISL_468795, EPI_ISL_468798, EPI_ISL_468800, EPI_ISL_468801, EPI_ISL_468804, EPI_ISL_468805, EPI_ISL_468808, EPI_ISL_468809, EPI_ISL_468810, EPI_ISL_468811, EPI_ISL_468812, EPI_ISL_468814, EPI_ISL_468815, EPI_ISL_468816, EPI_ISL_468817, EPI_ISL_468818, EPI_ISL_468820, EPI_ISL_468821, EPI_ISL_468822, EPI_ISL_468823, EPI_ISL_468824, EPI_ISL_468825, EPI_ISL_468826, EPI_ISL_468827, EPI_ISL_468828, EPI_ISL_468829, EPI_ISL_468830, EPI_ISL_468831, EPI_ISL_468832, EPI_ISL_468833, EPI_ISL_468834, EPI_ISL_468835, EPI_ISL_468836, EPI_ISL_468837, EPI_ISL_468838, EPI_ISL_468839, EPI_ISL_468840, EPI_ISL_468841, EPI_ISL_468842, EPI_ISL_468843, EPI_ISL_468844, EPI_ISL_468845, EPI_ISL_468846, EPI_ISL_468847, EPI_ISL_468848, EPI_ISL_468849, EPI_ISL_468850, EPI_ISL_468851, EPI_ISL_468852, EPI_ISL_468853, EPI_ISL_468854, EPI_ISL_468855, EPI_ISL_468856, EPI_ISL_468857, EPI_ISL_468858, EPI_ISL_468859	Antonio Rezusta López, Alexander Tristánchó Baró, Ana Milagro, Yolanda Gracia Grataloup, Nieves Martínez Cameo and SeqCOVID-SPAIN consortium		
see above	Servicio de Microbiología, Hospital Miguel Servet, Zaragoza	SeqCOVID-SPAIN consortium/B(CSIC)	Parisi A., Pesole G., Manzari C., Chiara M.
EPI_ISL_468914	Istituto Zooprofilattico Sperimentale Puglia e Basilicata; Dipartimento di Bioscienze, Bioteecnologie e Biofarmaceutica dell'Università degli Studi di Bari "A.Moro"; Istituto di Biomembrane, Bioenergetica e Biotecnologie Molecolari del Consiglio Nazionale delle Ricerca	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Milan	

EPI_ISL_469020, EPI_ISL_46902	Istituto Zooprofilattico Sperimentale Puglia e Basilicata; Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica dell'Università degli Studi di Bari "A.Moro"; Istituto di Biomembrane, Bioenergetica e Biotecnologie Molecolari del Consiglio Nazionale delle Ricerche di Bari	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Milan	Ricerche di Bari	Parisi A., Pesole G., Manzari C., Chiara M.
EPI_ISL_469023	Istituto Zooprofilattico Sperimentale Puglia e Basilicata; Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica dell'Università degli Studi di Bari "A.Moro"; Istituto di Biomembrane, Bioenergetica e Biotecnologie Molecolari del Consiglio Nazionale delle Ricerche di Bari	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Milan	Ricerche di Bari	Parisi A., Pesole G., Manzari C., Chiara M.
EPI_ISL_469024	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	B.J. Medical College and Civil hospital
EPI_ISL_469025	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	B.J. Medical College and Civil hospital
EPI_ISL_469026	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	B.J. Medical College and Civil hospital
EPI_ISL_469027	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	B.J. Medical College and Civil hospital
EPI_ISL_469028	B.J. Medical College and Civil hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	B.J. Medical College and Civil hospital
EPI_ISL_469029	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469030	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469031	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469032	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469033	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469034	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469035	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469036	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Government Medical College, Vadodara
EPI_ISL_469037	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469038	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469039	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469040	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469041	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469042	GMERS Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	GMERS Medical College & Hospital
EPI_ISL_469043	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dr. N. D. Desai Medical College & Hospital
EPI_ISL_469044	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dr. N. D. Desai Medical College & Hospital
EPI_ISL_469045	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dr. N. D. Desai Medical College & Hospital
EPI_ISL_469046	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dr. N. D. Desai Medical College & Hospital
EPI_ISL_469047	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Dr. N. D. Desai Medical College & Hospital
EPI_ISL_469048	Banas Medical College and Research Institute	Gujarat Biotechnology Research Centre	Gujarat Biotechnology Research Centre	Banas Medical College and Research Institute
EPI_ISL_469275	Egyptian National Cancer Institute (ENCI)	Human Genome Center	Human Genome Center	Egyptian National Cancer Institute (ENCI)
EPI_ISL_469282	Service de Virologie Hôpital Saint-Louis	Laboratory of Cell Biology of viral infection, Unit INSERM-U944	Laboratory of Cell Biology of viral infection, Unit INSERM-U944	Service de Virologie Hôpital Saint-Louis
EPI_ISL_469283, EPI_ISL_469284	Service de Virologie Hôpital Saint-Louis	Laboratory Cell Biology of Viral Infection-INSERM unit 944	Laboratory Cell Biology of Viral Infection-INSERM unit 944	Service de Virologie Hôpital Saint-Louis
EPI_ISL_470896	Russian State Collection of Viruses	Pathogenic Microorganisms Variability Laboratory	Pathogenic Microorganisms Variability Laboratory	Russian State Collection of Viruses
EPI_ISL_470897, EPI_ISL_470898, EPI_ISL_470899	Pathogenic Microorganisms Variability Laboratory	Pathogenic Microorganisms Variability Laboratory	Pathogenic Microorganisms Variability Laboratory	Pathogenic Microorganisms Variability Laboratory

EPI_ISL_470900, EPI_ISL_470901, EPI_ISL_470902	Influenza etiology and epidemiology laboratory	Pathogenic Microorganisms Variability Laboratory	Alexey Shchetinin, Maria Nikiforova, Elena Shidlovskaya, Nadezhda Kuznetsova, Vladimir Gushchin, Inna Dolzhikova, Daria Grousova, Andrey Botikov, Denis Logunov, Kirill Krasnoslobotsev, Svetlana Trushakova, Elena Burtseva, Ludmila Kolobukhina, Svetlana Smetanina, Alexander Gintsburg
EPI_ISL_470903, EPI_ISL_470904	Influenza etiology and epidemiology laboratory	Pathogenic Microorganisms Variability Laboratory	Alexey Shchetinin, Maria Nikiforova, Elena Shidlovskaya, Nadezhda Kuznetsova, Vladimir Gushchin, Inna Dolzhikova, Daria Grousova, Andrey Botikov, Denis Logunov, Anna Ignatjeva, Evgeniya Mukasheva, Elena Burtseva, Ludmila Kolobukhina, Svetlana Smetanina, Alexander Gintsburg
EPI_ISL_471158, EPI_ISL_471163, EPI_ISL_471164, EPI_ISL_471167, EPI_ISL_471171	MRCG at LSHTM Genomics lab	MRCG at LSHTM Genomics lab	Sesay et al
EPI_ISL_471267	Hospital IESS Babahoyo	Institute of Microbiology, Universidad San Francisco de Quito	Sully Márquez, Belén Prado-Vivar, Juan José Guadalupe, Bernardo Gutiérrez, Francisco Cordova, Ninfa Henriquez, Killen Briones-Zamora, Killen Briones-Claudette, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_471269	Hospital Oncológico Solca Núcleo de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Sully Márquez, Belén Prado-Vivar, Juan José Guadalupe, Bernardo Gutiérrez, Marcos Di Stefano, Grace Salazar, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_471270	Hospital Oncológico Solca Núcleo de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Sully Márquez, Belén Prado-Vivar, Juan José Guadalupe, Bernardo Gutiérrez, Marcos Di Stefano, Grace Salazar, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_471271	Hospital Oncológico Solca Núcleo de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Sully Márquez, Belén Prado-Vivar, Juan José Guadalupe, Bernardo Gutiérrez, Marcos Di Stefano, Grace Salazar, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_471414, EPI_ISL_471417, EPI_ISL_471419, EPI_ISL_471420, EPI_ISL_471422, EPI_ISL_471423, EPI_ISL_471424	Laboratory for Respiratory Viruses, National Influenza Centre, Cantacuzino National Military-Medical Institute for Research and Development	Cantacuzino Institute	Luiza Ustea, Nicoleta Paraschiv, Tim Durfee, Mihaela Lazar
EPI_ISL_471456, EPI_ISL_471457, EPI_ISL_471458, EPI_ISL_471459, EPI_ISL_471460	Centre de Virologie des Maladies Tropicales	Functional Genomic Platform/Service Analyses Biologique/UATRS/ Centre National Pour la Recherche Scientifique Et Technique (CNRS)	Hicham ANNAZ, Elmoustafa EL FAHIME, Marouane MELLOUL, Yassine AKHOUD, Mly Abdelaziz ELALAOUI, Ahmed REGGAD, Sanaa ALAOUI-Amine , Rachid ABI, Rida TAGAJID, Zhor KASMY, Safaa ELKORCHI, Nadia TOUIL, Farida HILALI, Abdellader LAATIRIS , Abdellah LARAQUI, Tahra BAJOU , Yassine SEKHOSHK, Idriss-Amine LAHLOU, Mostafa ELOUENNAS, Khalid ENNIBI
EPI_ISL_471472	Hospital Universitari Germans Trias i Pujol(HUTGIP)/Fundació Lluita contra la SIDA (FLSida)/IRTA-CRESA	IrsiCaixa AIDS Research Lab	Marc Noguera-Julian, Pilar Armengol, Jordi Rodón, Julia Vergara, Lidia Ruiz, Nuria Izquierdo, Jorge Carrillo, Roger Paredes, Albert Bensaid, Julia Blanco, Joaquim Segalés, Bonaventura Clotet
EPI_ISL_471528, EPI_ISL_471530	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471539	Hospital Universitario da USP São Paulo	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471540	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471541	Hospital Geral Santa Marcelina	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471542	Secretaria de Saude de Mogi das Cruzes	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471543	Centro de Saude I Tacito Leite de Carvalho e Silva	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471544	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471545	Hospital Sao Paulo de Ensino da Unifesp	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471546	AMA DR Jose Soares Hungria	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471547	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471548	Hospital do Servidor Público Estadual Francisco Morato de Oliveira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471549	Hospital Municipal Carmen Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471550	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471551	Hospital Sao Paulo de Ensino da Unifesp	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471552	Hospital Sancta Maggiore	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471553	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471554	Hospital Bosque da Saúde	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471555	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471556	Pronto Socorro Jose Ibrahin	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_471562, EPI_ISL_471581, EPI_ISL_471582	Hosp. Municipal Prof. Dr. Alípio Corrêa Netto	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471647	Hospital Municipal de Barueri Dr. Francisco Moran	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471648	UBS e Pronto Socorro Jd. Jacira	Gujarat Biotechnology Research Centre	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_475026	Banas Medical College and Research Institute	Gujarat Biotechnology Research Centre	Sunil R Joshi, Viren s Doshi, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Radhika Kharha, Neha Rajpara, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475027	Banas Medical College and Research Institute	Gujarat Biotechnology Research Centre	Viren s Doshi, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Radhika Kharha, Sunil R Joshi, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475028	Banas Medical College and Research Institute	Gujarat Biotechnology Research Centre	Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Radhika Kharha, Sunil R Joshi, Viren s Doshi, Pritesh Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475029	Banas Medical College and Research Institute	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Radhika Kharha, Sunil R Joshi, Viren s Doshi, Pritesh Sabara, Neelam Nathani, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475030	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naresh Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Arni Chaudhari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475031	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Bhavya Jindal, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475032	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Priyanka P Vatsa, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475033	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Poja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475034	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Akansha Verma, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475035	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Priti Pandita, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475036	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Pragya Sharma, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475037	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Akansha Verma, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475038	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Snehal Bagatharia, Priyanka P Vatsa, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475039	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Priti Pandita, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475040	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Poja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475043	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Naren Chauhan, Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Priyanka P Vatsa, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_475044	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Summaiya Mullan, Amit gamit, Pritesh Sabara, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhji Pandya, Snehal Bagatharia, Naren Chauhan, Poja P Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi



EPI_ISL_476868	Banaras Medical College and Research Institute	Gujarat Biotechnology Research Centre	Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476869	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Radhika Khara, Sunil Joshi, Viren s Doshi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476870	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476871	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476872	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476873	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476874	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476875	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476876	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476877	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476878	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476879	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476880	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476881	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476882	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_476883, EPI_ISL_476884, EPI_ISL_476885, EPI_ISL_476886, EPI_ISL_476887, EPI_ISL_476888, EPI_ISL_476889, EPI_ISL_476890, EPI_ISL_476891, EPI_ISL_476892, EPI_ISL_476893, EPI_ISL_476894, EPI_ISL_476895, EPI_ISL_476896	see above	Defence Research & Development Establishment (DRDE)	Shashi Sharma, Pavan Kumar Dash, Sushil Kumar Sharma, Ambuj Shrivastava, Jyoti S. Kumar
EPI_ISL_477015	Institute of Microbiology, Universidad San Franciscio de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Sully Márquez, Belén Prado-Vivar, Juan José Guadalupe, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Jorge Luis Velez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenes
EPI_ISL_477016	Institute of Microbiology, Universidad San Franciscio de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Juan José Guadalupe, Sully Márquez, Belén Prado-Vivar, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Jorge Luis Velez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenes
EPI_ISL_477143, EPI_ISL_477150, EPI_ISL_477155, EPI_ISL_477156	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Mamadou Malado Jallow, Marie Henriette Dior Ndione, Safietou Sankhe, Ousmane Faye, Amadou Alpha Sall,
EPI_ISL_477163	Laboratory of Dr. John Lednicky	University of Florida	John A. Lednicky, Maha A. Elbadry, Kuttichenan Subramaniam, Thomas B. Waltzek, John Glenn Morris, Jr.
EPI_ISL_477170	Department of Laboratory, Medicine Tan Tock Seng Hospital	Department of Laboratory Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_477171	Department of Laboratory, Medicine Tan Tock Seng Hospital	Department of Laboratory, Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_477172, EPI_ISL_477174, EPI_ISL_477175, EPI_ISL_477177, EPI_ISL_477178, EPI_ISL_477180, EPI_ISL_477182	Department of Laboratory Medicine Tan Tock Seng Hospital	Department of Laboratory Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_477183	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsahi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaya Mullan, Amit gamit, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_477184, EPI_ISL_477187, EPI_ISL_477188, EPI_ISL_477189, EPI_ISL_477190, EPI_ISL_477191, EPI_ISL_477192	Department of Laboratory Medicine Tan Tock Seng Hospital	Department of Laboratory Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_477193	Istituto Zootrofopatico Sperimentale Puglia e Basilicata;	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Mila	Parisi A., Pesole G., Manzari C., Chiara M.
EPI_ISL_479482, EPI_ISL_479483, EPI_ISL_479484, EPI_ISL_479485, EPI_ISL_479486, EPI_ISL_479487, EPI_ISL_479488, EPI_ISL_479489, EPI_ISL_479490, EPI_ISL_479491, EPI_ISL_479492	see above	Department of Laboratory Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_479493, EPI_ISL_479495, EPI_ISL_479498, EPI_ISL_479499, EPI_ISL_479501, EPI_ISL_479502, EPI_ISL_479505, EPI_ISL_479507, EPI_ISL_479509, EPI_ISL_479510, EPI_ISL_479512, EPI_ISL_479513, EPI_ISL_479514, EPI_ISL_479515, EPI_ISL_479516, EPI_ISL_479517, EPI_ISL_479519, EPI_ISL_479520, EPI_ISL_479522, EPI_ISL_479523, EPI_ISL_479524, EPI_ISL_479525, EPI_ISL_479526, EPI_ISL_479527, EPI_ISL_479528, EPI_ISL_479529, EPI_ISL_479530, EPI_ISL_479531, EPI_ISL_479532, EPI_ISL_479533, EPI_ISL_479534, EPI_ISL_479535, EPI_ISL_479536, EPI_ISL_479537, EPI_ISL_479538, EPI_ISL_479539, EPI_ISL_479540, EPI_ISL_479541, EPI_ISL_479543, EPI_ISL_479544, EPI_ISL_479546, EPI_ISL_479547, EPI_ISL_479548, EPI_ISL_479550, EPI_ISL_479551, EPI_ISL_479552, EPI_ISL_479553, EPI_ISL_479572	see above	Potdar V	
EPI_ISL_479616, EPI_ISL_479617	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Conflalonieri P, Conflalonieri M Marcello A
EPI_ISL_479618	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Conflalonieri P, Conflalonieri M, Marcello A
EPI_ISL_479619	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Conflalonieri P, Conflalonieri M, Marcello A
EPI_ISL_479620, EPI_ISL_479621, EPI_ISL_479622, EPI_ISL_479623, EPI_ISL_479624	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Speranskaya AS, Kapte洛ova VV, Val'dokhina AV, Bulanenko VP, Samoilov AE, Korneenko EV, Sizova TV, Tivanova EV, Shipulina OY, Akimkin VG
EPI_ISL_479657	NIV Influenza	NIV Influenza	Potdar V
EPI_ISL_479757, EPI_ISL_479758	National Institute of Hygiene and Epidemiology (NIHE)	National Key Laboratory of Gene Technology, Institute of Biotechnology (IBT)	Le Tung Lam, Nguyen Hong Trang, Ho Thi Thuong, Tran Huyen Linh, Ung Thi Hong Trang, Le Thi Thanh, Nguyen Vu Son, Vuong Duc Cuong, Tran Thu Huong, Pham Thi Hien, Nguyen Phuong Anh, Nguyen Le Khanh Hang, Hoang Vu Mai Phuong, Hoang Ha, Taichiro Takekura, Futoshi Hasebe, Chu Hoang Ha, Le Quynh Mai, Dang Duc Anh, Truong Nam Hai
EPI_ISL_479790	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Conflalonieri P, Conflalonieri M, Marcello A
EPI_ISL_479791	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Conflalonieri P, Conflalonieri M, Marcello A
EPI_ISL_479792, EPI_ISL_479793, EPI_ISL_479794, EPI_ISL_479795	Hokkaido Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Rika Komagome, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479796	Ishikawa Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Sanae Kuramoto, Eri Nariai, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479797, EPI_ISL_479798	Sagamihara City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroshi Nakamura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479799, EPI_ISL_479800	Sapporo City Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Asami Ohnishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479801	Hokkaido Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Rika Komagome, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479802, EPI_ISL_479803, EPI_ISL_479804	Sagamihara City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroshi Nakamura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479805, EPI_ISL_479806, EPI_ISL_479807, EPI_ISL_479808	Saitama Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hayato Ehara, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda



EPI_ISL_480025, EPI_ISL_480026, EPI_ISL_480027, EPI_ISL_480028, EPI_ISL_480029			
EPI_ISL_480030, EPI_ISL_480031, EPI_ISL_480032, EPI_ISL_480033, EPI_ISL_480034, EPI_ISL_480035, EPI_ISL_480036, EPI_ISL_480037, EPI_ISL_480038, EPI_ISL_480039, EPI_ISL_480040, EPI_ISL_480041 see above	Tochigi Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ako Nakajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480042, EPI_ISL_480043, EPI_ISL_480044, EPI_ISL_480045, EPI_ISL_480046, EPI_ISL_480047, EPI_ISL_480048, EPI_ISL_480049, EPI_ISL_480050, EPI_ISL_480051, EPI_ISL_480052, EPI_ISL_480053, EPI_ISL_480054, EPI_ISL_480055, EPI_ISL_480056, EPI_ISL_480057, EPI_ISL_480058, EPI_ISL_480059, EPI_ISL_480060, EPI_ISL_480061, EPI_ISL_480062, EPI_ISL_480063, EPI_ISL_480064 see above	Nagoya City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Takuya Miki, Shinichiro Shibata, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480065, EPI_ISL_480066, EPI_ISL_480067, EPI_ISL_480068, EPI_ISL_480069, EPI_ISL_480070, EPI_ISL_480071, EPI_ISL_480072 EPI_ISL_480073	Sakai City Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ako Nakajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480074, EPI_ISL_480075, EPI_ISL_480076, EPI_ISL_480077, EPI_ISL_480078, EPI_ISL_480079, EPI_ISL_480080, EPI_ISL_480081, EPI_ISL_480082	Tochigi Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ako Nakajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480083, EPI_ISL_480084, EPI_ISL_480085, EPI_ISL_480086, EPI_ISL_480087, EPI_ISL_480088, EPI_ISL_480089	Gifu Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Yoshihiko Kameyama, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480090, EPI_ISL_480091, EPI_ISL_480092, EPI_ISL_480093, EPI_ISL_480094, EPI_ISL_480095, EPI_ISL_480097, EPI_ISL_480098, EPI_ISL_480099, EPI_ISL_480100, EPI_ISL_480101, EPI_ISL_480102 see above	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480103, EPI_ISL_480104, EPI_ISL_480105, EPI_ISL_480106, EPI_ISL_480107, EPI_ISL_480108	Koshigaya City Public Health Center	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Yuka Furui, Aya Tamura, Kyohei Sakata, Takumi Daimon, Yoko Togawa, Yoshiko Hamada, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480109, EPI_ISL_480110, EPI_ISL_480111, EPI_ISL_480112, EPI_ISL_480113, EPI_ISL_480114, EPI_ISL_480115, EPI_ISL_480116, EPI_ISL_480117, EPI_ISL_480118, EPI_ISL_480119 see above	Oita Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Mari Sasaki, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480120, EPI_ISL_480121, EPI_ISL_480122, EPI_ISL_480123, EPI_ISL_480124, EPI_ISL_480125, EPI_ISL_480126, EPI_ISL_480127, EPI_ISL_480128, EPI_ISL_480129, EPI_ISL_480130, EPI_ISL_480131, EPI_ISL_480132, EPI_ISL_480133, EPI_ISL_480134, EPI_ISL_480135, EPI_ISL_480136, EPI_ISL_480138, EPI_ISL_480139, EPI_ISL_480140, EPI_ISL_480141, EPI_ISL_480142, EPI_ISL_480143, EPI_ISL_480144, EPI_ISL_480145, EPI_ISL_480146, EPI_ISL_480147, EPI_ISL_480148, EPI_ISL_480149, EPI_ISL_480150, EPI_ISL_480151, EPI_ISL_480152, EPI_ISL_480153, EPI_ISL_480154, EPI_ISL_480155, EPI_ISL_480156, EPI_ISL_480157, EPI_ISL_480158, EPI_ISL_480159, EPI_ISL_480160, EPI_ISL_480161, EPI_ISL_480162, EPI_ISL_480163, EPI_ISL_480164, EPI_ISL_480165, EPI_ISL_480166, EPI_ISL_480167, EPI_ISL_480168 see above	Fukui Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Miho Toho, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480169, EPI_ISL_480170, EPI_ISL_480171, EPI_ISL_480172, EPI_ISL_480173, EPI_ISL_480174, EPI_ISL_480175, EPI_ISL_480176, EPI_ISL_480177	Gunma Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroyuki Tsukagoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480178, EPI_ISL_480179 EPI_ISL_480180, EPI_ISL_480181, EPI_ISL_480182, EPI_ISL_480183, EPI_ISL_480184, EPI_ISL_480185, EPI_ISL_480186, EPI_ISL_480187, EPI_ISL_480188, EPI_ISL_480189	Hiroshima City Institute of Public Health Ibaraki Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kota Norisune, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Tsuyoshi Sekizuka, Keiko Goto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480190, EPI_ISL_480191, EPI_ISL_480192, EPI_ISL_480193, EPI_ISL_480194, EPI_ISL_480195	Ota Health Center Welfare Section	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Chika Takahashi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480197, EPI_ISL_480198, EPI_ISL_480199, EPI_ISL_480200, EPI_ISL_480201, EPI_ISL_480202, EPI_ISL_480203	Toyama Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Masaë Itamochi, Kazunori Oishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480204	Akita City Public Health Center	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Koichi Ito, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480205, EPI_ISL_480206, EPI_ISL_480207	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480208	Pathogen Genomics Center, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480209, EPI_ISL_480210, EPI_ISL_480211, EPI_ISL_480212, EPI_ISL_480213, EPI_ISL_480214, EPI_ISL_480215, EPI_ISL_480216, EPI_ISL_480217, EPI_ISL_480218, EPI_ISL_480219, EPI_ISL_480220 see above	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480221, EPI_ISL_480222, EPI_ISL_480223	Koshigaya City Public Health Center	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Yuka Furui, Aya Tamura, Kyohei Sakata, Takumi Daimon, Yoko Togawa, Yoshiko Hamada, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480226, EPI_ISL_480229, EPI_ISL_480230, EPI_ISL_480231, EPI_ISL_480232, EPI_ISL_480233, EPI_ISL_480234, EPI_ISL_480235, EPI_ISL_480236, EPI_ISL_480237, EPI_ISL_480238, EPI_ISL_480239, EPI_ISL_480240, EPI_ISL_480241, EPI_ISL_480242, EPI_ISL_480243, EPI_ISL_480244, EPI_ISL_480245, EPI_ISL_480246, EPI_ISL_480247, EPI_ISL_480248, EPI_ISL_480249, EPI_ISL_480250, EPI_ISL_480252, EPI_ISL_480253, EPI_ISL_480254, EPI_ISL_480255, EPI_ISL_480256, EPI_ISL_480257, EPI_ISL_480258, EPI_ISL_480259, EPI_ISL_480260, EPI_ISL_480261, EPI_ISL_480262, EPI_ISL_480263, EPI_ISL_480264, EPI_ISL_480265, EPI_ISL_480266, EPI_ISL_480267, EPI_ISL_480268, EPI_ISL_480269, EPI_ISL_480270, EPI_ISL_480271, EPI_ISL_480272, EPI_ISL_480273, EPI_ISL_480274, EPI_ISL_480275, EPI_ISL_480278, EPI_ISL_480281 see above	Genomic Laboratory (GLAB) (Conjoint lab of Health Directorate of Istanbul and Istanbul Technical University)	Genomic Laboratory (GLAB), Istanbul Technical University	Iller Karacan, Turba Kizilboga Akgun, Bugra Agaoglu, Gizem Alkurt, Jale Yildiz, Betsi Kose, Elifnaz Celik, Arzu Irven, Yasemin Kendir Demirkol, Ozlem Akgun Dogan, Mehtap Aydin, Levent Doganay, Gizem Dinler Doganay
EPI_ISL_480310	National Reference Laboratory "Influenza and acute respiratory diseases"	NRL-HIV	Ivan Ivanov, Ivailo Alexiev, Ivana Philipova
EPI_ISL_480554, EPI_ISL_480556, EPI_ISL_480783, EPI_ISL_480787, EPI_ISL_480789, EPI_ISL_481235, EPI_ISL_481236, EPI_ISL_481237, EPI_ISL_481239, EPI_ISL_481240, EPI_ISL_481243 see above	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_482575, EPI_ISL_482576, EPI_ISL_482577, EPI_ISL_482578, EPI_ISL_482579, EPI_ISL_482580, EPI_ISL_482581, EPI_ISL_482582, EPI_ISL_482583, EPI_ISL_482584, EPI_ISL_482585, EPI_ISL_482586 see above	Hangzhou Center for Diseases Control and Prevention	Hangzhou Center for Diseases Control and Prevention	Jun Li, Huaqiu Wang, Lingfeng Mao, Hua Yu, Xinfen Yu, Zhou Sun, Xin Qian, Shuchang Chen, Junfang Chen, Xuchu Wang
EPI_ISL_482672, EPI_ISL_482673, EPI_ISL_482674, EPI_ISL_482675, EPI_ISL_482676, EPI_ISL_482677, EPI_ISL_482678, EPI_ISL_482679, EPI_ISL_482680, EPI_ISL_482681, EPI_ISL_482682, EPI_ISL_482683, EPI_ISL_482684, EPI_ISL_482685, EPI_ISL_482686, EPI_ISL_482687, EPI_ISL_482688, EPI_ISL_482689, EPI_ISL_482690, EPI_ISL_482691, EPI_ISL_482692, EPI_ISL_482693, EPI_ISL_482694, EPI_ISL_482695, EPI_ISL_482696, EPI_ISL_482697, EPI_ISL_482698, EPI_ISL_482699 see above	Singapore General Hospital	Department of Microbiology	Nurdyana Abdul Rahman, Kun Lee Lim, Chenhao Li, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Niranjan Nagarajan, Karrie Ko, Giandhari J. Pillay S, Lessells R, Chimukangara B, Mdialose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_482702, EPI_ISL_482704, EPI_ISL_482705, EPI_ISL_482706, EPI_ISL_482707, EPI_ISL_482708, EPI_ISL_482709	Molecular Diagnostics Services (MDS)	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S, Lessells R, Chimukangara B, Mdialose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_482710, EPI_ISL_482711, EPI_ISL_482712, EPI_ISL_482713 EPI_ISL_482714, EPI_ISL_482715, EPI_ISL_482716, EPI_ISL_482717, EPI_ISL_482718, EPI_ISL_482719, EPI_ISL_482720, EPI_ISL_482721, EPI_ISL_482722, EPI_ISL_482723 EPI_ISL_482726	NHLS-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S, Lessells R, Chimukangara B, Mdialose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_482759, EPI_ISL_482760, EPI_ISL_482761, EPI_ISL_482762, EPI_ISL_482763, EPI_ISL_482764, EPI_ISL_482765, EPI_ISL_482766, EPI_ISL_482767, EPI_ISL_482768, EPI_ISL_482770, EPI_ISL_482771, EPI_ISL_482772, EPI_ISL_482773, EPI_ISL_482774 see above	Medical Ain Shams Research Institute (MASRI), Ain Shams University	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S, Lessells R, Chimukangara B, Mdialose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
			Hesham Elghazaly, Sara Hassan Agwa, Ahmad Moustafa, Hala Hafez, Sara Elnakeeb, Shaimaa Moustafa, Aya Mohamed, Reham Mamdouh, Ghada Ismael, Ashraf Omar, Osama Mansour, Mahmoud Elmeltini



EPI_ISL_483855	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Labdh Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghwendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483856	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghwendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483857	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghwendra Kumar, Dinesh Kumar, Zuber Saiyed, Stefan cel Mare, University Metagenomics lab
EPI_ISL_483858	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_483859	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_483860	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Lobici Andrei et al.
EPI_ISL_483861	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Lobici Andrei et al.
EPI_ISL_483862	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483863	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483864	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483865	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483866	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483867	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483868	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483869	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483870	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483871	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483872	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483873	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483874	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483875	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483876	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483877	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483878	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_483879	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_485635, EPI_ISL_485708, EPI_ISL_485710	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_485712	Institut Pasteur	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_485713, EPI_ISL_485715, EPI_ISL_485716, EPI_ISL_485717	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_486382	District Surveillance Unit	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486383	CV Raman Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486388, EPI_ISL_486389	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486392	Victoria Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486394	MIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486395	BIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486397	KC General Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486398, EPI_ISL_486399	MIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486400	Victoria Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486405, EPI_ISL_486408, EPI_ISL_486409	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486815, EPI_ISL_486816, EPI_ISL_486817, EPI_ISL_486818, EPI_ISL_486819, EPI_ISL_486820, EPI_ISL_486821, EPI_ISL_486823, EPI_ISL_486824, EPI_ISL_486825, EPI_ISL_486826, EPI_ISL_486827, EPI_ISL_486828, EPI_ISL_486829	see above	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Speranskaya AS, Kapte洛ova VV, Valdokhina AV, Bulanenko VP, Samoilov AE, Korneenko EV, Tivanova EV, Shipulina OY, Akimkin VG
EPI_ISL_486834	Suceava County Emergency Hospital "Sf. Ioan cel Nou"	SMU Metagenomics lab	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Fausto Maldonado, Geovanny Carzola, Verónica Barragán, Patricio Rojas-Silva, Gabriel Grunauer, Paul Cárdenas
EPI_ISL_486842, EPI_ISL_486843, EPI_ISL_486844	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Jonathan Araujo, Verónica Barragán, Patricio Rojas-Silva, Gabriel Grunauer, Paul Cárdenas
EPI_ISL_486845, EPI_ISL_486846, EPI_ISL_486847, EPI_ISL_486848, EPI_ISL_486849, EPI_ISL_486850, EPI_ISL_486851	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Jonathan Araujo, Verónica Barragán, Patricio Rojas-Silva, Gabriel Grunauer, Paul Cárdenas
EPI_ISL_486852	CDRI/SGPGI	CSIR-CDRI/SGPGI	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_486853	CSIR-CDRI/SGPGI	CSIR-CDRI/SGPGI	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_486854	Emergency County Hospital Suceava	Stefan cel Mare, University Metagenomics lab	Lobici Andrei et al.
EPI_ISL_486855	Emergency County Hospital	Stefan cel Mare, University Metagenomics lab	Lobici Andrei et al.
EPI_ISL_486859, EPI_ISL_486860, EPI_ISL_486861, EPI_ISL_486862, EPI_ISL_486863, EPI_ISL_486864, EPI_ISL_486865, EPI_ISL_486866, EPI_ISL_486867, EPI_ISL_486868, EPI_ISL_486869, EPI_ISL_486870, EPI_ISL_486871, EPI_ISL_486872, EPI_ISL_486873	see above	Institut Pasteur Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_486876	Clinical Microbiology Laboratory- Basurto University Hospital	Biocruces-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ulgate-Zarraga, José Luis Diaz de Tuesta del Arco
EPI_ISL_486881	CV Raman Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Patabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram

EPI\_ISL\_487107

Nigeria Centre for Disease Control (NCDC)

African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State, Nigeria

Olunyi P.E., Ajogbasile F.V., Kayode A., Oguzie J., Olawoye I., Uwanibe J., Olumade T., Folarin O.A., Ihekweazu C., Happi C.T.

EPI_ISL_487277, EPI_ISL_487280, EPI_ISL_487281, EPI_ISL_487288, EPI_ISL_487295, EPI_ISL_487297, EPI_ISL_487304, EPI_ISL_487308, EPI_ISL_487311, EPI_ISL_487312, EPI_ISL_487313, EPI_ISL_487314, EPI_ISL_487316, EPI_ISL_487318, EPI_ISL_487319, EPI_ISL_487320, EPI_ISL_487321, EPI_ISL_487324, EPI_ISL_487325, EPI_ISL_487328	see above NHLS-ILACH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_487329, EPI_ISL_487330, EPI_ISL_487332, EPI_ISL_487334, EPI_ISL_487336, EPI_ISL_487337, EPI_ISL_487338, EPI_ISL_487339, EPI_ISL_487340	Molecular Diagnostics Services (MDS)	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_487377, EPI_ISL_487381	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Vasiliki Pogka, Timokratis Karamitros, Athanasios Kossyvakis, Antonios Kalliaropoulos, Horefti Elina, Evangelidou Maria, Androniki Voulgari-Kokota, Aspasia Kontou, Andreas Mentis
EPI_ISL_487432, EPI_ISL_487433, EPI_ISL_487434, EPI_ISL_487435, EPI_ISL_487436	Queen Astrid Military Hospital	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony
EPI_ISL_489708	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_489709	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_489833	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco
EPI_ISL_489834	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco
EPI_ISL_489835	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Diaz de Tuesta del Arco
EPI_ISL_489995	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_490101	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R
EPI_ISL_490103	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R
EPI_ISL_490106	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_490112	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_490202	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco
EPI_ISL_490203	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Diaz de Tuesta del Arco
EPI_ISL_490204	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Diaz de Tuesta del Arco
EPI_ISL_490977	Clinical Microbiology Laboratory- Basurto University Hospital	BioCrustes-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Diaz de Tuesta del Arco
EPI_ISL_491092	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_491093, EPI_ISL_491094, EPI_ISL_491095	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_491096, EPI_ISL_491114	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_491115	Cicin-Sain Lab	Cicin-Sain Lab	M. Zeeshan Chaudhry, Kathryn Eschke, Yeonso Kim, Luca Cicin-Sain
EPI_ISL_491117	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_491118	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_491436	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galaza Perez, Maribel Huaranga Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano
EPI_ISL_491437	Area de Salud Escazú (Cooperativa)	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491438	Hospital San Rafael de Alajuela	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491439	Hospital Calderon Guardia	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491440	Hospital San Rafael de Alajuela	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491441, EPI_ISL_491442	Hospital Clinica Bíblica	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491443	Hospital Fernando Escalante Pradilla	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491444	Area de Salud Escazú (Cooperativa)	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491445	Area de Salud Mata Redonda	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491446	Area de Salud Alajuela Central	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491447	Hospital Fernando Escalante Pradilla	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491448	Hospital San Rafael de Alajuela	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491449	Area de Salud Alajuela Sur	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491450	Hospital San Juan de Dios	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491451	Hospital México	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491452	Hospital San Rafael de Alajuela	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491453	Hospital México	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491454	Hospital San Juan de Dios	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491455	Hospital Clínica Bíblica	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491456	Hospital San Juan de Dios	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491457	Area de Salud Los Santos	Incienisa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_491463	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galaza Perez, Maribel Huaranga Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano
EPI_ISL_491479	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvarkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_491968, EPI_ISL_491969, EPI_ISL_491970, EPI_ISL_491973, EPI_ISL_491974, EPI_ISL_491976, EPI_ISL_491978, EPI_ISL_491979, EPI_ISL_491980, EPI_ISL_491981, EPI_ISL_491982, EPI_ISL_491983, EPI_ISL_491984, EPI_ISL_491985, EPI_ISL_491986, EPI_ISL_491988, EPI_ISL_491989, EPI_ISL_491990, EPI_ISL_491991, EPI_ISL_491992, EPI_ISL_491994, EPI_ISL_491995, EPI_ISL_491996, EPI_ISL_491997, EPI_ISL_491998, EPI_ISL_491999, EPI_ISL_492000, EPI_ISL_492001, EPI_ISL_492002, EPI_ISL_492003, EPI_ISL_492005, EPI_ISL_492006, EPI_ISL_492007, EPI_ISL_492009, EPI_ISL_492010, EPI_ISL_492011, EPI_ISL_492012, EPI_ISL_492014, EPI_ISL_492016, EPI_ISL_492017, EPI_ISL_492019, EPI_ISL_492020, EPI_ISL_492021, EPI_ISL_492022, EPI_ISL_492023, EPI_ISL_492024, EPI_ISL_492025, EPI_ISL_492026	see above Oman-NIC	Department of Microbiology and Immunology-SQUH	Fahad Zadjali, Samira Al-Marqui, Amina Al Jardani, Khulood Al-Mammary, Hanan Al-kindt, Fatma BaAlawi, Hamida AL Barwani, Zeyana AL-Dahmani, Intisar Al-Shukri, Aisha Al-Busaidi, Aisha Al-Amri, Ahlam Al-Amri, Mohammed Al-Tobi, Samha Al Kharous, Abdulla Balkhair
EPI_ISL_492033	Instituto de Biología do Exército	Laboratório Metabolismo Macromolecular FirmoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Elizabeth Valentim, Marcio da Costa Capitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva
EPI_ISL_492034	Instituto de Biología do Exército	Laboratório Metabolismo Macromolecular FirmoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Elizabeth Valentim, Marcio da Costa Capitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva
EPI_ISL_492035	Instituto de Biología do Exército	Laboratório Metabolismo Macromolecular FirmoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Elizabeth Valentim, Marcio da Costa Capitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva
EPI_ISL_492036	Instituto de Biología do Exército	Laboratório Metabolismo Macromolecular FirmoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Elizabeth Valentim, Marcio da Costa Capitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva
EPI_ISL_492038	Instituto de Biología do Exército	Laboratório Metabolismo Macromolecular FirmoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Elizabeth Valentim,





EPI_ISL_496534	B.J. Govt. Medical College	National Centre For Cell Science	Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhar Lal, Rajesh Karyakarte, Suvarna Joshi, Muridhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium, Yugesh S Shouche
EPI_ISL_496537, EPI_ISL_496540, EPI_ISL_496541, EPI_ISL_496542, EPI_ISL_496543, EPI_ISL_496544, EPI_ISL_496545	Armed Forces Medical College	National Centre For Cell Science	Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhar Lal, Rajesh Karyakarte, Suvarna Joshi, Muridhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium, Yugesh S Shouche
EPI_ISL_496548, EPI_ISL_496549, EPI_ISL_496551	B.J. Govt. Medical College	National Centre For Cell Science	Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhar Lal, Rajesh Karyakarte, Suvarna Joshi, Muridhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium, Yugesh S Shouche
EPI_ISL_496555, EPI_ISL_496556, EPI_ISL_496557, EPI_ISL_496559, EPI_ISL_496560, EPI_ISL_496571, EPI_ISL_496581, EPI_ISL_496587	National Centre For Cell Science	National Centre For Cell Science	Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhar Lal, Rajesh Karyakarte, Suvarna Joshi, Muridhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium, Yugesh S Shouche
EPI_ISL_497738, EPI_ISL_497739, EPI_ISL_497744, EPI_ISL_497745	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Nicolas D. Franco-Sierra, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Osrina Martínez, Marcela Mercado-Reyes
EPI_ISL_497758, EPI_ISL_497760	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497762, EPI_ISL_497763	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497764	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497765	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497766	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497767	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh
EPI_ISL_497950	Shaoxing CDC	Zhejiang Provincial Center for Disease Control and Prevention	Yin Chen, Yanjun Zhang, Haiyan Mao, Junhang Pan, Xiyu Lou, Yi Sun, Hao Yan, Zhen Li, Wen Shi
EPI_ISL_498085, EPI_ISL_498060, EPI_ISL_498061, EPI_ISL_498062, EPI_ISL_498064, EPI_ISL_498065, EPI_ISL_498066, EPI_ISL_498067, EPI_ISL_498070, EPI_ISL_498072, EPI_ISL_498073, EPI_ISL_498074, EPI_ISL_498075, EPI_ISL_498078, EPI_ISL_498079, EPI_ISL_498080, EPI_ISL_498081, EPI_ISL_498092, EPI_ISL_498093, EPI_ISL_498094, EPI_ISL_498095, EPI_ISL_498096, EPI_ISL_498097, EPI_ISL_498098, EPI_ISL_498099, EPI_ISL_498100, EPI_ISL_498101, EPI_ISL_498102, EPI_ISL_498103, EPI_ISL_498104, EPI_ISL_498105, EPI_ISL_498106, EPI_ISL_498107, EPI_ISL_498108, EPI_ISL_498109, EPI_ISL_498110, EPI_ISL_498111, EPI_ISL_498112, EPI_ISL_498113, EPI_ISL_498114, EPI_ISL_498115, EPI_ISL_498116, EPI_ISL_498117, EPI_ISL_498118, EPI_ISL_498119, EPI_ISL_498120, EPI_ISL_498121, EPI_ISL_498122, EPI_ISL_498123, EPI_ISL_498124, EPI_ISL_498125, EPI_ISL_498126	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T		
see above	NHLS-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Nicolas D. Franco-Sierra, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Osrina Martínez, Marcela Mercado-Reyes
EPI_ISL_498152, EPI_ISL_498153, EPI_ISL_498154, EPI_ISL_498155, EPI_ISL_498156, EPI_ISL_498157, EPI_ISL_498158, EPI_ISL_498159, EPI_ISL_498160, EPI_ISL_498161, EPI_ISL_498162, EPI_ISL_498163, EPI_ISL_498164, EPI_ISL_498165, EPI_ISL_498166, EPI_ISL_498167, EPI_ISL_498168, EPI_ISL_498169, EPI_ISL_498170	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Nguyen Van Chau, Nguyen Thi Huong, Nguyen Thi Han Ny, Le Nguyen Truc Nhu, Nghiêm My Ngoc, Vo Thanh Lam, Nguyen Thanh Dung, Lam Minh Yen, Ngu Ngoc Quang Minh, Le Manh Hung, Nguyen Tri Dung, Dinh Nguyen Huy Man, Lam Anh Nguyet, Tran Chanh Xuan, Tran Tinh Hien, Nguyen Thanh Phong, Tran Nguyen Hoang Tu, Tran Tan Thanh, Nguyen Thanh Truong, Nguyen Tan Binh, Tang Chi Thuong, Guy Thwaites, and Le Van Tan, for OUCRU COVID-19 research group*
see above	OUCRU	OUCRU	OUCRU
EPI_ISL_498171, EPI_ISL_498172, EPI_ISL_498173, EPI_ISL_498174, EPI_ISL_498175, EPI_ISL_498176, EPI_ISL_498177, EPI_ISL_498178, EPI_ISL_498179, EPI_ISL_498180, EPI_ISL_498181, EPI_ISL_498182, EPI_ISL_498183, EPI_ISL_498184, EPI_ISL_498185, EPI_ISL_498186, EPI_ISL_498187, EPI_ISL_498188, EPI_ISL_498189, EPI_ISL_498190, EPI_ISL_498191, EPI_ISL_498192, EPI_ISL_498193, EPI_ISL_498194, EPI_ISL_498195, EPI_ISL_498196, EPI_ISL_498197	NDongo Dia, Moussa Moise Diagne, Mamadou Diop, Marie Henriette Dior Dndione, Mamadou Malade Jallow, Safietou Sankehe Mbengue, Ousmane Faye, Amadou Alpha Sall.		
see above	OUCRU	OUCRU	OUCRU
EPI_ISL_498229, EPI_ISL_498230, EPI_ISL_498236, EPI_ISL_498238, EPI_ISL_498242, EPI_ISL_498243, EPI_ISL_498249, EPI_ISL_498250, EPI_ISL_498554	Institut Pasteur de Dakar	Institut Pasteur de Dakar	Abi Habib W., Abdallah J., El Shesheny R., Mokhbat J., Webby R.J., Goldstein J. and Kayali G.
EPI_ISL_498558, EPI_ISL_498559, EPI_ISL_498560, EPI_ISL_498561, EPI_ISL_498562	Laboratory of Molecular Virology International Center for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Marcello A
EPI_ISL_498563	Laboratory of Molecular Virology International Center for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Marcello A
EPI_ISL_499083	Instituto de Virología "Dr. J. M. Vanella", Facultad de Ciencias Medicas, Universidad Nacional de Cordoba, Laboratorio Central de la Provincia de Cordoba, Argentina. Ministerio de Salud de la provincia de Cordoba, Argentina.	Laboratorio de Virología, Hospital de Niños Ricardo Gutiérrez, CABA, Argentina.	Sandra Gallego, Brenda Konigheim, Sebastian Blanco, Lorena Spinsanti, Javier Aguilar, Adrian Diaz, Gonzalo Castro, Gabriela Barbas, Mercedes Nabaes, Stephanie Goya, Monica Natale, Silvina Lusso, Mariana Viegas.
EPI_ISL_500539, EPI_ISL_500540, EPI_ISL_500541, EPI_ISL_500542, EPI_ISL_500543, EPI_ISL_500544, EPI_ISL_500545, EPI_ISL_500546, EPI_ISL_500547, EPI_ISL_500548, EPI_ISL_500549, EPI_ISL_500550, EPI_ISL_500551, EPI_ISL_500552, EPI_ISL_500553, EPI_ISL_500554, EPI_ISL_500555, EPI_ISL_500556, EPI_ISL_500557, EPI_ISL_500558, EPI_ISL_500559, EPI_ISL_500560, EPI_ISL_500561, EPI_ISL_500562, EPI_ISL_500563, EPI_ISL_500564, EPI_ISL_500565, EPI_ISL_500566, EPI_ISL_500567, EPI_ISL_500568, EPI_ISL_500569, EPI_ISL_500570, EPI_ISL_500571, EPI_ISL_500572	see above	Singapore General Hospital	Nurdyana Abdul Rahman, Kun Lee Lin, Chenhai Li, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Niranjan Nagarajan, Karrie Ko
EPI_ISL_500946	GMERS Medical College & Hospital, Gotri, Vadodara	Department of Microbiology	Zuber Sayied, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasini Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_500947	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Narench Chauhan, Summaya Mullan, Amit gamit, Apurvasini Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_500948	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zuber Sayied, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Narench Chauhan, Summaya Mullan, Amit gamit, Apurvasini Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_500949	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Narench Chauhan, Summaya Mullan, Amit gamit, Apurvasini Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_500950	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Labdh Pandya, Afzal Ansari, Nikha Trivedi, Narench Chauhan, Summaya Mullan, Amit gamit, Apurvasini Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savalya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_501169, EPI_ISL_501171, EPI_ISL_501172, EPI_ISL_501173, EPI_ISL_501174, EPI_ISL_501175, EPI_ISL_501176, EPI_ISL_501177, EPI_ISL_501178, EPI_ISL_501179, EPI_ISL_501180, EPI_ISL_501181, EPI_ISL_501182, EPI_ISL_501183, EPI_ISL_501184, EPI_ISL_501185, EPI_ISL_501186, EPI_ISL_501187, EPI_ISL_501188, EPI_ISL_501189, EPI_ISL_501190, EPI_ISL_501191, EPI_ISL_501192, EPI_ISL_501193, EPI_ISL_501194, EPI_ISL_501195, EPI_ISL_501196, EPI_ISL_501197, EPI_ISL_501198, EPI_ISL_501199, EPI_ISL_501200, EPI_ISL_501201, EPI_ISL_501202, EPI_ISL_501203, EPI_ISL_501204, EPI_ISL_501205, EPI_ISL_501206, EPI_ISL_501207, EPI_ISL_501208, EPI_ISL_501209, EPI_ISL_501210, EPI_ISL_501211, EPI_ISL_501212, EPI_ISL_501213, EPI_ISL_501214, EPI_ISL_501215, EPI_ISL_501216, EPI_ISL_501217, EPI_ISL_501218, EPI_ISL_501219, EPI_ISL_501220, EPI_ISL_501221, EPI_ISL_501222, EPI_ISL_501223, EPI_ISL_501224, EPI_ISL_501225, EPI_ISL_501226, EPI_ISL_501227, EPI_ISL_501228	see above	Baylor College of Medicine	Vasanthi Avadhanula, Erin Nicholson, David Henke, Pedro Piedra, Harsha Doddapaneni, Donna Muzyzn, Qingchang Meng, Hsu Chao, Zeineen Munoz, Hua Shen, George Weissenberger, Kavya Kottappally, Yimiti Melheerguli, Sejal Salvi, Ginger Metcalf, Pipin Menon, Sara J. Cregeen, Matthew C. Ross, Tulay Ayvaz, Richard Sungcang, Kristi L. Hoffman, Matthew Wong, Joseph F. Petrosino
EPI_ISL_501233, EPI_ISL_501236, EPI_ISL_501248, EPI_ISL_501249, EPI_ISL_501250, EPI_ISL_501251	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Department of Medical Microbiology, Faculty of Medicine, University of Malaya	Yoong Min CHONG, Jennifer Chong, I-Ching SAM, Yoke Fun CHAN, University Malaya Medical Centre COVID Team
EPI_ISL_501233, EPI_ISL_501236, EPI_ISL_501248, EPI_ISL_501249, EPI_ISL_501250, EPI_ISL_501251	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Hellenic Pasteur Institute, National Influenza Reference laboratory of Southern Greece & Unit of Bioinformatics and Applied Genomics	Vasiliki Pogka, Timokratios Karamitros, Athanasios Kosyvakis, Antonios Kaliliaropoulos, Horefti Elina, Evangelidou Maria, Androniki Voulgari-Kokota, Aspasia Kontou, Andreas Mentis
EPI_ISL_505003	Biology Dpt	Microbiology and Infections Diseases	Emmanuelle Billon-Denis, Audrey Ferrier-Rembert, Annabelle Garnier, Laurence Cheutin, Clarisse Vigne, Emilie Tessier, Jessica Denis, Olivier Gorgé, Flora Nolent, Isabelle Drouet, Noémie Verguet, Olivier Ferraris, Jean-Nicolas Tourner
EPI_ISL_506996	Department of Medical Microbiology, University Malaya Medical Centre	Department of Medical Microbiology, Faculty of Medicine, University of Malaya	Yoong Min CHONG, Jennifer Chong, I-Ching SAM, Yoke Fun CHAN, University Malaya Medical Centre COVID Team
EPI_ISL_507002, EPI_ISL_507003, EPI_ISL_507004, EPI_ISL_507005, EPI_ISL_507006	Department of Laboratory Medicine, Tan Tock Seng Hospital	Department of Laboratory Medicine, Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_507008	National Veterinary Institute	National Veterinary Institute	Siamak Zohari
EPI_ISL_507206, EPI_ISL_507207, EPI_ISL_507208, EPI_ISL_507209, EPI_ISL_507210, EPI_ISL_507211, EPI_ISL_507212, EPI_ISL_507213, EPI_ISL_507214, EPI_ISL_507215	Department of Experimental Modeling and Pathogenesis of Infectious Diseases	Andrey Komissarov, Artem Fadeev, Mariia Sergeeva, Anna Ivanova, Daria Danilenko	



see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Afrah Alsomali, Fathia Ben Rached, Raeeca Naeem, Sharif Hala,Rahul P Salunke, Amanda Ooi, Luke Esau, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Asim Khogeer, Kahled Alghithami, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513027, EPI_ISL_513028, EPI_ISL_513029, EPI_ISL_513032, EPI_ISL_513033, EPI_ISL_513035, EPI_ISL_513036, EPI_ISL_513037, EPI_ISL_513038, EPI_ISL_513039, EPI_ISL_513040, EPI_ISL_513041, EPI_ISL_513042, EPI_ISL_513043, EPI_ISL_513045, EPI_ISL_513046, EPI_ISL_513047, EPI_ISL_513048, EPI_ISL_513049, EPI_ISL_513050, EPI_ISL_513051, EPI_ISL_513052, EPI_ISL_513053, EPI_ISL_513055, EPI_ISL_513056, EPI_ISL_513058, EPI_ISL_513059, EPI_ISL_513060, EPI_ISL_513061, EPI_ISL_513062, EPI_ISL_513063	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Rahul P Salunke, Sharif Hala, Raeeca Naeem, Sara Mfarrej, Amit Kumar Subudhi, Amanda Ooi, Luke Esau, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513064, EPI_ISL_513065, EPI_ISL_513066, EPI_ISL_513067, EPI_ISL_513069, EPI_ISL_513070, EPI_ISL_513071, EPI_ISL_513072, EPI_ISL_513073, EPI_ISL_513074, EPI_ISL_513075, EPI_ISL_513076	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Raeeca Naeem, Rahul P Salunke, Sharif Hala, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513078, EPI_ISL_513079, EPI_ISL_513081, EPI_ISL_513082, EPI_ISL_513083, EPI_ISL_513086, EPI_ISL_513087, EPI_ISL_513090, EPI_ISL_513092, EPI_ISL_513093, EPI_ISL_513094, EPI_ISL_513095, EPI_ISL_513096, EPI_ISL_513097, EPI_ISL_513098, EPI_ISL_513099, EPI_ISL_513099, EPI_ISL_513100, EPI_ISL_513101, EPI_ISL_513102, EPI_ISL_513103, EPI_ISL_513104, EPI_ISL_513105, EPI_ISL_513106, EPI_ISL_513107, EPI_ISL_513108, EPI_ISL_513109, EPI_ISL_513111, EPI_ISL_513112, EPI_ISL_513113, EPI_ISL_513114, EPI_ISL_513115, EPI_ISL_513116, EPI_ISL_513117, EPI_ISL_513118, EPI_ISL_513119, EPI_ISL_513120	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Fathia Ben Rached, Raeeca Naeem, Sharif Hala, Fadwa Alofi, Rahul P Salunke, Sara Mfarrej, Amit Kumar Subudhi, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513122, EPI_ISL_513123, EPI_ISL_513124, EPI_ISL_513125, EPI_ISL_513126, EPI_ISL_513127, EPI_ISL_513128, EPI_ISL_513129, EPI_ISL_513131, EPI_ISL_513132, EPI_ISL_513133, EPI_ISL_513134, EPI_ISL_513135, EPI_ISL_513137, EPI_ISL_513138, EPI_ISL_513139, EPI_ISL_513140, EPI_ISL_513141, EPI_ISL_513142, EPI_ISL_513143, EPI_ISL_513144, EPI_ISL_513145, EPI_ISL_513146	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Sharif Hala, Fadwa Alofi, Sara Mfarrej, Amit Kumar Subudhi, Rahul P Salunke, Fathia Ben Rached, Amande Ooi, Luke Esau, Afrah Alsomali, Asim Khogeer, Jumana Taha, Abdulaziz Alahmadi, Kahled Alghithami, Raeeca Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513147, EPI_ISL_513148, EPI_ISL_513149, EPI_ISL_513150, EPI_ISL_513151, EPI_ISL_513152, EPI_ISL_513153, EPI_ISL_513154, EPI_ISL_513156, EPI_ISL_513157, EPI_ISL_513158, EPI_ISL_513159, EPI_ISL_513160, EPI_ISL_513161, EPI_ISL_513162, EPI_ISL_513163, EPI_ISL_513164, EPI_ISL_513166, EPI_ISL_513167	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Fadwa Alofi, Sharif Hala, Rahul P Salunke, Sara Mfarrej, Amit Kumar Subudhi, Fathia Ben Rached, Amande Ooi, Luke Esau, Afrah Alsomali, Asim Khogeer, Jumana Taha, Abdulaziz Alahmadi, Kahled Alghithami, Raeeca Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513168, EPI_ISL_513169, EPI_ISL_513170, EPI_ISL_513171, EPI_ISL_513172, EPI_ISL_513173, EPI_ISL_513174	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Sara Mfarrej, Raeeca Naeem, Rahul P Salunke, Sharif Hala, Fadwa Alofi, Amit Kumar Subudhi, Fathia Ben Rached, Amande Ooi, Luke Esau, Afrah Alsomali, Asim Khogeer, Jumana Taha, Abdulaziz Alahmadi, Asim Khogeer, Nashwa Al-khotani, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513175, EPI_ISL_513176, EPI_ISL_513177, EPI_ISL_513178, EPI_ISL_513179, EPI_ISL_513180, EPI_ISL_513181, EPI_ISL_513182, EPI_ISL_513183, EPI_ISL_513184, EPI_ISL_513185, EPI_ISL_513186, EPI_ISL_513187, EPI_ISL_513188, EPI_ISL_513189	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Amit Kumar Subudhi, Rahul P Salunke, Sara Mfarrej, Sharif Hala, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Nashwa Al-khotani, Raeeca Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513190, EPI_ISL_513191, EPI_ISL_513192, EPI_ISL_513193, EPI_ISL_513194, EPI_ISL_513195, EPI_ISL_513196, EPI_ISL_513197	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Afrah Alsomali, Fathia Ben Rached, Raeeca Naeem, Sharif Hala, Rahul P Salunke, Amanda Ooi, Luke Esau, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Asim Khogeer, Kahled Alghithami, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513198, EPI_ISL_513199, EPI_ISL_513200, EPI_ISL_513201, EPI_ISL_513202, EPI_ISL_513203, EPI_ISL_513204, EPI_ISL_513205, EPI_ISL_513206, EPI_ISL_513207	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Rahul P Salunke, Sharif Hala, Raeeca Naeem, Sara Mfarrej, Amit Kumar Subudhi, Amanda Ooi, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513208, EPI_ISL_513209, EPI_ISL_513210, EPI_ISL_513211, EPI_ISL_513212	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Raeeca Naeem, Rahul P Salunke, Sharif Hala, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513214, EPI_ISL_513215, EPI_ISL_513216, EPI_ISL_513217, EPI_ISL_513218, EPI_ISL_513219, EPI_ISL_513221, EPI_ISL_513222, EPI_ISL_513224, EPI_ISL_513226	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Sharif Hala, Fadwa Alofi, Sara Mfarrej, Amit Kumar Subudhi, Rahul P Salunke, Fathia Ben Rached, Amande Ooi, Luke Esau, Afrah Alsomali, Asim Khogeer, Jumana Taha, Abdulaziz Alahmadi, Kahled Alghithami, Raeeca Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513228, EPI_ISL_513229, EPI_ISL_513230, EPI_ISL_513231, EPI_ISL_513233, EPI_ISL_513234, EPI_ISL_513235, EPI_ISL_513236, EPI_ISL_513238, EPI_ISL_513240, EPI_ISL_513241, EPI_ISL_513242, EPI_ISL_513243, EPI_ISL_513244, EPI_ISL_513245, EPI_ISL_513246, EPI_ISL_513247, EPI_ISL_513248	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Amit Kumar Subudhi, Rahul P Salunke, Sara Mfarrej, Sharif Hala, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Nashwa Al-khotani, Raeeca Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513249, EPI_ISL_513250, EPI_ISL_513251, EPI_ISL_513252, EPI_ISL_513253, EPI_ISL_513254, EPI_ISL_513257, EPI_ISL_513258, EPI_ISL_513259, EPI_ISL_513260, EPI_ISL_513261, EPI_ISL_513262, EPI_ISL_513263, EPI_ISL_513264	see above	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Afrah Alsomali, Fathia Ben Rached, Raeeca Naeem, Sharif Hala, Rahul P Salunke, Amanda Ooi, Luke Esau, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Asim Khogeer, Kahled Alghithami, Anwar Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513314, EPI_ISL_513511, EPI_ISL_513512	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy.Ajirincova,H-Novakova,L-Trnka,D-Vecerova,j
EPI_ISL_513513, EPI_ISL_513514, EPI_ISL_513515, EPI_ISL_513516, EPI_ISL_513517, EPI_ISL_513518, EPI_ISL_513519, EPI_ISL_513520, EPI_ISL_513521, EPI_ISL_513522, EPI_ISL_513523, EPI_ISL_513524, EPI_ISL_513525, EPI_ISL_513526, EPI_ISL_513527, EPI_ISL_513528, EPI_ISL_513529, EPI_ISL_513530, EPI_ISL_513531, EPI_ISL_513532, EPI_ISL_513533, EPI_ISL_513534, EPI_ISL_513535, EPI_ISL_513536, EPI_ISL_513537, EPI_ISL_513538, EPI_ISL_513539, EPI_ISL_513540, EPI_ISL_513541, EPI_ISL_513542, EPI_ISL_513543, EPI_ISL_513544, EPI_ISL_513545, EPI_ISL_513546, EPI_ISL_513547, EPI_ISL_513548, EPI_ISL_513549, EPI_ISL_513550, EPI_ISL_513551, EPI_ISL_513552, EPI_ISL_513553, EPI_ISL_513554, EPI_ISL_513555, EPI_ISL_513556, EPI_ISL_513557, EPI_ISL_513558, EPI_ISL_513559, EPI_ISL_513560, EPI_ISL_513561, EPI_ISL_513562, EPI_ISL_513563, EPI_ISL_513564, EPI_ISL_513565, EPI_ISL_513566, EPI_ISL_513567, EPI_ISL_513568, EPI_ISL_513569	see above	Programa de Oncovirología, Instituto Nacional de Cáncer	Juliana D. Siqueira, Lívia R. Goes, Bruna M. Alves, Cláudia Cicala, James Arthos, João P.B. Vilela, Andreia C. de Melo, Marcelo A. Soares
EPI_ISL_514131	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514132	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514133, EPI_ISL_514134	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514135	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514136	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514137	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514138	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Aline Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicília Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilalobos-Salcedo and Deusilene Souza Vieira
EPI_ISL_514435	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Harsh Chaudhari, Zarna Patel, Monika Gandhi, Pinal Trivedi, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Sayied, Komal Patel, Labdh Pandya, Afnan Ansari, Nikha Trivedi, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514436	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharsi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Sayied, Komal Patel, Labdh Pandya, Afnal Ansari, Nikha Trivedi, Harsh Bakshi, Apurvasinh Puvar, Janvi Raval, A D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514437	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Sayied, Komal Patel, Labdh Pandya, Afnal Ansari, Nikha Trivedi, Harsh Bakshi, Apurvasinh Puvar, Janvi Raval, A D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514440	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aara Rahman, Prof. Firoz Ahmed, Tahirma Huq, Abdus Sadique, Tamanna Afroze, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof. Hasan Mahmud Reza
EPI_ISL_514580	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aara Rahman, Prof. Firoz Ahmed, Tahirma Huq, Abdus Sadique, Jahanbul Alam, Tamanna Afroze, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof. Hasan Mahmud Reza
EPI_ISL_514581	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zubir Sayied, Komal Patel, Labdh Pandya, Afnal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia,



EPI_ISL_515548	Hospital Municipal Dr. Jose Soares Hungria	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515550	UPA Vila Santa Catarina	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515551, EPI_ISL_515552	Hospital Municipal do Tatuape Carmo Caricchio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515553	Hospital Municipal Dr. Ignacio Proenca de Gouveia	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515554	Pronto Socorro Municipal de Perus	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515555	Hospital Geral de Vila Nova Cachoeirinha	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515557	Hospital Municipal Dr. Moysés Deutsch	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515559, EPI_ISL_515560	Hospital Sao Paulo de Ensino da Unifesp	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515561	Hospital Montemagno	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515562	Hospital Municipal Doutor Alexandre Zaio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515563	Hospital Municipal Dr. Jose Soares Hungria	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515564	Hosp. Municipal Prof. Dr. Alípio Corrêa Netto	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515565	Hospital do Servidor Público Estadual Francisco Morato de Oliveira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515566	PS Municipal Dr Lauro Ribas Braga	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_515568, EPI_ISL_515569, EPI_ISL_515570, EPI_ISL_515573, EPI_ISL_515574, EPI_ISL_515575, EPI_ISL_515579, EPI_ISL_515580, EPI_ISL_515582, EPI_ISL_515584, EPI_ISL_515585, EPI_ISL_515589, EPI_ISL_515594, EPI_ISL_515596, EPI_ISL_515597, EPI_ISL_515601, EPI_ISL_515612, EPI_ISL_515613, EPI_ISL_515616, EPI_ISL_515622, EPI_ISL_515623, EPI_ISL_515627, EPI_ISL_515631, EPI_ISL_515633, EPI_ISL_515634, EPI_ISL_515635, EPI_ISL_515639, EPI_ISL_515640, EPI_ISL_515642, EPI_ISL_515643, EPI_ISL_515644, EPI_ISL_515645, EPI_ISL_515647, EPI_ISL_515649, EPI_ISL_515650, EPI_ISL_515651, EPI_ISL_515652, EPI_ISL_515653, EPI_ISL_515654, EPI_ISL_515655, EPI_ISL_515656, EPI_ISL_515657, EPI_ISL_515658, EPI_ISL_515659, EPI_ISL_515660, EPI_ISL_515661, EPI_ISL_515662, EPI_ISL_515663, EPI_ISL_515664, EPI_ISL_515666, EPI_ISL_515667, EPI_ISL_515669, EPI_ISL_515671, EPI_ISL_515672, EPI_ISL_515674, EPI_ISL_515675, EPI_ISL_515676, EPI_ISL_515677, EPI_ISL_515678, EPI_ISL_515679, EPI_ISL_515680, EPI_ISL_515681, EPI_ISL_515682, EPI_ISL_515683, EPI_ISL_515684, EPI_ISL_515685, EPI_ISL_515686, EPI_ISL_515687, EPI_ISL_515688, EPI_ISL_515689, EPI_ISL_515690, EPI_ISL_515691, EPI_ISL_515692, EPI_ISL_515693, EPI_ISL_515694, EPI_ISL_515695, EPI_ISL_515696, EPI_ISL_515697, EPI_ISL_515698, EPI_ISL_515699, EPI_ISL_515700, EPI_ISL_515701, EPI_ISL_515702, EPI_ISL_515703, EPI_ISL_515704, EPI_ISL_515705, EPI_ISL_515706, EPI_ISL_515707, EPI_ISL_515708, EPI_ISL_515709, EPI_ISL_515710, EPI_ISL_515711, EPI_ISL_515712, EPI_ISL_515714, EPI_ISL_515715, EPI_ISL_515716, EPI_ISL_515718, EPI_ISL_515719, EPI_ISL_515720, EPI_ISL_515721, EPI_ISL_515724, EPI_ISL_515725, EPI_ISL_515726, EPI_ISL_515729, EPI_ISL_515730, EPI_ISL_515731, EPI_ISL_515732, EPI_ISL_515733, EPI_ISL_515734, EPI_ISL_515736, EPI_ISL_515737, EPI_ISL_515739, EPI_ISL_515740, EPI_ISL_515741, EPI_ISL_515743, EPI_ISL_515745, EPI_ISL_515747, EPI_ISL_515749, EPI_ISL_515751, EPI_ISL_515752, EPI_ISL_515753, EPI_ISL_515754, EPI_ISL_515756, EPI_ISL_515757, EPI_ISL_515758, EPI_ISL_515759, EPI_ISL_515760, EPI_ISL_515761, EPI_ISL_515762, EPI_ISL_515763, EPI_ISL_515764, EPI_ISL_515765, EPI_ISL_515766, EPI_ISL_515767, EPI_ISL_515773, EPI_ISL_515775, EPI_ISL_515776, EPI_ISL_515777, EPI_ISL_515778, EPI_ISL_515780, EPI_ISL_515781, EPI_ISL_515783, EPI_ISL_515784, EPI_ISL_515787, EPI_ISL_515789, EPI_ISL_515790, EPI_ISL_515791, EPI_ISL_515792, EPI_ISL_515793, EPI_ISL_515794, EPI_ISL_515796, EPI_ISL_515797, EPI_ISL_515799	see above NHLs-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S. Lessells R. Mdalose K. York D. Khan S. Tegally H. Wilkinson E. de Oliveira T
EPI_ISL_515801, EPI_ISL_515802, EPI_ISL_515803, EPI_ISL_515804, EPI_ISL_515805, EPI_ISL_515806, EPI_ISL_515807, EPI_ISL_515808, EPI_ISL_515809, EPI_ISL_515810, EPI_ISL_515811, EPI_ISL_515812, EPI_ISL_515813, EPI_ISL_515814, EPI_ISL_515815, EPI_ISL_515816, EPI_ISL_515817, EPI_ISL_515818, EPI_ISL_515819, EPI_ISL_515820, EPI_ISL_515821, EPI_ISL_515822, EPI_ISL_515823, EPI_ISL_515824, EPI_ISL_515825, EPI_ISL_515826, EPI_ISL_515827, EPI_ISL_515828, EPI_ISL_515829, EPI_ISL_515830, EPI_ISL_515831, EPI_ISL_515832, EPI_ISL_515833, EPI_ISL_515834, EPI_ISL_515835, EPI_ISL_515836, EPI_ISL_515837, EPI_ISL_515838, EPI_ISL_515839, EPI_ISL_515840, EPI_ISL_515841, EPI_ISL_515842, EPI_ISL_515843, EPI_ISL_515844, EPI_ISL_515845, EPI_ISL_515846, EPI_ISL_515847, EPI_ISL_515848, EPI_ISL_515849, EPI_ISL_515850, EPI_ISL_515851, EPI_ISL_515852, EPI_ISL_515853, EPI_ISL_515854, EPI_ISL_515855, EPI_ISL_515856, EPI_ISL_515857, EPI_ISL_515858, EPI_ISL_515859, EPI_ISL_515860, EPI_ISL_515861, EPI_ISL_515862, EPI_ISL_515863, EPI_ISL_515864, EPI_ISL_515865, EPI_ISL_515866, EPI_ISL_515867, EPI_ISL_515868, EPI_ISL_515869, EPI_ISL_515870, EPI_ISL_515871, EPI_ISL_515872, EPI_ISL_515873, EPI_ISL_515874, EPI_ISL_515875, EPI_ISL_515876, EPI_ISL_515877, EPI_ISL_515878, EPI_ISL_515879, EPI_ISL_515880, EPI_ISL_515881, EPI_ISL_515882, EPI_ISL_515883, EPI_ISL_515884, EPI_ISL_515885, EPI_ISL_515886, EPI_ISL_515887, EPI_ISL_515888, EPI_ISL_515889, EPI_ISL_515890, EPI_ISL_515891, EPI_ISL_515892, EPI_ISL_515893	see above Medical Diagnostics Services (MDS)	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S. Lessells R. ChimukangaraB, Mdalose K. York D. Khan S. Tegally H. Wilkinson E. de Oliveira T
EPI_ISL_515938, EPI_ISL_515941, EPI_ISL_515942	CV RAMAN HOSPITAL	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_515945, EPI_ISL_515947	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_515952	VICTORIA HOSPITAL	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_515954, EPI_ISL_515957, EPI_ISL_515958, EPI_ISL_515959, EPI_ISL_515961	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_515963, EPI_ISL_515964, EPI_ISL_515966, EPI_ISL_515967	VICTORIA HOSPITAL	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_515968, EPI_ISL_515969, EPI_ISL_515970, EPI_ISL_515971, EPI_ISL_515973	MIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman,Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Pramada Prasad, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_516609	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Fabiola Garces-Ayala, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_516611	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Fabiola Garces-Ayala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_516613	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_516618	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Fabiola Garces-Ayala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_516620	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_516622, EPI_ISL_516624, EPI_ISL_516625, EPI_ISL_516626, EPI_ISL_516627	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnóstico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambla , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Fabiola Garces-Ayala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_516748, EPI_ISL_516749, EPI_ISL_516750, EPI_ISL_516752, EPI_ISL_516753, EPI_ISL_516755, EPI_ISL_516756, EPI_ISL_516757, EPI_ISL_516758, EPI_ISL_516762, EPI_ISL_516763, EPI_ISL_516764, EPI_ISL_516765, EPI_ISL_516766, EPI_ISL_516767, EPI_ISL_516768, EPI_ISL_516769, EPI_ISL_516770, EPI_ISL_516771, EPI_ISL_516772, EPI_ISL_516773, EPI_ISL_516774, EPI_ISL_516775, EPI_ISL_516776, EPI_ISL_516777	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Andrew G. Letizia, Irene Ramos, Ajay Obla, Carl Goforth, Dawn Weir, Yongchao Ge, Marcus M. Bamman, Jayeeta Dutta, Ethan Ellis, Luis Estrella, Mary-Catherine George, Ana S. Gonzalez-Reiche, Darnell Graham, Adriana van de Guchte, Ramiro Gutierrez, Franca Jones, Aspalisa Kalomoiri, Rhonda Lizewski, Stephen Lizewski, Jan Maragay, Nada Marianovic, Eugene V. Millar, Venugopalan Nair, German Nudelman, Edgar Nuniz, Brian Pike, James Regeimbal, Stas Rirkar, Ernesto Santa A, Rachel S. Gelertner Sealfon, Robert Sebra, Mark Simons, Alessandra Soares-Schanoski, Michael Termini, Sindhu Vangeti, Carlos Williams, Harm van Bakel, Stuart C. Sealfon	
EPI_ISL_516800	Rumah Sakit Akademik Universitas Gadjah Mada	Genetics Working Group (Pjok Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayanah Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, . Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyatni, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahansih, Afiahayati, Siswanto, Alvin S. Kalim, Desyifa Mursalin
EPI_ISL_516801	Department of Laboratory Medicine, Tan Tock Seng Hospital	Department of Laboratory Medicine, Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_516802, EPI_ISL_516803	Department of Laboratory Medicine, Tan Tock Seng Hospital	Department of Laboratory Medicine, Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_516804	Department of Laboratory Medicine, Tan Tock Seng Hospital	Department of Laboratory Medicine, Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_516805	Department of Laboratory Medicine, Tan Tock Seng Hospital	Department of Laboratory Medicine, Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
EPI_ISL_516806	Rumah Sakit PKU Gamping	Genetics Working Group (Pjok Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayanah Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, . Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyatni, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahansih, Afiahayati, . Siswanto, Ardirisyte Saptyatama, Kemala Athollah
EPI_ISL_516829	RSUD Nyi Ageng Serang	Genetics Working Group (Pjok Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM), Disease Investigation Center Wates Ministry of Agriculture Indonesia, Department of Microbiology FK-KMK UGM, Laboratorium Diagnostik Yayanah Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM, Integrated Research Center FK-KMK UGM, Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, . Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyatni, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahansih, Afiahayati, . Siswanto, Beby Dewi Sartika, Dyah Ayu Puspitarani
EPI_ISL_516934, EPI_ISL_516938	Nicolae Testemitanu State University of Medicine and Pharmacy	International Centre for Genetic Engineering and Biotechnology (ICGEB) and ARGO Open Lab Platform for Genome Sequencing	Ulinici M, Licastro D, Dal Monego S, Rajasekharan S, Marcello A
EPI_ISL_516940, EPI_ISL_516942, EPI_ISL_516943, EPI_ISL_516946, EPI_ISL_516948, EPI_ISL_516969, EPI_ISL_516974, EPI_ISL_516976, EPI_ISL_516977, EPI_ISL_516980, EPI_ISL_516981, EPI_ISL_516982, EPI_ISL_516983, EPI_ISL_516984, EPI_ISL_516986	King Georges Medical University	CSIR-National Botanical Research Institute	Priti Prasad, Shantanu Prakash, Kishan Sahu, Babita Singh, Suruchi Shukla, Hricha Mishra, Danish Nasar Khan , Om Prakash, MLB Bhatt, SK Barik, Mehar H.Asif,Samir V. Sawant,Amita Jain, Sumit Kr. Bag
EPI_ISL_517996, EPI_ISL_517997, EPI_ISL_517998, EPI_ISL_517999, EPI_ISL_518001, EPI_ISL_518002, EPI_ISL_518003, EPI_ISL_518004, EPI_ISL_518005, EPI_ISL_518006, EPI_ISL_518007, EPI_ISL_518008, EPI_ISL_518009, EPI_ISL_518010, EPI_ISL_518011, EPI_ISL_518012, EPI_ISL_518013, EPI_ISL_518014, EPI_ISL_518015, EPI_ISL_518016	Singapore General Hospital	Department of Microbiology	Nurdyana Abdul Rahman, Kun Lee Lim, Chenhao Li, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Nirajan Nagarajan, Karrie Ko
EPI_ISL_518034, EPI_ISL_518035, EPI_ISL_518037, EPI_ISL_518038, EPI_ISL_518039, EPI_ISL_518040, EPI_ISL_518041, EPI_ISL_518042, EPI_ISL_518043, EPI_ISL_518044, EPI_ISL_518045, EPI_ISL_518046, EPI_ISL_518047, EPI_ISL_518048, EPI_ISL_518049, EPI_ISL_518050, EPI_ISL_518051, EPI_ISL_518052	NHLs-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J. Pillay S. Lessells R. Mdalose K. York D. Khan S. Tegally H. Wilkinson E. de Oliveira T
EPI_ISL_518819	Qadr Hospital, Tangerang, Banten	Biosafety Level-3 Laboratory, Indonesian Institute of Sciences (LIPI)	Anik Budhi Dharmayanti, Syam Budi Iryanto, Andri Wardiana, Anggia Prasetyoputri, Isa Nuryana, Ade Andriani, Ario Beta Juansilfero, Asep M Ridwanuloh, Ahmad Fathoni, Rifki Sadikin, Ratih Asmara Ningrum, Wien Kusharyoto, Puspita Lisdianti





EPI_ISL_525419	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_525420	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saidy, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Juan José Guadalupe, Monica Becerra-Wong, Belén Prado-Vivar, Sully Márquez, Bernardo Gutiérrez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_525421	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525422	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525430	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525467	Universidad Iberoamericana	International Centre for Genetic Engineering and Biotechnology (ICGEB) and ARGO Open Lab Platform	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525468	Universidad Iberoamericana	International Centre for Genetic Engineering and Biotechnology (ICGEB) and ARGO Open Lab Platform	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525469	Universidad Iberoamericana	International Centre for Genetic Engineering and Biotechnology (ICGEB) and ARGO Open Lab Platform	Robert Paulino-Ramirez, Eileen Riego, Alejandro Vallejo Degaudenzi, Victor Virgilio Calderon, Leandro Tapia, Patricia Leon, Danilo Licastro, Simeone Dal Monego, Sreejith Rajasekaran and Alessandro Marcello.
EPI_ISL_525474	Centre for Dengue Research	Centre for Dengue Research, USJ, SL	Chandima Jeewandara, Deshni Jayathilaka, Dinuka Ariyaratne, Laksiri Gomes, Diyanath Ranasinghe, Dinuka Guruge, Ruwan Wijayamuni, Gathsaurie Neelika Malavige
EPI_ISL_525476	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Deshni Jayathilaka, Dinuka Ariyaratne, Laksiri Gomes, Diyanath Ranasinghe, Dinuka Guruge, Ruwan Wijayamuni, Gathsaurie Neelika Malavige
EPI_ISL_525478, EPI_ISL_525479, EPI_ISL_525481	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Deshni Jayathilaka, Dinuka Ariyaratne, Laksiri Gomes, Diyanath Ranasinghe, Ananda Wijewickrama, Eranga Narangoda, Damayanthi Idampitiya, Gathsaurie Neelika Malavige
EPI_ISL_525486, EPI_ISL_525489	Centre for Dengue Research	Centre for Dengue Research	Chandima Jeewandara, Deshni Jayathilaka, Dinuka Ariyaratne, Laksiri Gomes, Diyanath Ranasinghe, Ananda Wijewickrama, Malika Karunaratne, Eranga Narangoda, Damayanthi Idampitiya, Gathsaurie Neelika Malavige
EPI_ISL_525492	RSUP dr. SOERADJI TIRTONEGORO	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM), Disease Investigation Center Waters Ministry of Agriculture Indonesia, Department of Microbiology FK-KMK UGM, Laboratorium Diagnostik Yayanah Tahiya World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM, Integrated Research Center FK-KMK UGM, Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, . Marcellus, Mohamad S. Hakim, Edwin W. Daniyura, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati , Siswanto, Kurniyanto, Indah Juliania, Alvin S. Kalim, Dwiki Afandy
EPI_ISL_525495, EPI_ISL_525496	Laboratory of Molecular Virology of the International Centre for Genetic Engineering and Biotechnology (ICGEB)	ARGO Open Lab Platform for Genome Sequencing	Licastro D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Marcello A
EPI_ISL_525553, EPI_ISL_525557, EPI_ISL_525570	Istituto Zooprofilattico Sperimentale Puglia e Basilicata; Dipartimento di Bioscienze, Biotecnologie e Biofarmaceutica dell'Università degli Studi di Bari "A.Moro"; Istituto di Membrane, Bioenergetica e Biotecnologia Molecolare del Consiglio Nazionale delle Ricerche di Bari	Beaconlab (Bioinformatics, Evolution and Comparative Genomics lab), Dept of Biosciences, University on Milan	Parisi A.,Pesole G., Manzari C., Chiara M
EPI_ISL_525578, EPI_ISL_525621, EPI_ISL_525627, EPI_ISL_525631, EPI_ISL_525638, EPI_ISL_525639, EPI_ISL_525640, EPI_ISL_525641, EPI_ISL_525642, EPI_ISL_525646, EPI_ISL_525647, EPI_ISL_525648, EPI_ISL_525649, EPI_ISL_525650, EPI_ISL_525654, EPI_ISL_525658, EPI_ISL_525659, EPI_ISL_525676, EPI_ISL_525677, EPI_ISL_525678, EPI_ISL_525679, EPI_ISL_525680, EPI_ISL_525681, EPI_ISL_525682, EPI_ISL_525683, EPI_ISL_525684, EPI_ISL_525685, EPI_ISL_525686	see above	Wadsworth Center, New York State Department of Health	Kirsten St. George, Daryl M. Lamson, Sara Griesemer, Jonathan Plitnick, Navjot Singh, Matthew D. Shudt, Erica Lasek-Nesselquist
EPI_ISL_526215, EPI_ISL_526216, EPI_ISL_526217, EPI_ISL_526218, EPI_ISL_526219, EPI_ISL_526220, EPI_ISL_526221, EPI_ISL_526222, EPI_ISL_526223, EPI_ISL_526224, EPI_ISL_526225, EPI_ISL_526226, EPI_ISL_526227, EPI_ISL_526228, EPI_ISL_526229, EPI_ISL_526230, EPI_ISL_526231, EPI_ISL_526232, EPI_ISL_526234, EPI_ISL_526235, EPI_ISL_526236, EPI_ISL_526237, EPI_ISL_526238	see above	Wadsworth Center, New York State Department of Health	Endre Gábor Tóth, Baláz Somogyi, Bálint Eszteryi, Ferenc Jakab, Gábor Kemerei
EPI_ISL_526686, EPI_ISL_526687, EPI_ISL_526688	Hungarian Defence Forces Military Medical Centre	National Laboratory of Virology, Szentágóthai Research Centre	Graham J. Britton, Alice Chen-Liaw, Francesca Cossarini, Alexandra Livans, Matthew P. Spindler, Tamar Plitt, Joseph Eggers, Ilaria Mogno, Ana S. Gonzalez-Reiche, Sophia Sui, Michael Tankelevich, Lauren Tal Grinspan, Rebekah E. Dixon, Divya Jha, Gustavo Martinez-Delgado, Fatima Amanat, Daisy Hoagland, Benjamin R. tenOever, Maria C. Dubinsky, Miriam Merad, Harm Van Bakel, Florian Krammer, Gerold Bongers, Saarah Mehandru and Jeremiah J. Faith
EPI_ISL_526933, EPI_ISL_526934	Faith Laboratory, Immunology Institute, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Mauricio Pacheco-Montealegre, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Ospina Martínez, Marcela Mercado-Reyes
EPI_ISL_526937, EPI_ISL_526938, EPI_ISL_526939, EPI_ISL_526940, EPI_ISL_526941, EPI_ISL_526943, EPI_ISL_526946	Faroese National Reference Laboratory for Fish and Animal Diseases	Faroese National Reference Laboratory for Fish and Animal Diseases	Maria Marjunardóttir Dahl, Petra Elisabeth Petersen, Debes Hammershaimb Christiansen
EPI_ISL_526949, EPI_ISL_526950, EPI_ISL_526951, EPI_ISL_526955, EPI_ISL_526956, EPI_ISL_526957	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Mauricio Pacheco-Montealegre, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Ospina Martínez, Marcela Mercado-Reyes
EPI_ISL_526963, EPI_ISL_526964, EPI_ISL_526965	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Jonathan Reales, Diego Andrés Prada, Jeordan Malagón-Rojas, Felix Betzler, Wendy K. Jo, Edmilson F. de Oliveira-Filho, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Ospina Martínez, Marcela Mercado-Reyes
EPI_ISL_526967	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Mauricio Pacheco-Montealegre, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Ospina Martínez, Marcela Mercado-Reyes
EPI_ISL_526971	Instituto Nacional de Salud, Bogotá, Colombia	Instituto Nacional de Salud, Bogotá, Colombia	Katherine Laiton-Donato, Diego A. Álvarez-Díaz, Carlos Franco-Muñoz, Mauricio Pacheco-Montealegre, Jonathan Reales, Diego Andrés Prada, Jose A. Usme-Ciro, Zulma M. Cucunubá, Christian Julian Villabona-Arenas, Liz Villabona-Arenas, Sussy Echeverría, Astrid C. Flórez, Carolina Ferro, Diana Marcela Walteros-Aceró, Franklin Prieto, Carlos Andrés Durán, Martha Lucia Ospina Martínez, Marcela Mercado-Reyes
EPI_ISL_527742	Centro Nacional De Rehabilitacion Humberto Araya Rojas (Cenare)	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_527753	Hospital San Vicente De Paul	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Porras, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon
EPI_ISL_527818, EPI_ISL_527819	Centro de Investigaciones, Universidad De Especialidades Espíritu Santo	Institute of Microbiology, Universidad San Francisco de Quito	Derly Andrade, Juan Carlos Fernandez, Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Gabriel Morey, Ruben Armas, Jose Pedro Barberan, Fernando Espinoza, Edith Lopez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_527856	Hospital Municipal Prof. Waldomiro de Paula	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527857	Hospital Regional Vale do Ribeira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527858	Pronto Atendimento Santa Maggiore Jardim Paulista	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527859	Hospital Municipal Vereador Jose Storopoli	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527860	Hospital Municipal de Parelheiros Josanias Castanha Braga	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527861	Hospital e Maternidade Celso Pierro	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Av. Dr. Arnaldo, 355 - Brazil, Cerqueira Cesar, São Paulo - SP, 01246-1301
EPI_ISL_527862	Hospital Municipal de Urgência	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527863	Hospital Municipal do Tatuape Carmo Caricchio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527864	Hospital e Pronto Socorro Comunitário Vila Iolanda	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527865	Hospital e Maternidade São Cristóvão	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527866	PS Municipal Dr Lauro Riba Braga	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Av. Dr. Arnaldo, 355 - Brazil, Cerqueira Cesar, São Paulo - SP, 01246-1301
EPI_ISL_527867	Pronto Socorro Municipal - Balneário São José	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527868	Hospital e Maternidade do Braz	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527869	Hospital Municipal Carmen Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_527870	Hospital Municipal Mário Gatti	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_528382, EPI_ISL_528383, EPI_ISL_528384, EPI_ISL_528385	Translational Health Science and Technology Institute - ESIC medical college and hospital, Faridabad	THSTI Bioassay laboratory	Saurabh Kumar, Jigme Wangchuk, Anil Kumar Pandey, Asim Das, Guruprasad R. Medigeshi
EPI_ISL_528538	Alsafer	Alsafer	Andreas Henschel, Gihan Elsir Ahmed Daw Elbait, Samuel Feng, Rifat, Ernesto Damiani, Guan Tay, Habiba Alsafer
EPI_ISL_528539	LVM/UFRJ	LNCC	Gustavo M. Romário M. de Souza; Bruno B. Bezerra; Lucio A. Caldas; Fabio Limonte; Elena Cobos; Sharont V. A. Coelho; Luiz Almeida; Luiza Higgs; Isadora A. Correa; Diana Marianni; Luciana B. Arruda; Marcelo Bozza; Orlando Ferreira; Wanderley de Souza; Ana Teresa R. Vasconcelos; Terezinha M. Castineiras; Amílcar Tanuri; Luciana J. Costa.
EPI_ISL_528638	LVM/UFRJ	Bioinformatics Laboratory / LNCC	Gustavo D. P. Silva; M. Romário M. de Souza; Bruno B. Bezerra; Lucio A. Caldas; Fabio Limonte; Elena Cobos; Sharont V. A. Coelho; Luiz Almeida; Luiza Higgs; Isadora A. Correa; Diana Marianni; Luciana B. Arruda; Marcelo Bozza; Orlando Ferreira; Wanderley de Souza; Ana Teresa R. Vasconcelos; Terezinha M. Castineiras; Amílcar Tanuri; Luciana J. Costa
EPI_ISL_528687, EPI_ISL_528689, EPI_ISL_528691, EPI_ISL_528692, EPI_ISL_528693, EPI_ISL_528694, EPI_ISL_528695, EPI_ISL_528696, EPI_ISL_528698, EPI_ISL_528699, EPI_ISL_528700, EPI_ISL_528701, EPI_ISL_528702, EPI_ISL_528703, EPI_ISL_528704, EPI_ISL_528705, EPI_ISL_528706, EPI_ISL_528707, EPI_ISL_528708, EPI_ISL_528709, EPI_ISL_528710, EPI_ISL_528711, EPI_ISL_528712, EPI_ISL_528713, EPI_ISL_528714, EPI_ISL_528715, EPI_ISL_528716, EPI_ISL_528717, EPI_ISL_528718, EPI_ISL_528719, EPI_ISL_528720, EPI_ISL_528721			

see above	Alsafer - Khalifa University Abu Dhabi	Alsafer - Khalifa University Abu Dhabi	Andreas Henschel, Gihan Daw Elbait, Samuel Feng, Rifat Hamoudi, Ernesto Damiani, Guan Tay, Habiba Alsafar
EPI_ISL_528739, EPI_ISL_528739, EPI_ISL_528740, EPI_ISL_528740, EPI_ISL_528740	Malaysia Genome Institute	Malaysia Genome Institute	Mohd Noor Mat Isa, Irm Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Shahru Hisham Zainal Ariffin
EPI_ISL_528742	Malaysia Genome Institute	Malaysia Genome Institute	Mohd Noor Mat Isa, Irm Suhayu Sapian, Gan Han Ming, Yusuf Muhammad Noor, Tan Ju Lin, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Shahru Hisham Zainal Ariffin
EPI_ISL_528744, EPI_ISL_528744	Malaysia Genome Institute	Malaysia Genome Institute	Mohd Noor Mat Isa, Irm Suhayu Sapian, Yusuf Muhammad Noor, Nurhezreen Md Iqbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Shahru Hisham Zainal Ariffin
EPI_ISL_528745	Laboratorium Kesehatan Provinsi Jawa Barat	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Marselina Irsanonia Tan, Yunia Sribudiani, Catur Riani, Azzania Fibriani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528746	Immanuel Hospital	Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Laboratorium Kesehatan Provinsi Jawa Barat	Yunia Sribudiani, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Catur Riani, Azzania Fibriani, Husna Nugrahapraja, Marselina Irsanonia Tan, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528747	Santo Borromeus Hospital	School of Pharmacy & School of Life Sciences and Technology - Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Azzania Fibriani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Miftahul Farid, Karimatu Khairunnisa, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528748	Dinkes Provinsi Jawa Barat	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Azzania Fibriani, Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Gusti Ayu Prani Pradani, Adelina Khristiani Rahayu, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528749	Santosa Hospital Bandung Central	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Husna Nugrahapraja, Azzania Fibriani, Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Davin H. E. Setiamburg, Rizki Mardian, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528750	Santo Borromeus Hospital	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Marselina Irsanonia Tan, Yunia Sribudiani, Catur Riani, Azzania Fibriani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Miftahul Farid, Karimatu Khairunnisa, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528751	Santo Borromeus Hospital	Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Laboratorium Kesehatan Provinsi Jawa Barat	Yunia Sribudiani, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Catur Riani, Azzania Fibriani, Husna Nugrahapraja, Marselina Irsanonia Tan, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528752	Dr. H. A. Rotinsulu Lung Hospital	School of Pharmacy & School of Life Sciences and Technology - Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Azzania Fibriani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Gusti Ayu Prani Pradani, Adelina Khristiani Rahayu, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528753	Dinkes Kota Bogor	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Azzania Fibriani, Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Davin H. E. Setiamburg, Rizki Mardian, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528759	Santo Borromeus Hospital	School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; Laboratorium Kesehatan Provinsi Jawa Barat	Husna Nugrahapraja, Azzania Fibriani, Catur Riani, Marselina Irsanonia Tan, Yunia Sribudiani, Tarwadi, Ema Rahmawati, Savira Ekawardhani, Hesti Lina Wiraswati, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Lia Faridah, Tri Hanggono Achmad, Mas Rizky A.A. Syamsunarno, Fensi Amalina, Hammam Riza, SONY Solistia Wirawan, Agung Eru Wibowo, Irwan Faizal
EPI_ISL_528809	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Rajarao Mesipogu , Thirllok Chander Bingi ,Vinayasekhar Aedula,Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528810, EPI_ISL_528811, EPI_ISL_528812	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Thirllok Chander Bingi, Rajarao Mesipogu , Vinayasekhar Aedula,Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayana, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528813	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Vinayasekhar Aedula,Thirllok Chander Bingi, Rajarao Mesipogu ,Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528814	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Rajarao Mesipogu , Thirllok Chander Bingi ,Vinayasekhar Aedula,Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayana, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528815	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Vinayasekhar Aedula,Thirllok Chander Bingi, Rajarao Mesipogu ,Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528816	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Rajarao Mesipogu , Thirllok Chander Bingi ,Vinayasekhar Aedula,Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528817	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Thirllok Chander Bingi, Rajarao Mesipogu , Vinayasekhar Aedula,Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayana, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528818	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Vinayasekhar Aedula,Thirllok Chander Bingi, Rajarao Mesipogu ,Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528820	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Rajarao Mesipogu , Thirllok Chander Bingi ,Vinayasekhar Aedula,Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayana, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528821	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Thirllok Chander Bingi,Rajarao Mesipogu ,Vinayasekhar Aedula,Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528822	Department of Medicine, Gandhi hospital, Hyderabad	CSIR-Centre for Cellular and Molecular Biology	Vinayasekhar Aedula,Thirllok Chander Bingi, Rajarao Mesipogu ,Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kularki, Divhya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_528919	Ospedale Civile S. Liberatore-Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528920, EPI_ISL_528920, EPI_ISL_528921	Presidio Ospedaliero "Santo Spirito"-Pescara	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528922, EPI_ISL_528924	Ospedale "Giuseppe Mazini"-Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528925	Ospedale Regionale San Salvatore-L'Aquila	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528926, EPI_ISL_528926, EPI_ISL_528927, EPI_ISL_528928	Ospedale "Giuseppe Mazzini"-Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528929	Ospedale Civile S. Liberatore-Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528934, EPI_ISL_528935, EPI_ISL_528936, EPI_ISL_528937, EPI_ISL_528938, EPI_ISL_528940, EPI_ISL_528941, EPI_ISL_528944, EPI_ISL_528945, EPI_ISL_528946, EPI_ISL_528947, EPI_ISL_528948, EPI_ISL_528949	Agenzia di Tutela della Salute di Bergamo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528990	Ospedale Civile Maria SS. dello Splendore	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528991	Ospedale SS Annunziata-Sulmona	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_528993	Ospedale Civile S. Liberatore-Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.

EPI_ISL_528994, EPI_ISL_528995, EPI_ISL_528996, EPI_ISL_528997, EPI_ISL_528998, EPI_ISL_528999, EPI_ISL_529000, EPI_ISL_529001, EPI_ISL_529003, EPI_ISL_529004, EPI_ISL_529005	see above	Servizio di igiene epidemiologia e sanità pubblica (SIESP)- Chieti	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529006	Servizio di igiene e sanità pubblica (SIESP)-Teramo	Ospedale Civile S. Liberatore-Atri	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529007, EPI_ISL_529009	Servizio Igiene Epidemiologia e Sanità Pubblica (SIESP)- L'Aquila	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.	
EPI_ISL_529011, EPI_ISL_529012	Presidio Ospedaliero "S.Filippo e Nicola"-Avezzano	Ospedale "Ss. Annunziata"	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529013	Ospedale Civile "Giuseppe Mazzini"-Teramo	Ospedale SS Annunziata-Sulmona	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529014, EPI_ISL_529015	RSA/RP Villa San Giovanni - Gruppo Edos	Ospedale "Giuseppe Mazzini"-Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529016	Ospedale Civile S. Liberatore-Atri	Ospedale "Ss. Annunziata"	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529017	Ospedale "Giuseppe Mazzini"-Teramo	Ospedale "Giuseppe Mazzini"-Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529018	Ospedale Civile S. Liberatore-Atri	Ospedale "Ss. Annunziata"	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529019	Ospedale "Giuseppe Mazzini"-Teramo	Ospedale "Giuseppe Mazzini"-Teramo	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G.Caporale"	Lorusso A, Marcacci M, Di Domenico M, Curini V, Ancora M, Cammà C, Rinaldi A, Mangone I, Di Pasquale A, Puglia I, Savini G.
EPI_ISL_529020, EPI_ISL_529021	Central Molecular Microbiology Laboratory, Clinical and Chemical Pathology Department, Faculty of Medicine, CAIRO UNIVERSITY	Next Generation Sequencing Reference Laboratory, Faculty of Medicine, CAIRO UNIVERSITY and The Center for Genome and Microbiome Research, Faculty of Pharmacy, CAIRO UNIVERSITY	May Sherif Soliman, May Abdelfattah, Ramy Karam Aziz	
EPI_ISL_529022	Central Molecular Microbiology Laboratory and Next Generation Sequencing Reference Laboratory, Clinical and Chemical Pathology Department, Faculty of Medicine, CAIRO UNIVERSITY	Next Generation Sequencing Reference Laboratory, Faculty of Medicine, CAIRO UNIVERSITY and The Center for Genome and Microbiome Research, Faculty of Pharmacy, CAIRO UNIVERSITY	May Sherif Soliman, May Abdelfattah, Ramy Karam Aziz	
EPI_ISL_529023, EPI_ISL_529035	Wadsworth Center, New York State Department of Health	Wadsworth Center, New York State Department of Health	Kirsten St. George, Daryl M. Lamson, Sara Griesemer, Jonathan Plitnick, Navjot Singh, Matthew D. Shudt, Erica Lasek-Nesselquist	
EPI_ISL_529138	RSAL Dr. Ramelan Surabaya	Institute of Tropical Disease, Universitas Airlangga	Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Radito Soearto, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529721, EPI_ISL_529723, EPI_ISL_529724, EPI_ISL_529726, EPI_ISL_529728, EPI_ISL_529729, EPI_ISL_529730, EPI_ISL_529731, EPI_ISL_529732, EPI_ISL_529733, EPI_ISL_529734, EPI_ISL_529735, EPI_ISL_529736, EPI_ISL_529737, EPI_ISL_529738, EPI_ISL_529739, EPI_ISL_529740, EPI_ISL_529741, EPI_ISL_529743, EPI_ISL_529745, EPI_ISL_529747, EPI_ISL_529748, EPI_ISL_529749, EPI_ISL_529750, EPI_ISL_529751, EPI_ISL_529752, EPI_ISL_529753, EPI_ISL_529755, EPI_ISL_529756, EPI_ISL_529757, EPI_ISL_529758, EPI_ISL_529760, EPI_ISL_529761, EPI_ISL_529762, EPI_ISL_529763, EPI_ISL_529764, EPI_ISL_529765, EPI_ISL_529766, EPI_ISL_529767, EPI_ISL_529769, EPI_ISL_529771, EPI_ISL_529772, EPI_ISL_529773, EPI_ISL_529774, EPI_ISL_529775, EPI_ISL_529776, EPI_ISL_529777, EPI_ISL_529778, EPI_ISL_529779, EPI_ISL_529780, EPI_ISL_529782, EPI_ISL_529783, EPI_ISL_529784, EPI_ISL_529785, EPI_ISL_529786, EPI_ISL_529787, EPI_ISL_529788, EPI_ISL_529789, EPI_ISL_529790, EPI_ISL_529791, EPI_ISL_529792, EPI_ISL_529793, EPI_ISL_529794, EPI_ISL_529796, EPI_ISL_529797, EPI_ISL_529798, EPI_ISL_529799, EPI_ISL_529800, EPI_ISL_529801, EPI_ISL_529802	see above	NHLS-IALCH	Glandhari J, Pillay S, Lessells R, Mdalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T	
EPI_ISL_529961	Husada Utama Hospital	Institute of Tropical Disease, Universitas Airlangga	Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Radito Soearto, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529962	Universitas Airlangga Hospital	Institute of Tropical Disease, Universitas Airlangga	Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Nasronudin, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529963	Universitas Airlangga Hospital	Institute of Tropical Disease, Universitas Airlangga	Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Nasronudin, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529964	RSUD Bangil Pasuruan	Institute of Tropical Disease, Universitas Airlangga	Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Radito Soearto, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529965	RSUD Dr. Soetomo	Institute of Tropical Disease, Universitas Airlangga	Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Nasronudin, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_529966	RSUD Sidoarjo	Institute of Tropical Disease, Universitas Airlangga	Kazufumi Shimizu, Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Atok Irawan, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Maria I Lusida	
EPI_ISL_529967	RSUD Sidoarjo	Institute of Tropical Disease, Universitas Airlangga	Aldise M Nastri, Jezzy R Dewantari, Rima R Prasetya, Krisnoadi Rahardjo, Atok Irawan, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Lusida	
EPI_ISL_530347	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_530348, EPI_ISL_530349, EPI_ISL_530350	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_534311	UPA III 26 de Agosto	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534312	Distrito Sanitario Sul	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534313	Hospital da Sta Casa de Sto Amaro	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534314	Hospital Universitario da USP de SP	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534315	Serviço de Verificação de Óbitos SVO Guarulhos	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534316	OS Mun Santana Laura Ribas Braga	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534317	Hospital Geral de Itapevi	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534318	Hospital Municipal Antonio Giglio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534319, EPI_ISL_534320	Hospital do Serv Pub ESTAFCO Morato de Oliveira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534321	PS e Maternidade Nair Fonseca Leitao Arantes	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534322	PS Mun Julio Tupy	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534323	Hospital e Pronto Socorro Comunitario Vila Yolanda	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534324	Hospital Mun Ver Jose Storopoli	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534325	Unidade de Vigilancia em Saude de Guarulhos	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534326	Notre Dame Intermedia Saude AS	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes	
EPI_ISL_534336	Department of Laboratory Medicine, National Taiwan University Hospital	Microbial Genomics Core Lab, National Taiwan University Centers of Genomic and Precision Medicine	Shiou-Hwei Yeh, You-Yu Lin, Ya-Yun Lai, Chiao-Ling Li, Shan-Chwen Chang, Pei-Jer Chen, Sui-Yuan Chang	
EPI_ISL_534337, EPI_ISL_534338, EPI_ISL_534339, EPI_ISL_534340, EPI_ISL_534341, EPI_ISL_534342, EPI_ISL_534343, EPI_ISL_534344, EPI_ISL_534345	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Speranskaya AS, Kapte洛va VV, Samoilov AE, Valdokhina AV, Bulanenko VP, Bukharina A.Y., Tivanova EV, Shipulina OY, Akimkin VG	
EPI_ISL_534346, EPI_ISL_534347, EPI_ISL_534348, EPI_ISL_534349	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Speranskaya AS, Kapte洛va VV, Valdokhina AV, Bulanenko VP, Samoilov AE, Korneenko EV, Tivanova EV, Shipulina OY, Akimkin VG	
EPI_ISL_535390, EPI_ISL_535392, EPI_ISL_535394, EPI_ISL_535395, EPI_ISL_535396, EPI_ISL_535397, EPI_ISL_535398, EPI_ISL_535399, EPI_ISL_535400, EPI_ISL_535402, EPI_ISL_535403, EPI_ISL_535405, EPI_ISL_535406, EPI_ISL_535408, EPI_ISL_535410, EPI_ISL_535412, EPI_ISL_535414, EPI_ISL_535415, EPI_ISL_535416, EPI_ISL_535417, EPI_ISL_535418, EPI_ISL_535419, EPI_ISL_535420, EPI_ISL_535422, EPI_ISL_535424, EPI_ISL_535426, EPI_ISL_535428, EPI_ISL_535430, EPI_ISL_535432, EPI_ISL_535434, EPI_ISL_535436, EPI_ISL_535438, EPI_ISL_535440, EPI_ISL_535442, EPI_ISL_535443, EPI_ISL_535445, EPI_ISL_535446, EPI_ISL_535447, EPI_ISL_535448, EPI_ISL_535449, EPI_ISL_535450, EPI_ISL_535452, EPI_ISL_535454, EPI_ISL_535456, EPI_ISL_535458, EPI_ISL_535460, EPI_ISL_535462, EPI_ISL_535464, EPI_ISL_535466, EPI_ISL_535468, EPI_ISL_535470, EPI_ISL_535471, EPI_ISL_535472, EPI_ISL_535473, EPI_ISL_535475, EPI_ISL_535476, EPI_ISL_535478, EPI_ISL_535479, EPI_ISL_535480, EPI_ISL_535481, EPI_ISL_535483, EPI_ISL_535484, EPI_ISL_535486, EPI_ISL_535487, EPI_ISL_535488, EPI_ISL_535489, EPI_ISL_535490, EPI_ISL_535492, EPI_ISL_535494, EPI_ISL_535496, EPI_ISL_535498, EPI_ISL_535500, EPI_ISL_535501, EPI_ISL_535502, EPI_ISL_535503, EPI_ISL_535504, EPI_ISL_535506, EPI_ISL_535507, EPI_ISL_535508, EPI_ISL_535509, EPI_ISL_535510, EPI_ISL_535511, EPI_ISL_535512, EPI_ISL_535513, EPI_ISL_535514, EPI_ISL_535515, EPI_ISL_535516, EPI_ISL_535518, EPI_ISL_535520, EPI_ISL_535522, EPI_ISL_535523, EPI_ISL_535524, EPI_ISL_535525, EPI_ISL_535526, EPI_ISL_535527, EPI_ISL_535528, EPI_ISL_535529, EPI_ISL_535530, EPI_ISL_535531, EPI_ISL_535532, EPI_ISL_535533, EPI_ISL_535534, EPI_ISL_535535, EPI_ISL_535536, EPI_ISL_535537, EPI_ISL_535539, EPI_ISL_535540, EPI_ISL_535541, EPI_ISL_535542, EPI_ISL_535543, EPI_ISL_535544, EPI_ISL_535545, EPI_ISL_535546, EPI_ISL_535547, EPI_ISL_535548, EPI_ISL_535549, EPI_ISL_535550, EPI_ISL_535551, EPI_ISL_535552, EPI_ISL_535553, EPI_ISL_535554, EPI_ISL_535555, EPI_ISL_535556, EPI_ISL_535557, EPI_ISL_535558, EPI_ISL_535559, EPI_ISL_535560, EPI_ISL_535561, EPI_ISL_535562, EPI_ISL_535563, EPI_ISL_535564, EPI_ISL_535565, EPI_ISL_535566, EPI_ISL_535567, EPI_ISL_535568, EPI_ISL_535569, EPI_ISL_535570, EPI_ISL_535571, EPI_ISL_535572	see above	NHLS-IALCH	Glandhari J, Pillay S, Lessells R, Mdalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T	
EPI_ISL_535575	Hospital Universitari Germans Trias i Pujol(HUTGTP)/Fundació Lluita contra la SIDA (FLSida)	IrsiCaixa AIDS Research Lab	Marc Noguera-Julian, Mariona Parera, Maria Pilar Armengol, Marta Massanella, Ester Ballana, Lidia Ruiz, Nuria Izquierdo, Jorge Carrillo, Roger Paredes, Julia Blanco, Joaquim Segalés, Bonaventura Clotet	
EPI_ISL_536399	Laboratory of Immunobiology, Universidad de Antioquia	Instituto Nacional de Salud - Unidad de Secuenciación y Genómica	Wbeimar Aguilar-Jimenez, Lizdany Flórez, Francisco J. Díaz, Katherine Larion-Donato, Carlos Franco-Muñoz, Diego Álvarez-Díaz and Marcela Mercado-Reyes	
EPI_ISL_536411, EPI_ISL_536793	Medtimes Molecular Laboratory	Medtimes Molecular Laboratory	Eric Chan, Winsome Wong, Jacqueline Tam, Isaac Chow	
EPI_ISL_538435, EPI_ISL_538436, EPI_ISL_538437, EPI_ISL_538439, EPI_ISL_538440, EPI_ISL_538441, EPI_ISL_538443, EPI_ISL_538445, EPI_ISL_538446, EPI_ISL_538447, EPI_ISL_538449, EPI_ISL_538450, EPI_ISL_538451, EPI_ISL_538452, EPI_ISL_538453, EPI_ISL_538455, EPI_ISL_538456, EPI_ISL_538457, EPI_ISL_538458, EPI_ISL_538459, EPI_ISL_538460, EPI_ISL_538461, EPI_ISL_538462, EPI_ISL_538463, EPI_ISL_538464, EPI_ISL_538465, EPI_ISL_538466, EPI_ISL_538467, EPI_ISL_538468, EPI_ISL_538469, EPI_ISL_538470, EPI_ISL_538471, EPI_ISL_538472, EPI_ISL_538473, EPI_ISL_538474, EPI_ISL_538475, EPI_ISL_538476, EPI_ISL_538477, EPI_ISL_538478, EPI_ISL_538479, EPI_ISL_538480, EPI_ISL_538481, EPI_ISL_538482				



EPI_ISL_541138, EPI_ISL_541332, EPI_ISL_541333, EPI_ISL_541334	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EPI_ISL_541335	The National Institute of Public Health	Sidlištní 136/24 165 03, Prague Czech Republic	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EPI_ISL_541336	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EPI_ISL_541337	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EPI_ISL_541352	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Luciana Appolinario, Fernando Motta, Anna Carolina Paixão, Ana Carolina Mendonça, Jonathan Lopes, Marilda Siqueira	
EPI_ISL_541372, EPI_ISL_541374, EPI_ISL_541375, EPI_ISL_541376, EPI_ISL_541379, EPI_ISL_541383, EPI_ISL_541385	LACEN/SE	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Paola Resende, Luciana Appolinario, Fernando Motta, Anna Carolina Paixão, Ana Carolina Mendonça, Jonathan Lopes, Cliona Santos, Marilda Siqueira	
EPI_ISL_541970	Influenza Centre, University of Bergen	Norwegian Institute of Public Health, Department of Virology	Fan Zhou, Rebecca J Cox, Karl A Brokstad, Bjørn Blomberg, Kathrine Steine-Johansen, Kamilla Heddeland Instefjord, Hilde Elshaug, Rasmus Ris Kopperud, Hilde Synneve Vollan, Karoline Bragstad, Olav Hungnes	
see above	ASST GOM Niguarda	Dep. Of Oncology and Hemato-Oncology University of Milan	Claudia Alteri, Valeria Cento, Antonio Piralla, Valentino Costabile, Monica Tallarita, Luna Colagrossi, Silvia Renica, Federica Giardina, Federica Novazzi, Stefano Gaiarsa, Elisa Matarazzo, Maria Antonello, Chiara Vismara, Roberto Fumagalli, Oscar Massimiliano Epis, Massimo Puoti, Carlo Federico Perno, Fausto Baldanti	
EPI_ISL_542279, EPI_ISL_542101, EPI_ISL_542104, EPI_ISL_542106, EPI_ISL_542107, EPI_ISL_542110, EPI_ISL_542111, EPI_ISL_542114, EPI_ISL_542116, EPI_ISL_542118, EPI_ISL_542119, EPI_ISL_542120, EPI_ISL_542121, EPI_ISL_542122, EPI_ISL_542124, EPI_ISL_542128, EPI_ISL_542130, EPI_ISL_542131, EPI_ISL_542133, EPI_ISL_542145, EPI_ISL_542154, EPI_ISL_542155, EPI_ISL_542156, EPI_ISL_542158, EPI_ISL_542159, EPI_ISL_542162, EPI_ISL_542165, EPI_ISL_542166, EPI_ISL_542169, EPI_ISL_542170, EPI_ISL_542172, EPI_ISL_542173, EPI_ISL_542174, EPI_ISL_542178, EPI_ISL_542180, EPI_ISL_542181, EPI_ISL_542183, EPI_ISL_542192, EPI_ISL_542193, EPI_ISL_542194, EPI_ISL_542195, EPI_ISL_542196, EPI_ISL_542197, EPI_ISL_542198, EPI_ISL_542201, EPI_ISL_542202, EPI_ISL_542203, EPI_ISL_542204, EPI_ISL_542205, EPI_ISL_542206, EPI_ISL_542208, EPI_ISL_542209, EPI_ISL_542210, EPI_ISL_542211, EPI_ISL_542212, EPI_ISL_542213, EPI_ISL_542214, EPI_ISL_542215, EPI_ISL_542216, EPI_ISL_542218, EPI_ISL_542219, EPI_ISL_542220, EPI_ISL_542221, EPI_ISL_542222, EPI_ISL_542223, EPI_ISL_542234, EPI_ISL_542236, EPI_ISL_542237, EPI_ISL_542238, EPI_ISL_542239, EPI_ISL_542240, EPI_ISL_542241, EPI_ISL_542243, EPI_ISL_542248, EPI_ISL_542249, EPI_ISL_542250, EPI_ISL_542251, EPI_ISL_542252, EPI_ISL_542253, EPI_ISL_542254, EPI_ISL_542255, EPI_ISL_542256, EPI_ISL_542257, EPI_ISL_542258, EPI_ISL_542260, EPI_ISL_542261, EPI_ISL_542262, EPI_ISL_542263, EPI_ISL_542264, EPI_ISL_542274, EPI_ISL_542275, EPI_ISL_542276, EPI_ISL_542277	see above	ASST GOM Niguarda	Dep. Of Oncology and Hemato-Oncology University of Milan	Claudia Alteri, Valeria Cento, Antonio Piralla, Valentino Costabile, Monica Tallarita, Luna Colagrossi, Silvia Renica, Federica Giardina, Federica Novazzi, Stefano Gaiarsa, Elisa Matarazzo, Maria Antonello, Chiara Vismara, Roberto Fumagalli, Oscar Massimiliano Epis, Massimo Puoti, Carlo Federico Perno, Fausto Baldanti
EPI_ISL_542308, EPI_ISL_542309, EPI_ISL_542310, EPI_ISL_542311, EPI_ISL_542312, EPI_ISL_542313, EPI_ISL_542314, EPI_ISL_542315, EPI_ISL_542316, EPI_ISL_542317, EPI_ISL_542318, EPI_ISL_542319, EPI_ISL_542320, EPI_ISL_542321, EPI_ISL_542322, EPI_ISL_542323, EPI_ISL_542324, EPI_ISL_542325, EPI_ISL_542326, EPI_ISL_542327, EPI_ISL_542328, EPI_ISL_542329, EPI_ISL_542330, EPI_ISL_542331, EPI_ISL_542332, EPI_ISL_542333, EPI_ISL_542334, EPI_ISL_542335, EPI_ISL_542336, EPI_ISL_542337, EPI_ISL_542338, EPI_ISL_542339, EPI_ISL_542340, EPI_ISL_542341, EPI_ISL_542342, EPI_ISL_542343, EPI_ISL_542344, EPI_ISL_542345, EPI_ISL_542346, EPI_ISL_542347, EPI_ISL_542348, EPI_ISL_542349, EPI_ISL_542350, EPI_ISL_542351, EPI_ISL_542352, EPI_ISL_542353, EPI_ISL_542354, EPI_ISL_542355, EPI_ISL_542357, EPI_ISL_542358, EPI_ISL_542359, EPI_ISL_542360, EPI_ISL_542361, EPI_ISL_542362, EPI_ISL_542363, EPI_ISL_542364, EPI_ISL_542365, EPI_ISL_542366, EPI_ISL_542367, EPI_ISL_542370, EPI_ISL_542371, EPI_ISL_542372, EPI_ISL_542373, EPI_ISL_542374, EPI_ISL_542375, EPI_ISL_542376, EPI_ISL_542377, EPI_ISL_542378, EPI_ISL_542379, EPI_ISL_542381, EPI_ISL_542382, EPI_ISL_542383, EPI_ISL_542384, EPI_ISL_542385, EPI_ISL_542386, EPI_ISL_542387, EPI_ISL_542388, EPI_ISL_542389, EPI_ISL_542390, EPI_ISL_542391, EPI_ISL_542392	see above	San Matteo Hospital Pavia	Dep. Of Oncology and Hemato-Oncology University of Milan	Claudia Alteri, Valeria Cento, Antonio Piralla, Valentino Costabile, Monica Tallarita, Luna Colagrossi, Silvia Renica, Federica Giardina, Federica Novazzi, Stefano Gaiarsa, Elisa Matarazzo, Maria Antonello, Chiara Vismara, Roberto Fumagalli, Oscar Massimiliano Epis, Massimo Puoti, Carlo Federico Perno, Fausto Baldanti
EPI_ISL_542413, EPI_ISL_542415, EPI_ISL_542419, EPI_ISL_542420, EPI_ISL_542421, EPI_ISL_542422, EPI_ISL_542423, EPI_ISL_542424, EPI_ISL_542425, EPI_ISL_542426, EPI_ISL_542427, EPI_ISL_542428, EPI_ISL_542429, EPI_ISL_542431, EPI_ISL_542432, EPI_ISL_542433, EPI_ISL_542434, EPI_ISL_542435, EPI_ISL_542436, EPI_ISL_542437, EPI_ISL_542438, EPI_ISL_542439, EPI_ISL_542440, EPI_ISL_542441	see above	ASST GOM Niguarda	Dep. Of Oncology and Hemato-Oncology University of Milan	Claudia Alteri, Valeria Cento, Antonio Piralla, Valentino Costabile, Monica Tallarita, Luna Colagrossi, Silvia Renica, Federica Giardina, Federica Novazzi, Stefano Gaiarsa, Elisa Matarazzo, Maria Antonello, Chiara Vismara, Roberto Fumagalli, Oscar Massimiliano Epis, Massimo Puoti, Carlo Federico Perno, Fausto Baldanti
EPI_ISL_545580, EPI_ISL_545954, EPI_ISL_545956	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_545957, EPI_ISL_546436, EPI_ISL_546935, EPI_ISL_546936	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EPI_ISL_547570	PS Municipal Dr Augusto Gomes de Mattos	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547571	Hospital Municipal Antônio Giglio	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547573	Vigilância em Saúde de Cajamar	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547574	Hospital Universitário da USP	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547575	SVO Jundial	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547576	Secretaria Municipal de Saúde	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547577	Hospital e Maternidade Nossa Senhora das Graças	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547578	Hospital Doutor Domingos Leonardo Cerávolo	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547579	Santa Casa de Misericórdia de Araçatuba	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547580	Santa Casa da Misericórdia de Presidente Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos	
EPI_ISL_547966, EPI_ISL_547967, EPI_ISL_547968	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_548208, EPI_ISL_548214	Laboratoire de Virologie, HUG	Swiss National Reference Centre for Influenza	LAUBSCHER F.	
EPI_ISL_548243, EPI_ISL_548244	Faith Laboratory, Immunology Institute, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Graham J. Britton, Alice Chen-Liaw, Francesca Cossarini, Alexandra Livanos, Matthew P. Spindler, Tamar Plitt, Joseph Eggers, Ilaria Mogno, Ana S. Gonzalez-Reiche, Sophia Sui, Michael Tankelevich, Lauren Tal Grinspan, Rebekah E. Dixon, Divya Jha, Gustavo Martinez-Delgado, Fatima Amanat, Daisy Hoagland, Benjamin R. tenOever, Maria C. Dubinsky, Miriam Merad, Harm Van Bakel, Florian Krammer, Gerold Bongers, Saurabh Mehndru and Jeremiah J. Faith	
EPI_ISL_548966, EPI_ISL_548967, EPI_ISL_548968, EPI_ISL_548970, EPI_ISL_548971	Expo2020 Emergency Center	Agiomix	Walaa Allam, Cherif Ben Hamada, Cengiz Yakicier, Walid Dridi, Rashid Mohammed, Tamer Degheidy	
EPI_ISL_560407	Istituto Zooprofilattico Sperimentale del Mezzogiorno	INMI Lazzaro Spallanzani IRCCS	Barbara Bartolini, Cesare E.M. Gruber, Martina Rueca, Francesca Messina, Antonino Di Caro, Giovanna Fusco, Maurizio Viscardi, Giorgia Borriello, Sergio Brandi, Maria R. Capobianchi	
EPI_ISL_560408, EPI_ISL_560409, EPI_ISL_560410, EPI_ISL_560411, EPI_ISL_560412	The National Institute of Public Health	State Veterinary Institute Prague	Nagy, A; Jirincova, H; Novakova, L; Trnka, D; Vecerova, J	
EPI_ISL_560568, EPI_ISL_560569, EPI_ISL_560570, EPI_ISL_560571, EPI_ISL_560572, EPI_ISL_560573, EPI_ISL_560574, EPI_ISL_560575, EPI_ISL_560576, EPI_ISL_560577, EPI_ISL_560578, EPI_ISL_560579, EPI_ISL_560580	see above	hôpital	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560581, EPI_ISL_560582, EPI_ISL_560583, EPI_ISL_560584, EPI_ISL_560585, EPI_ISL_560586, EPI_ISL_560587, EPI_ISL_560588, EPI_ISL_560589, EPI_ISL_560590	Hôpital	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560591, EPI_ISL_560592, EPI_ISL_560593, EPI_ISL_560594, EPI_ISL_560595, EPI_ISL_560596, EPI_ISL_560597	hospital	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560623, EPI_ISL_560624, EPI_ISL_560625, EPI_ISL_560626, EPI_ISL_560627, EPI_ISL_560628, EPI_ISL_560629, EPI_ISL_560630, EPI_ISL_560631, EPI_ISL_560632, EPI_ISL_560633, EPI_ISL_560634, EPI_ISL_560635, EPI_ISL_560636	see above	Hospital	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560637, EPI_ISL_560638, EPI_ISL_560639, EPI_ISL_560640, EPI_ISL_560641, EPI_ISL_560642	Labo Analyses Med	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560643, EPI_ISL_560644, EPI_ISL_560645, EPI_ISL_560646	Hospital	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_560991	RSUD Dr. Soetomo	Institute of Tropical Disease, Universitas Airlangga	Rima R Prasetya, Krisnoadi Rahardjo, Aldise M Nastri, Jezzy R Dewantari, Joni Wahyuhadi, Gatot Soegiarto, Laksmi Wulandari, Retno A Setyoningrum, Resti Yudhawati, Yohko K Shimizu, Mitsuhiro Nishimura, Yasuko Mori, Soetjipto, Kazufumi Shimizu, Maria I Luisa	
EPI_ISL_566077, EPI_ISL_566078, EPI_ISL_566079, EPI_ISL_566080, EPI_ISL_566081, EPI_ISL_566082, EPI_ISL_566083	Pathogenic Microorganisms Variability Laboratory	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Anna Ivanova, Kseniya Komissarova, Daria Danilenko, Dmitry Liozov, Nadezhda Kuznetsova, Elena Shidlovskaya, Elizaveta Divisenko, Ekaterina Milashenok, Kirill Krasnolobtsev, Evgeniya Mukasheva, Anna Ignatieva, Svetlana Trushkova, Alexey Schetinin, Maria Nikiforova, Andrey Pochtovyy, Valeria Bacalini, Evgeny Usachev, Olga Burgasova, Ludmila Kolobukhina, Svetlana Smetanina, Elena Burtsve, Artem Tkachuk, Vladimir Guschin, Alexander Gintsburg	
EPI_ISL_568577	The National Institute of Public Health	State Veterinary Institute Prague	Nagy, A; Jirincova, H; Novakova, L; Trnka, D; Vecerova, J	
EPI_ISL_568579	Virus Molecular Laboratory of the Microbiology and Virology Department	INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesca Messina, Silvia Meschi, Francesca Colavita, Concetta Castilletti, Elena Percivalle, Irene Cassaniti, Edoardo Vecchio, Nepita, Fausto Baldanti, Maria R. Capobianchi, Antonino Di Caro	
EPI_ISL_568686	RSUD Dr. Margono Soekarno	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Agustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio	
EPI_ISL_568687	RSUP Fatmawati	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Agustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio	
EPI_ISL_568688	RS Pelni	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Agustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio	
EPI_ISL_568689	RS Pondok Indah Puri Indah	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Agustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio	

EPI_ISL_568691	RSUP Fatmawati	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_568692	RS Kramat 128	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_568693	RS Freeport Tembagapura	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_568694	RSUP Prof. Dr. R. Kandou Manado	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_568873, EPI_ISL_568874, EPI_ISL_568875	Malaysia Genome Institute	Malaysia Genome Institute	Mohd Noor Mat Isa, Irm Suhayu Sapian, Yusuf Muhamad Noor, Nurzeen Md Idbal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Shahru Hisham Zainal Ariffin Rawlinson, W., Deveson, I., Bull, R., Van Hal, S.
EPI_ISL_569858	Area of Virology, Serology and Virology Division (SAVID), New South Wales Health Pathology Randwick	Area of Virology, Serology and Virology Division (SAVID), New South Wales Health Pathology Randwick	Michele Simonetti, Maria Grazia Milia, Luuk Harbers, Ning Zhang, Anna Sapiro, Valeria Ghisetti, Nicola Crosetto Maurizio Viscardi, Lorena Cardillo, Giovanna Fusco
EPI_ISL_569865, EPI_ISL_569866, EPI_ISL_569867, EPI_ISL_569868, EPI_ISL_569869, EPI_ISL_569870, EPI_ISL_569871, EPI_ISL_569872, EPI_ISL_569873, EPI_ISL_569875, EPI_ISL_569876, EPI_ISL_569877, EPI_ISL_569878, EPI_ISL_569879, EPI_ISL_569880, EPI_ISL_569881, EPI_ISL_569882, EPI_ISL_569883, EPI_ISL_569884, EPI_ISL_569885, EPI_ISL_569886	see above	Crosetto lab, Karolinska Institutet, SciLifeLab	
EPI_ISL_572320, EPI_ISL_572321, EPI_ISL_572322, EPI_ISL_572323, EPI_ISL_572324	IZSM	IZSM	
EPI_ISL_572330, EPI_ISL_572331	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Maximilian Damagnez, Verena Keitel, Björn Jensen, Nadine Lübke, Lisa Müller, Philipp Ostermann, Tina Senff, Ortwin Adams, Philipp Albrecht, Gerald Antoch, Johannes Bode, Edwin Bölké, Saskia Elben, Torsten Feldt, Johannes C. Fischer, , Anselm Kunstein, Caroline Klindt, Alexander Killer, Tom Lüdde, Annemarie Mohring, Jennifer Neubert, Heiner Schaal, Ansgar Schulz, Jörg Timm, Andreas Walker
EPI_ISL_572351, EPI_ISL_572386	LACEN/PE	WallauLab, Aggeu Magalhaes Institute	Marcelo Henrique Santos Paiva, Duschinka Ribeiro Duarte Guedes, Cássia Docena, Matheus Filgueira Bezerra, Filipe Zimmer Desordzi, Lais Ceschin Machado, Larissa Krokovsky, Eliana Helvecio, Alexandre Freitas da Silva, Lydyson Richardson Silva Vasconcelos, Antonio Mauro Rezende, Severino Jefferson Ribeiro da Silva, Kamila Gaudêncio da Silva Sales, Bruno Santos Lima Figueiredo de Sá, Dercílio Lopes da Cruz, Claudio Eduardo Cavalcanti, Armando de Menezes Neto, Caroline Targino Alves da Silva, Renata Pessôa Germano Mendes, Maria Almerica Lopes da Silva, Tiago Gráf, Paola Cristina Resende, Gonzalo Bellón, Michelle da Silva Barros, Wheverton Ricardo Correia do Nascimento,, Rodrigo Moraes Loyo Arcocerde, Luciane Caroline Albuquerque Bezerra, Sinval Pinto Brando Filho, Constança Flávia Junqueira Ayres, Gabriel Luz Wallau
EPI_ISL_572397	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Maximilian Damagnez, Verena Keitel, Björn Jensen, Nadine Lübke, Lisa Müller, Philipp Ostermann, Tina Senff, Ortwin Adams, Philipp Albrecht, Gerald Antoch, Johannes Bode, Edwin Bölké, Saskia Elben, Torsten Feldt, Johannes C. Fischer, , Anselm Kunstein, Caroline Klindt, Alexander Killer, Tom Lüdde, Annemarie Mohring, Jennifer Neubert, Heiner Schaal, Ansgar Schulz, Jörg Timm, Andreas Walker
EPI_ISL_572398	Laboratory of Biology and Identification of Arboviruses	Pathogenic Microorganisms Variability Laboratory	Alexey Shchetinin, Maria Nikiforova, Andrei Siniavin, Victor Larichev, Alina Koziava, Muhammad Saifullin, Alexey Prilipov, Vladimir Gushchin, Alexander Gintsburg
EPI_ISL_573152, EPI_ISL_574259	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Institute for Virology, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University Duesseldorf	Maximilian Damagnez, Verena Keitel, Björn Jensen, Nadine Lübke, Lisa Müller, Philipp Ostermann, Tina Senff, Ortwin Adams, Philipp Albrecht, Gerald Antoch, Johannes Bode, Edwin Bölké, Saskia Elben, Torsten Feldt, Johannes C. Fischer, , Anselm Kunstein, Caroline Klindt, Alexander Killer, Tom Lüdde, Annemarie Mohring, Jennifer Neubert, Heiner Schaal, Ansgar Schulz, Jörg Timm, Andreas Walker
EPI_ISL_574431	Hospital IESS Babahoyo	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Suly Márquez, Juan José Guadalupe, Monica Becerra-Wong, Fernanda Zurita, Bernardo Gutiérrez, Francisco Cordova, Ninfa Henríquez, Killen Briones-Zamora, Killen Briones-Claudette, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Micheline Grunauer, Paul Cárdenes
EPI_ISL_574577	Hospital Municipal Dr. Ignacio Proenca de Gouveia	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574578	Hospital Municipal Mário Gatti	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574579	Hospital Municipal Dr. Ignacio Proenca de Gouveia	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574580	Hospital Cidade Tiradentes Carmen Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574582	Hospital Municipal Dr. Jose Soares Hungria	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574583	Secretaria Municipal de Saude de Jandira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574588	Hospital Estadual Sumare	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574589	Hospital Municipal Dr. Jose Soares Hungria	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574590	Unidade de Pronto Atendimento UPA I Santa Isabel	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574591, EPI_ISL_574592	Hospital Domingos Leonardo Ceravolo Presidente Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574593	CS II Dr. Antonio Vicos Moreira de Rezende Sumare	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574594	Hospital Escola da Universidade de Taubate	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574595	Hospital Geral de Vila Penteado Dr. Jose Pamgella	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574596	CS II Dr. Antonio Vicos Moreira de Rezende Sumare	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574597	Secretaria Municipal de Saude de Jarinu	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574598	Servico de Verificacao de Obito SVO	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_574603	RS Freeport Tembagapura	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574604	RSUP Prof. Dr. R. Kandou Manado	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574605	RSUP Dr. Sardjito	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574606	RS Siloam Purwakarta	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574607	RS Husada	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574608	RS Mitra Keluarga Kelapa Gading	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574609	RSJPD Harapan Kita	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574610	Puskesmas Tambora	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574611	RS Premier Bintaro	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574612	RS Hermina Mekarsari	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574614	RS Kramat 128	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574615	RS Harapan Bunda	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574616, EPI_ISL_574617	RS Kramat 128	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574618	RS Kramat 128	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Frilasita A Yudhaputri, Edison Johar, Hidayat Trimarsanto, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574619, EPI_ISL_574620, EPI_ISL_574621, EPI_ISL_574622, EPI_ISL_574623	BTKLPP Kelas I Manado	Eijkman Institute for Molecular Biology, Ministry of Research and Technology/National Agency for Research and Innovation	Hidayat Trimarsanto, Frilasita A Yudhaputri, Edison Johar, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_574623			Hidayat Trimarsanto, Frilasita A Yudhaputri, Edison Johar, Iskandar A Adnan, Willy Augustine, David H Muljono, Safarina G Malik, Herawati Sudoyo, Khin Saw Myint, Amin Soebandrio
EPI_ISL_575330	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control and Prevention, China CDC	Rongbao Gao, Kang Xiao, Qinjin Song, ZhiQiang Xia, Dong Xia, Juan Song, Haijun Du, Yuan He, Shuai Pang, Xuancheng Lu, Guizhen Wu, Geogia Fu Gao, Jun Han
EPI_ISL_575331	RSUD Wates	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yatasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, , Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Bastianto Kusumajaya, Zumrati Ahmad, Alvin S. Kalim, Susan Simanjaya
EPI_ISL_576113	RSUP Dr. Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yatasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, , Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Riat El Khair, William Widitjarso, Fadil Fahrni
EPI_ISL_576114	RSUP Dr. Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yatasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, , Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Riat El Khair, Yunika Puspadiwati, Osman Sianipar, Umie Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Untung Wirawan, Maria Patricia Inggriani
EPI_ISL_576115	RSUP Dr Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yatasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, , Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Riat El Khair, Yunika Puspadiwati, Osman Sianipar, Umie Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Untung Wirawan, Maria Patricia Inggriani
EPI_ISL_576116	RSUP Dr. Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yatasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, , Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Riat El Khair, Yunika Puspadiwati, Osman Sianipar, Umie Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Untung Wirawan, Maria Patricia Inggriani

EPI_ISL_576128	RSUP Dr. Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Sumardi, Eko Budiono, Bambang Sigit Riyanto, Heni Retnowulan, Munawar Gani, Satria Maulana, Nur Rahmi Ananda, Riat El Khair, Yunika Puspadevi, Osman Sianipar, Umi Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Dyah Ayu Puspitarni, Kemala Atholah
EPI_ISL_576130	RSUP Dr. Sardjito	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Rina Triasih, Amalia Setyati, Dwikisworo Setiowiyeni, Ida Safriti Laksanawati, Cahya Dewi Satrisa, Titik Widowati, Elisabeth Siti Herini, Riat El Khair, Yunika Puspadevi, Osman Sianipar, Umi Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Alvin S. Kalim, Susan Simanjary, Desyfa Mursalin
EPI_ISL_576145	RSA Universitas Gadjah Mada	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, William Widitjarsa, Fadi Fahl
EPI_ISL_576146, EPI_ISL_576147, EPI_ISL_576148	Department of Respiratory & Other Viral Infections of L.V. Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine	Department of Respiratory & Other Viral Infections of L.V. Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine, JSC "Farmak"	Alla Mironenko, Ihor Kravchuk, Liudmyla Bolotova, Larysa Radchenko, Natalia Teteriuk
EPI_ISL_576149	Department of Respiratory & Other Viral Infections of L.V. Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine	Department of Respiratory & Other Viral Infections of L.V. Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine, JSC "Farmak"	Alla Mironenko, Andriy Goy, Ihor Kravchuk, Liudmyla Bolotova, Larysa Radchenko, Natalia Teteriuk
EPI_ISL_576258, EPI_ISL_576259, EPI_ISL_576260	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Fabiola Garces-Ayala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_576261, EPI_ISL_576262, EPI_ISL_576263	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_576264, EPI_ISL_576265	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_576266, EPI_ISL_576267, EPI_ISL_576268, EPI_ISL_576269, EPI_ISL_576270, EPI_ISL_576271	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Fabiola Garces-Ayala, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_576272	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Fabiola Garces-Ayala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_576273	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Fabiola Garces-Ayala, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_576274, EPI_ISL_576275, EPI_ISL_576276	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Gisela Barrera-Badillo , Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez.
EPI_ISL_576277, EPI_ISL_576278	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_576279	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Fabiola Garces-Ayala, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Gisela Barrera-Badillo.
EPI_ISL_576383	RSUD Budi Rahayu Kota Magelang	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahlia World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM; Balai Besar Teknik Kesehatan Lingkungan dan Pengendalian Penyakit (BTKLPP) Yogyakarta	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Irene, Indaryati, Havid Setyawan, Ari Melyanti, Merlana Sari Situmeang, Audric Kenny Tedja, Aditya Rifqi Faizi
EPI_ISL_577624, EPI_ISL_577625, EPI_ISL_577626, EPI_ISL_577627, EPI_ISL_577628, EPI_ISL_577629, EPI_ISL_577630, EPI_ISL_577631, EPI_ISL_577632, EPI_ISL_577633, EPI_ISL_577634, EPI_ISL_577635, EPI_ISL_577636, EPI_ISL_577637, EPI_ISL_577638	see above	The National Institute of Public Health Hospital General Juan Ramón Jiménez	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_578186	Hospital General Juan Ramón Jiménez	State Veterinary Institute Prague	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. J. Saavedra
EPI_ISL_578187, EPI_ISL_578188	Hospital Virgen de las Nieves	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. J. M Navarro
EPI_ISL_578189	Hospital Universitario Miguel Servet	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. A. Rezusta
EPI_ISL_578190, EPI_ISL_578191	Hospital Clínico Universitario Lozano Blesa	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. R. Benito
EPI_ISL_578192, EPI_ISL_578193	Hospital Universitario Miguel Servet	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. A. Rezusta
EPI_ISL_578194	Complejo Hospitalario Universitario La Coruna	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. J. López
EPI_ISL_578195	Complejo Hospitalario de Orense	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. M. García
EPI_ISL_578196	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. J. M. Azcona
EPI_ISL_578197	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. C. Alonso
EPI_ISL_578198, EPI_ISL_578199	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. M. Blasco
EPI_ISL_578200, EPI_ISL_578201	Hospital San Pedro	Instituto de Salud Carlos III	Iglesias-Caballero, M. Molinero Calamita, M. González-Esguevillas, M. Camarero, S. Pozo, F. Casas, I. Jiménez, M. Zaballos, A. Monzón, S. Varona, S. Juliá, M. Cuesta, I. C. Alonso
EPI_ISL_582030	Biology Department, College of Science, Al-Muthanna University	International Centre for Genetic Engineering and Biotechnology (ICGEB) and ARGO Open Lab Platform	Nihad Al-Rashedi, Danilo Licastro, Sreejith Rajasekharan, Simeone Dal Monego, Alessandro Marcello
EPI_ISL_582033	Department of Pathology, School of Medicine, Imam Khomeini Hospital, Tehran University of Medical Sciences	Genetics Research Center, University Of Social Welfare And Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalalvand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Azar Hadadi, Alireza Abdollahi, Ali Jafarpour, Azam Ghaziasadi, Seyedeh elham Mortazavi, Sabor Soltan, Reza Najafipour , Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_582124	Malaysia Genome Institute	Malaysia Genome Institute	Mohd Noor Mat Isa, Irm Suhayu Sapian, Yusuf Muhamad Noor, Nurhezreen Md Ibdal, Mohd Faizal Abu Bakar, Eniza Kasim, Shamsidar Sopie, Siti Noraini Othman, Azrin Ahmad, Nor Afza Johari, Shahru Hisham Zainal Ariffin
EPI_ISL_582126	Sheikh Khalifa Medical City	Molecular Surveillance lab Sheikh Khalifa Medical City	Amirthraj Francis, Sajeed Abdul, Hala Imambaccus, Sahar Almarzoqi, Hiba Saud, Stefan Weber
EPI_ISL_582127, EPI_ISL_582128, EPI_ISL_582129, EPI_ISL_582130, EPI_ISL_582131, EPI_ISL_582132	Antwerp University Hospital	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony
EPI_ISL_582509	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine, JSC "Farmak"	Alla Mironenko, Andriy Goy, Ihor Kravchuk, Ludmyla Bolotova, Larysa Radchenko, Natalia Teteriuk
EPI_ISL_582510	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine, JSC "Farmak"	Alla Mironenko, Andriy Goy, Ihor Kravchuk, Ludmyla Bolotova, Larysa Radchenko, Natalia Teteriuk
EPI_ISL_582511, EPI_ISL_582512, EPI_ISL_582513	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine	Department of Respiratory and other Viral Infections of L.V.Gromashevsky Institute of Epidemiology & Infectious Diseases NAMS of Ukraine, JSC "Farmak"	Alla Mironenko, Andriy Goy, Ihor Kravchuk, Ludmyla Bolotova, Larysa Radchenko, Natalia Teteriuk
EPI_ISL_582608, EPI_ISL_582613, EPI_ISL_582620, EPI_ISL_582624, EPI_ISL_582625, EPI_ISL_582643, EPI_ISL_582644, EPI_ISL_582645, EPI_ISL_582646, EPI_ISL_582647, EPI_ISL_582648, EPI_ISL_582649, EPI_ISL_582650, EPI_ISL_582651, EPI_ISL_582652, EPI_ISL_582653, EPI_ISL_582654, EPI_ISL_582655, EPI_ISL_582656, EPI_ISL_582662, EPI_ISL_582663, EPI_ISL_582674, EPI_ISL_582675, EPI_ISL_582679, EPI_ISL_582680, EPI_ISL_582681, EPI_ISL_582688	see above	Molecular/Surveillance lab Sheikh Khalifa Medical City	Amirthraj Francis, Sajeed Abdul, Hala Imambaccus, Sahar Almarzoqi, Hiba Saud, Stefan Weber
EPI_ISL_583426	Sheikh Khalifa Medical City	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana van de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohi, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583427, EPI_ISL_583428	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana van de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohi, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj

EPI_ISL_583429	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583431, EPI_ISL_583432, EPI_ISL_583433	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583434, EPI_ISL_583435, EPI_ISL_583436	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583437, EPI_ISL_583439, EPI_ISL_583440	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583441, EPI_ISL_583442	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583443, EPI_ISL_583445, EPI_ISL_583446, EPI_ISL_583448, EPI_ISL_583449, EPI_ISL_583456, EPI_ISL_583457	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583458, EPI_ISL_583459	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583460, EPI_ISL_583461, EPI_ISL_583462	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583463, EPI_ISL_583464	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583465, EPI_ISL_583466	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583467	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583468, EPI_ISL_583469, EPI_ISL_583470, EPI_ISL_583472	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583473	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583476	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583477	Garcia-Sastre Laboratory, Department of Microbiology, Icahn School of Medicine at Mount Sinai	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583479, EPI_ISL_583480	Memorial Sloan Kettering Cancer Center	van Bakel Laboratory, Genetics and Genomics Sciences, Icahn School of Medicine at Mount Sinai	Teresa Aydillo, Ana S. Gonzalez-Reiche, Sadaf Aslam, Adriana de Guchte, Zenab Khan, Ajay Obla, Jayeeta Dutta, Harm van Bakel, Judith Aberg, Adolfo García-Sastre, Gunjan Shah, Tobias Hohl, Genovefa Papanicolaou, Miguel-Angel Perales, Kent Sepkowitz, Ngolela Esther Babady, and Mini Kamboj
EPI_ISL_583490	Hospital Estadual Sumare	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583491	Centro de Saude Esf IV Zona Real Domingos de SJ Rio Pardo	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583492	Santa Casa Anna Cintra	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583493	Vigilancia em Saude de Cajamar	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583494	CS II Dr. Antonio Vicoso Moreira de Resende Sumare	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583495	Serviço de Verificação de Óbitos SVO Guarulhos	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583496	UPA Jandira	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583497	Complexo Hospital Ouro Verde de Campinas	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583498	Hospital Municipal Dr. Waldemar Tebaldi	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583499	Distrito Sanitario Sul Campinas	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583500	Centro de Saude I Tacito Leite de Carvalho e Silva	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583502	Serv de Vig Sanitaria Epidemi o CTR de Zoonoses Guaruja	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583503	CTA Centro de Testagem e Aconselhamento	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583504, EPI_ISL_583505	Casa de Saude Stella Maris	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes, Karoline Rodrigues Campos
EPI_ISL_583893, EPI_ISL_583894, EPI_ISL_583895, EPI_ISL_583896, EPI_ISL_583897, EPI_ISL_583898, EPI_ISL_583899, EPI_ISL_583900	Singapore General Hospital	Department of Microbiology	Nurdyana Abdul Rahman, Kun Lee Lim, Chenhao Li, Sui Sin Goh, Kenneth Xin Long Chan, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Nirajan Nagarajan, Karrie Ko
EPI_ISL_584048	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Delbue,S., Modenese,A., Bianchi,M., Fattori,M., D'Alessandro,S., Pariani,E., Basilico,N., Galli,C. and Ferrante,P.
EPI_ISL_584049	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Delbue,S., Modenese,A., Bianchi,M., Fattori,M., D'Alessandro,S., Pariani,E., Basilico,N., Galli,C. and Ferrante,P.
EPI_ISL_584052	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Laboratory of Molecular Virology, Department of Biomedical, Surgical and Dental Sciences University of Milano	Delbue,S., D'Alessandro,S., Modenese,A., Signorini,L., Parapini,S., Dolci,M., Binda,S., Primache,V., Taramelli,D., Incorvia,B. and Ferrante,P.
EPI_ISL_584069, EPI_ISL_584071, EPI_ISL_584072	IZSM	IZSM	Maurizio Viscardi, Lorena Cardillo, Giovanna Fusco
EPI_ISL_584073, EPI_ISL_584074, EPI_ISL_584075, EPI_ISL_584076, EPI_ISL_584077, EPI_ISL_584078, EPI_ISL_584079, EPI_ISL_584080, EPI_ISL_584082	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,Ajirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_586513	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586514	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586515	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586516	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586517	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586518	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586519	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Zuber Saiyed, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586520	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586521	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Labdh Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586522	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi



EPI_ISL_586569	GCRI,Ahmedabad	Gujarat Biotechnology Research Centre	Shashank Pandya, Harsha Panchal, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_586570	GCRI,Ahmedabad	Gujarat Biotechnology Research Centre	Harsha Panchal, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Sayied, Komal Patel, Labdh Pandya, Afzal Ansari, Nikha Trivedi, Shashank Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_590693	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Barbara Bartolini, Cesare E.M. Gruber, Francesco Messina, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Maria R. Capobianchi, Antonino Di Caro
EPI_ISL_590694	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Barbara Bartolini, Martina Rueca, Francesco Messina, Cesare E.M. Gruber, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Antonino Di Caro, Maria R. Capobianchi
EPI_ISL_590695	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Francesco Messina, Barbara Bartolini, Martina Rueca, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Antonino Di Caro, Maria R. Capobianchi
EPI_ISL_590696	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Martina Rueca, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Antonino Di Caro, Maria R. Capobianchi
EPI_ISL_590697	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Martina Rueca, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Antonino Di Caro, Maria R. Capobianchi
EPI_ISL_590698	INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS	Barbara Bartolini, Francesco Messina, Cesare E.M. Gruber, Martina Rueca, Emanuela Giombini, Beatrice Valli, Eleonora Lalle, Simone Lanini, Francesco Vairo, Antonino Di Caro, Maria R. Capobianchi
EPI_ISL_591272, EPI_ISL_591273, EPI_ISL_591274, EPI_ISL_591275, EPI_ISL_591276, EPI_ISL_591277, EPI_ISL_591278, EPI_ISL_591279, EPI_ISL_591280	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control and Prevention, China CDC	Huilai Ma, Zhaoguo Wang, Xiang Zhao, Jun Han, Yong Zhang, Hong Wang, Cao Chen, Ji Wang, Jingdong Song, Yao Meng, Yuchao Wu, Zhixiao Chen, Dayan Wang, Ruqin Gao, George F.Gao, Wenbo Xu
EPI_ISL_591471, EPI_ISL_591472, EPI_ISL_591473, EPI_ISL_591474, EPI_ISL_591475, EPI_ISL_591476, EPI_ISL_591477, EPI_ISL_591478, EPI_ISL_591479, EPI_ISL_591480, EPI_ISL_591481, EPI_ISL_591482, EPI_ISL_591483 see above	Pathogen Genomics Center, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Tomoe Shimada, Makoto Kuroda
EPI_ISL_593478, EPI_ISL_593479, EPI_ISL_593480, EPI_ISL_593553, EPI_ISL_593556	Brigham and Women's Hospital	Jonathan Li Laboratory	Manish C. Choudhary, James Regan, Jonathan Z. Li
EPI_ISL_593596	Swedish Medical Center, Seattle, WA, USA	Institute for Systems Biology	Jason D. Goldman, Kai Wang, Katharina Röltgen, Sandra C. Nielsen, Jared C. Roach, Samia N. Naccache, Fan Yang, Oliver F. Wirz, Kathryn E. Yost, Ji-Yeon Lee, Kelly Chun, Terri Wrin, Christos J. Petropoulos, Inyoul Lee, Shannon Fallon, Paula M. Manner, Julie A. Wallick, Heather A. Algren, RN, Kim M. Murray, Yapeng Su, Jennifer Hadlock, Joshua Jeharajah, William R. Berrington, George P. Pappas, Sonam T. Nyatsetsang, Alexander T. Saptathy, John S. Pauk, Scott D. Boyd, James R. Heath
EPI_ISL_593902	Sentinelles, Limay	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593903	Hospital, Argenteuil	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593904, EPI_ISL_593905, EPI_ISL_593906, EPI_ISL_593907, EPI_ISL_593908, EPI_ISL_593909	Labo Analyses Med, Sarcelles	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593910	Hospital, Boulogne-Billancourt	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593911	Hospital, Le Chesnay Cédex	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593912	Hospital, Marange Silvange	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593913	Hospital, Talange	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593914	Hospital, Metz	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593915	Hospital, Amnéville	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593916	Hospital, Sarreguemines	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593917	Hospital, Montigny les Metz	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593918	Hospital, Joeuf	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593919	Hospital, Ottomville	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593920	Hospital, Metz	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593921	Hospital, Fameck	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593922, EPI_ISL_593923	Hospital, Maizières les Metz	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593924, EPI_ISL_593925, EPI_ISL_593926, EPI_ISL_593927, EPI_ISL_593928, EPI_ISL_593929, EPI_ISL_593932, EPI_ISL_593933	Labo Analyses Med, Puteaux	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593934	Sentinelles, Chanteloup-En-Brie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593935	Sentinelles, Plessis-Trevise	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_593936	Sentinelles, Fontenelle	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Sylvie Behillil, Fabiana Gambaro, Etienne Simon-Lorière, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_594118	Centro de Investigaciones, Universidad de Especialidades Espíritu Santo	Institute of Microbiology, Universidad San Francisco de Quito	Derly Andrade, Juan Carlos Fernandez, Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Gabriel Morey, Ruben Armas, Jose Pedro Barberán, Fernando Espinoza, Edith Lopez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
EPI_ISL_594185, EPI_ISL_594186, EPI_ISL_594187, EPI_ISL_594188	Department of Pathology, School of Medicine, Imam Khomeini Hospital, Tehran University of Medical Sciences	Genetics Research Center, University of Social Welfare and Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalavand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Azar Hadadi, Alireza Abdollahi, Ali Jafarpour, Azam Ghaziasad, Seyedeh elham Mortazavi, Saber Soltani, Reza Najafipour, Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_596228, EPI_ISL_596233, EPI_ISL_596234	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Anna Ivanova, Kseniya Komissarova, Dmitry Bazhenov, Daria Danilenko
EPI_ISL_596264, EPI_ISL_596265	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Anna Ivanova, Mariia Sergeeva, Kseniya Komissarova, Dmitry Bazhenov, Daria Danilenko
EPI_ISL_596266, EPI_ISL_596267	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Anna Ivanova, Kseniya Komissarova, Dmitry Bazhenov, Daria Danilenko
EPI_ISL_596449	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Kamel K, Mhd-Zawawi Z, Thayan R
EPI_ISL_596451	Department of Pathology, School of Medicine, Imam Khomeini Hospital, Tehran University of Medical Sciences	Genetics Research Center, University of Social Welfare and Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalavand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Azar Hadadi, Alireza Abdollahi, Ali Jafarpour, Azam Ghaziasad, Seyedeh elham Mortazavi, Saber Soltani, Reza Najafipour, Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_596453	Boabi laboratory, Oom, Iran. Department of Virology, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.	Genetics Research Center, University of Social Welfare and Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalavand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Mohammad Kazheni, Seyed Amir Momeni, Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_596454	Infectious Disease and Tropical Medicine Research Center, Resistant Tuberculosis Institute, Zahedan University of Medical Sciences, Zahedan, Iran.	Genetics Research Center, University of Social Welfare and Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalavand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Ebrahim Kord, Seyed Mohammad Hashemi-Shahri, Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_596455	Department of Pathology, School of Medicine, Imam Khomeini Hospital, Tehran University of Medical Sciences	Genetics Research Center, University of Social Welfare and Rehabilitation Sciences	Zohreh Fattahi, Marzieh Mohseni, Khadijeh Jalavand, Azam Ghaziasadi, Seyedeh elham Mortazavi, Ali Jafarpour, Azar Hadadi, Alireza Abdollahi, Ali Jafarpour, Azam Ghaziasad, Seyedeh elham Mortazavi, Saber Soltani, Reza Najafipour, Kimia Kahrizi, Seyed Mohammad Jazayeri, Hossein Najmabadi
EPI_ISL_602304	Istituto Zooprofilattico Sperimentale del Mezzogiorno	U.O. Diagnostica Virologica Dip. Sanità Animale IZSM	Maurizio Viscardi, Lorena Cardillo, e Giovanna Fusco
EPI_ISL_602412, EPI_ISL_602413, EPI_ISL_602414, EPI_ISL_602415, EPI_ISL_602416	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov, Artem Fadeev, Kseniya Komissarova, Anna Ivanova, Dmitry Bazhenov, Daria Danilenko
EPI_ISL_602564	Centre for Dengue Research, Department of Immunology and Molecular Medicine	Centre for Dengue Research	Chandima Jeewandara, Deshni Jayathilaka, Dunika Ariyaratne, Diyanath Ranasinghe, Laksiri Gomes, Ananda Wijewickrama, Malika Karunaratne, Gathsaurie Neelika Malavige
EPI_ISL_602622	AHRI-Signal	KRISP, KZN Research Innovation and Sequencing Platform	Gazy I, Sigla, Karim F, Cele S, Giandhari J, Pillay S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_602624, EPI_ISL_602625, EPI_ISL_602626, EPI_ISL_602627, EPI_ISL_602628, EPI_ISL_602629, EPI_ISL_602630	AHRI-Signal	KRISP, KZN Research Innovation and Sequencing Platform	Gazy I, Sigla, Karim F, Cele S, Giandhari J, Pillay S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_602632, EPI_ISL_602633, EPI_ISL_602634, EPI_ISL_602635, EPI_ISL_602636, EPI_ISL_602637, EPI_ISL_602639, EPI_ISL_602640, EPI_ISL_602641, EPI_ISL_602642, EPI_ISL_602644, EPI_ISL_602645, EPI_ISL_602646, EPI_ISL_602647, EPI_ISL_602648, EPI_ISL_602649, EPI_ISL_602650, EPI_ISL_602651, EPI_ISL_602652, EPI_ISL_602653, EPI_ISL_602654, EPI_ISL_602655, EPI_ISL_602656, EPI_ISL_602657, EPI_ISL_602658, EPI_ISL_602659, EPI_ISL_602660, EPI_ISL_602661, EPI_ISL_602662, EPI_ISL_602663, EPI_ISL_602664, EPI_ISL_602665, EPI_ISL_602666, EPI_ISL_602667, EPI_ISL_602668, EPI_ISL_602670, EPI_ISL_602671, EPI_ISL_602672, EPI_ISL_602673, EPI_ISL_602674, EPI_ISL_602675, EPI_ISL_602676, EPI_ISL_602677, EPI_ISL_602678, EPI_ISL_602679, EPI_ISL_602680, EPI_ISL_602681			



EPI_ISL_605785, EPI_ISL_605786, EPI_ISL_605787, EPI_ISL_605788, EPI_ISL_605790	NHLHS-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Mdalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T	
see above	Clinical Virology Laboratory, Institute of Liver and Biliary Sciences	ILBS - IGB	Ekta Gupta, Sheetalnath Rooge, Abhishek Padhi, Reshu Agarwal, Jaswinder Singh Maras, Shridhar Sivasubbu, Vinod Scaria, Shvetank Sharma	
EPI_ISL_609994 EPI_ISL_609995 EPI_ISL_609996 EPI_ISL_609997	INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS	INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS INMI Lazzaro Spallanzani IRCCS	C.E.M Gruber, F Messina, M Rueca, B Bartolini, E Giombini, MR Capobianchi, A Di Caro E Giombini, C.E.M Gruber, M Rueca, B Bartolini, F Messina, A Di Caro, MR Capobianchi F Messina, M Rueca, B Bartolini, C.E.M Gruber, E Giombini, MR Capobianchi, A Di Caro M Rueca, B Bartolini, C.E.M Gruber, F Messina, E Giombini, A Di Caro, MR Capobianchi	
EPI_ISL_610152, EPI_ISL_610153, EPI_ISL_610154	Singapore General Hospital	Department of Microbiology	Nurdyana Abdul Rahman, Kun Lee Lim, Chenhao Li, Sui Sin Goh, Kenneth Xin Long Chan, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Niranjan Nagarajan, Karrie Ko	
EPI_ISL_610161	RSUD Dr. Tjitjwardojo	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Taiping World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM, Balai Besar Teknik Kesehatan Lingkungan dan Pengendalian Penyakit (BTKLPP) Yogyakarta	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Irene, Indaryati, Havid Setyawan, Wuryanto, Kemala Athollah, Desyifa Mursalin	
EPI_ISL_610162	RSUD Dr. Tjitjwardojo	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Taiping World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM, Balai Besar Teknik Kesehatan Lingkungan dan Pengendalian Penyakit (BTKLPP) Yogyakarta	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahantingsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Irene, Indaryati, Havid Setyawan, Wuryanto, Susan Simanjaya, Alvin Santos Kalim	
EPI_ISL_610227, EPI_ISL_610228, EPI_ISL_610229, EPI_ISL_610230, EPI_ISL_610231, EPI_ISL_610232, EPI_ISL_610233, EPI_ISL_610234, EPI_ISL_610235, EPI_ISL_610236	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Samoilov AE, Kapte洛va VV, Valdokhina AV, Bulanenko VP, Speranskaya AS, Tivanova EV, Shipulina OY, Akimkin VG	
EPI_ISL_610237, EPI_ISL_610238	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Samoilov AE, Kapte洛va VV, Bukharina AY, Speranskaya AS, Tivanova EV, Shipulina OY, Akimkin VG	
EPI_ISL_610239, EPI_ISL_610240, EPI_ISL_610241, EPI_ISL_610242, EPI_ISL_610243, EPI_ISL_610244	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Samoilov AE, Kapte洛va VV, Valdokhina AV, Bulanenko VP, Speranskaya AS, Tivanova EV, Shipulina OY, Akimkin VG	
EPI_ISL_610249	Virologisches Institut, Universitätsklinikum Erlangen	Virologisches Institut, Universitätsklinikum Erlangen	Armin Enser, Klaus Korn, Klaus Überla	
EPI_ISL_613419, EPI_ISL_613420, EPI_ISL_613421, EPI_ISL_613422, EPI_ISL_613423, EPI_ISL_613424, EPI_ISL_613425, EPI_ISL_613426, EPI_ISL_613429, EPI_ISL_613431, EPI_ISL_613432, EPI_ISL_613433, EPI_ISL_613434, EPI_ISL_613435, EPI_ISL_613436, EPI_ISL_613437, EPI_ISL_613439, EPI_ISL_613440, EPI_ISL_613445, EPI_ISL_613446	Institut Pasteur de la Guadeloupe	Institut Pasteur de la Guadeloupe	Samoilov AE, Kapte洛va VV, Bukharina AY, Speranskaya AS, Tivanova EV, Shipulina OY, Akimkin VG	
see above	Institut Pasteur de la Guadeloupe	Institut Pasteur de la Guadeloupe	Mariон Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, St��phanie Guyomard, S��bastien Breurec, Radjin Steinrover, Cherina Fleming, Antoine Talarmi	
EPI_ISL_613447, EPI_ISL_613448, EPI_ISL_613449, EPI_ISL_613450, EPI_ISL_613451, EPI_ISL_613452, EPI_ISL_613455, EPI_ISL_613456	Institut Pasteur de la Guadeloupe	Institut Pasteur de la Guadeloupe	Mariон Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, St��phanie Guyomard, S��bastien Breurec, Radjin Steinrover, Cherina Fleming, Antoine Talarmi	
EPI_ISL_613457	QUARANTINE CAMP	Hong Kong Department of Health	Alan K.L. Tsang, Peter C.W. Yip, Edman T.K. Lam, Rick Jason C.W. Chan, Dominic N.C. Tsang	
EPI_ISL_613545, EPI_ISL_613546, EPI_ISL_613547, EPI_ISL_613548, EPI_ISL_613549, EPI_ISL_613550, EPI_ISL_613551, EPI_ISL_613552, EPI_ISL_613553, EPI_ISL_613554, EPI_ISL_613555, EPI_ISL_613556, EPI_ISL_613557, EPI_ISL_613558, EPI_ISL_613559	see above	CHRU Pontchaillou - Laboratoire de Virologie 2, rue Henri Le Guilloux	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Mariон Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Gis��le Lagathu
EPI_ISL_613560	Laboratorio Biologia Molecolare Sars Cov - UOC Laboratorio Analisi - Servizio Medica di Laboratorio, Ospedale "San Francesco" - ATS-ASSL Nuoro Via Mannironi 1, 08100 Nuoro	Laboratorio specialistico UOC Ematologia - Ospedale "San Francesco" - ATS-ASSL Nuoro	Piras Giovanna, Fancello Tatiana, Asproni Rosanna, Fiamma Maura, Monne Maria Itria, Toja Alessandro, Sanna Filomena, Floris Anna Rita, Sulis Vincenzo, Palmas Angelo Domenico, Casu Gavino, Lo Maglio Iana, Mameli Giuseppe	
EPI_ISL_613563, EPI_ISL_613564, EPI_ISL_613707, EPI_ISL_613708	Laboratory of Molecular Biology, Blood Center of Ribeir��o Preto	Laboratory of Molecular Biology, Blood Center of Ribeir��o Preto, Faculty of Medicine of Ribeir��o Preto, University of S��o Paulo	Svetoslav N Slavov, Marta Giovanetti, Wagner Fonseca, Elaine V Santos, Evandra S Rodrigues, Talita Adelino, Joilson Xavier, Glauco de Carvalho Pereira, Aparecida Y Yamamoto, Diego Villa Cl��, Rodrigo T Calado; Dimas T Covas, Luiz Cj Alcantara, Simone Kashima	
EPI_ISL_613709, EPI_ISL_613951	Laboratory of Molecular Biology, Blood Center of Ribeir��o Preto, Faculty of Medicine of Ribeir��o Preto, University of S��o Paulo	Laboratory of Molecular Biology, Blood Center of Ribeir��o Preto, Faculty of Medicine of Ribeir��o Preto, University of S��o Paulo	Svetoslav N Slavov, Marta Giovanetti, Wagner Fonseca, Elaine V Santos, Evandra S Rodrigues, Talita Adelino, Joilson Xavier, Glauco de Carvalho Pereira, Aparecida Y Yamamoto, Diego Villa Cl��, Rodrigo T Calado; Dimas T Covas, Luiz Cj Alcantara, Simone Kashima	
EPI_ISL_613955	Laboratorio Biologia Molecolare Sars Cov - UOC Laboratorio Analisi - Servizio Medica di Laboratorio, Ospedale "San Francesco" - ATS-ASSL Nuoro	Laboratorio specialistico UOC Ematologia - Ospedale "San Francesco" - ATS-ASSL Nuoro	Piras Giovanna, Fancello Tatiana, Asproni Rosanna, Fiamma Maura, Monne Maria Itria, Toja Alessandro, Sanna Filomena, Floris Anna Rita, Sulis Vincenzo, Palmas Angelo Domenico, Casu Gavino, Lo Maglio Iana, Mameli Giuseppe	
EPI_ISL_614265, EPI_ISL_614266, EPI_ISL_614267, EPI_ISL_614268, EPI_ISL_614269, EPI_ISL_614270, EPI_ISL_614271, EPI_ISL_614272, EPI_ISL_614273, EPI_ISL_614274, EPI_ISL_614275, EPI_ISL_614276, EPI_ISL_614277, EPI_ISL_614278, EPI_ISL_614279, EPI_ISL_614280	see above	Eurofins	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Marion Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_614281	CHRU Pontchaillou - Laboratoire de Virologie 2, rue Henri Le Guilloux	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Marion Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf, Gis��le Lagathu	
EPI_ISL_614282, EPI_ISL_614283, EPI_ISL_614284, EPI_ISL_614285, EPI_ISL_614286, EPI_ISL_614287, EPI_ISL_614288, EPI_ISL_614289, EPI_ISL_614290, EPI_ISL_614291, EPI_ISL_614292, EPI_ISL_614293	see above	General practitioner	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Marion Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf
EPI_ISL_614298, EPI_ISL_614304, EPI_ISL_614307, EPI_ISL_614308, EPI_ISL_614310, EPI_ISL_614311, EPI_ISL_614312	Faroese National Reference Laboratory for Fish and Animal Diseases	Faroese National Reference Laboratory for Fish and Animal Diseases	Marion Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_614396, EPI_ISL_614397, EPI_ISL_614398, EPI_ISL_614889	Laboratorio Biologia Molecolare Sars Cov2 - UOC Laboratorio Analisi - Servizio Medica di Laboratorio, Ospedale "San Francesco" - ATS-ASSL Nuoro	Laboratorio specialistico UOC Ematologia - Ospedale "San Francesco" - ATS-ASSL Nuoro	Piras Giovanna, Fancello Tatiana, Asproni Rosanna, Fiamma Maura, Monne Maria Itria, Toja Alessandro, Sanna Filomena, Floris Anna Rita, Sulis Vincenzo, Palmas Angelo Domenico, Casu Gavino, Lo Maglio Iana, Mameli Giuseppe	
EPI_ISL_623096, EPI_ISL_623097	General practitioner	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Marion Barbet, Sylvie Behillii, M��line Bizard, Angela Brisebarre, Camille Capel, Etienne Simon-Lori��re, Vincent Enouf, Maud Vanpeene, Sylvie van der Werf	
EPI_ISL_623108, EPI_ISL_623110, EPI_ISL_623112, EPI_ISL_623114, EPI_ISL_623116, EPI_ISL_623118, EPI_ISL_623119, EPI_ISL_623120, EPI_ISL_623124, EPI_ISL_623126, EPI_ISL_623129, EPI_ISL_623130, EPI_ISL_623132, EPI_ISL_623134, EPI_ISL_623136, EPI_ISL_623138, EPI_ISL_623140, EPI_ISL_623141, EPI_ISL_623144, EPI_ISL_623145, EPI_ISL_623146, EPI_ISL_623147, EPI_ISL_623148, EPI_ISL_623149, EPI_ISL_623152, EPI_ISL_623154, EPI_ISL_623157, EPI_ISL_623158, EPI_ISL_623160, EPI_ISL_623161, EPI_ISL_623162, EPI_ISL_623164, EPI_ISL_623165, EPI_ISL_623166, EPI_ISL_623168	see above	Laboratorio de Virologia Molecular/ UFRJ	Bioinformatics Laboratory / LNCC	Carolina M Voloch, Ronaldo S Francisco Jr, Luiz G de Almeida, Otavio J. Brustolini, Cynthia C Cardoso, Alexandra L Gerber, Ana Paula de C Guimar��es, Diana Mariani, Covid19-UFRJ Workgroup, Luis Cristov��o P��tio, Renato S Aguilar, Terezinha M P Castilheiros, Orlando C Ferreira, Amilcar Tanuri, Ana Tereza R de Vasconcelos
EPI_ISL_624546	Virology Unit, Institut Pasteur de Madagascar	Virology Unit, Institut Pasteur de Madagascar	Christian Ranavoson, Cara Brook, Norosoa Razanajatovo, Vida Ahyoung, Tsiry Randriambololana, Michelle Tan, Vololoaina Raharinony, Heliosa Razafimananjato, Cristina M. Tato, Joseph L. DeRisi, Soa Andriamananjara, Jean-Michel Heraud, Philippe Dussart	
EPI_ISL_626570, EPI_ISL_626571, EPI_ISL_626572, EPI_ISL_626573, EPI_ISL_626575, EPI_ISL_626577, EPI_ISL_626578, EPI_ISL_626579, EPI_ISL_626580, EPI_ISL_626581, EPI_ISL_626582, EPI_ISL_626585, EPI_ISL_626586, EPI_ISL_626587, EPI_ISL_626588, EPI_ISL_626589, EPI_ISL_626590, EPI_ISL_626592, EPI_ISL_626593, EPI_ISL_626594, EPI_ISL_626595, EPI_ISL_626596, EPI_ISL_626597, EPI_ISL_626598, EPI_ISL_626599, EPI_ISL_626600, EPI_ISL_626601, EPI_ISL_626603, EPI_ISL_626604, EPI_ISL_626605, EPI_ISL_626606, EPI_ISL_626608, EPI_ISL_626609, EPI_ISL_626612, EPI_ISL_626613, EPI_ISL_626614, EPI_ISL_626615, EPI_ISL_626616, EPI_ISL_626617, EPI_ISL_626618, EPI_ISL_626620, EPI_ISL_626621, EPI_ISL_626622, EPI_ISL_626623, EPI_ISL_626624, EPI_ISL_626625	see above	The National Institute of Public Health	Nagy A.Jirincova, H.Novakova, L.Trnka, D.Vecerova	
EPI_ISL_631504	Wyckoff Heights Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631510, EPI_ISL_631511	New York Presbyterian/ Weill Cornell Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631513	Montefiore Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631538	Maimonides Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631542	New York Presbyterian Lower Manhattan	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631546	Maimonides Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631554	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	
EPI_ISL_631556	NYC HH Jacobi Medical Center	New York City Public Health Laboratory	Jade Wang, et al.	

EPI_ISL_631558	NYU Langone Health	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631561	Montefiore Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631562	Brookdale University Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631568	New York Presbyterian Queens	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631570	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631573	Brookdale University Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631574	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631577, EPI_ISL_631584, EPI_ISL_631587	NYC HH Lincoln Medical And Mental Health Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631591	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631593	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631594	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631595	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631596	James J. Peters VA Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631597	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631598	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631602	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631603	NYC HH Lincoln Medical And Mental Health Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631605	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631606	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631607	NYC HH Lincoln Medical And Mental Health Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631610, EPI_ISL_631613, EPI_ISL_631615	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631616	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631617, EPI_ISL_631618, EPI_ISL_631619	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631624, EPI_ISL_631625, EPI_ISL_631628, EPI_ISL_631629, EPI_ISL_631633	Richmond University Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631637	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631686	NYC HH Lincoln Medical And Mental Health Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631687	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631689, EPI_ISL_631690	Lincoln Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631694, EPI_ISL_631695	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631697, EPI_ISL_631698	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631701	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631703, EPI_ISL_631704, EPI_ISL_631705, EPI_ISL_631706	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631710	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631711, EPI_ISL_631712, EPI_ISL_631716, EPI_ISL_631719, EPI_ISL_631720	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631724	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631726, EPI_ISL_631728	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631732	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631733, EPI_ISL_631735, EPI_ISL_631736, EPI_ISL_631740	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631754	NYC HH Lincoln Medical And Mental Health Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631755, EPI_ISL_631757	Richmond University Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631758, EPI_ISL_631759, EPI_ISL_631760, EPI_ISL_631761, EPI_ISL_631762	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631767, EPI_ISL_631768	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631769, EPI_ISL_631770	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631772	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631773, EPI_ISL_631774	Flushing Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631775, EPI_ISL_631776, EPI_ISL_631777	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631778, EPI_ISL_631781, EPI_ISL_631782	St Barnabas Hospital	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631797	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631801	Richmond University Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631803, EPI_ISL_631806	Brookdale University Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631808, EPI_ISL_631811	Wyckoff Heights Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631812, EPI_ISL_631813	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631815	Richmond University Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631829	Brookdale University Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631831	VA NY Harbor Healthcare System	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631835, EPI_ISL_631836	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631840, EPI_ISL_631841, EPI_ISL_631845	OCME Office Of Chief Medical Examiner	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_631866, EPI_ISL_631867	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang, et al.
EPI_ISL_632310	1-Laboratory of Microbiology, National Reference Lab, Charles Nicolle Hospital; 2-University of Tunis El Manar, Faculty of Medicine of Tunis, LR99E509, Tunis, Tunisia	1-Clinical and Experimental Pharmacology Lab, LR16SP02, National Center of Pharmacovigilance, University of Tunis El Manar, Tunis, Tunisia. 2-Neurodegenerative diseases and psychiatric troubles, LR18SP03, Razi Hospital, University of Tunis El Manar, Tunis, Tunisia. 3- Ministry of Health, National Observatory of New and Emerging Diseases, 1006, Tunis, Tunisia	Ilhem Boutiba-Ben Boubaker, Sameh Trabelsi, Nissaf Ben Alaya, Maher Kharrat, Alia Ben Kahla, Jallia Ben Khalil, Salma Abid, Sana Ferjani, Mouna Ben Sassi, Mouna Safer, Imen Mkada, Imen Kacem, Gaies Emna, Soumaya Rammeh, Riadh Daghfous, Riadh Gouider.
EPI_ISL_632312	NU-sjukvården	Clinical microbiology, Sahlgrenska University Hospital	Johan Ringlander, Josef Olausson, Hedvig Engström Jakobsson, Magnus Lindh
EPI_ISL_632313	NU-sjukvården	Clinical Microbiology, Sahlgrenska University Hospital,	Johan Ringlander, Josef Olausson, Hedvig Engström Jakobsson, Magnus Lindh
EPI_ISL_632934	Department of Acute Infectious Diseases Control and Prevention,Yunnan Provincial Center for Disease Control and Prevention	Department of Acute Infectious Diseases Control and Prevention,Yunnan Provincial Center for Disease Control and Prevention	Meiling Zhang, Jienan Zhou, Senquan Jia, Xiaonan Zhao, Xiaoqing Fu
EPI_ISL_632936	Puskesmas Mlati 1 Sieman	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM;	Gunadi, Hendra Wibawa, Marcellus, Mohamad S. Hakim, Edwin W. Daniwijaya, Ludhang P. Rizki, Endah Supriyati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Dwi AA Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Ika Trisnawati, Sumardi, Eko Budiono, Bangbang Sigit Riyanto, Heni Retnowulan, Munawar Gani, Satria Maulana, Nur Rahmi

	Laboratorium Diagnostik Yayasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM; RSUP Dr. Sardjito	Ananda, Riat El Khair, Yunika Puspadiwari, Osman Sianipar, Umi Solekhah Intansari, Elizabeth Henny Herningtiyas, Ira Puspitawati, Nur Imma Fatimah Harahap, Ernawati, Untung Wirawan , William Widitjarno
EPI_ISL_632937	RSUD Saptosari Gunung Kidul	Genetics Working Group (Pojka Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Waters Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM; Balai Besar Teknik Kesehatan Lingkungan dan Pengendalian Penyakit (BTKLPP) Yogyakarta
EPI_ISL_634977	1-Laboratory of Microbiology, National Reference Lab, Charles Nicolle Hospital; 2-University of Tunis ElManar, Faculty of Medicine of Tunis, LR99ES09, Tunis, Tunisia	1-Clinical and Experimental Pharmacology Lab, LR16SP02, National Center of Pharmacovigilance, University of Tunis El Manar, Tunis, Tunisia. 2-Neurodegenerative diseases and psychiatric troubles, LR18SP03, Razi Hospital, University of Tunis El Manar, Tunis, Tunisia. 3- Ministry of Health, National Observatory of New and Emerging Diseases, 1006, Tunisia
EPI_ISL_634978, EPI_ISL_634979, EPI_ISL_634981, EPI_ISL_634983, EPI_ISL_634984, EPI_ISL_634985, EPI_ISL_634986, EPI_ISL_634987, EPI_ISL_634989, EPI_ISL_634990, EPI_ISL_634993, EPI_ISL_634994, EPI_ISL_634995, EPI_ISL_634996, EPI_ISL_634997, EPI_ISL_634998, EPI_ISL_635000, EPI_ISL_635001, EPI_ISL_635002, EPI_ISL_635003, EPI_ISL_635004, EPI_ISL_635005, EPI_ISL_635006, EPI_ISL_635007, EPI_ISL_635008, EPI_ISL_635009, EPI_ISL_635010, EPI_ISL_635011, EPI_ISL_635012, EPI_ISL_635013, EPI_ISL_635014, EPI_ISL_635015, EPI_ISL_635016, EPI_ISL_635017, EPI_ISL_635018, EPI_ISL_635019, EPI_ISL_635021, EPI_ISL_635022, EPI_ISL_635024, EPI_ISL_635026, EPI_ISL_635027, EPI_ISL_635029, EPI_ISL_635030, EPI_ISL_635031, EPI_ISL_635032, EPI_ISL_635033, EPI_ISL_635034, EPI_ISL_635035, EPI_ISL_635036, EPI_ISL_635037, EPI_ISL_635038, EPI_ISL_635039, EPI_ISL_635043, EPI_ISL_635045, EPI_ISL_635046, EPI_ISL_635047, EPI_ISL_635048, EPI_ISL_635049, EPI_ISL_635050, EPI_ISL_635051, EPI_ISL_635052, EPI_ISL_635053, EPI_ISL_635054, EPI_ISL_635055, EPI_ISL_635056, EPI_ISL_635057, EPI_ISL_635058		
see above	National Health Laboratory Service - Inksosi Albert Luthuli Central Hospital (NHLHS-IALCH)	KRISP, KZN Research Innovation and Sequencing Platform
EPI_ISL_635061, EPI_ISL_635062	1-Laboratory of Microbiology, National Reference Lab, Charles Nicolle Hospital; 2-University of Tunis ElManar, Faculty of Medicine of Tunis, LR99ES09, Tunis, Tunisia	1-Clinical and Experimental Pharmacology Lab, LR16SP02, National Center of Pharmacovigilance, University of Tunis El Manar, Tunis, Tunisia. 2-Neurodegenerative diseases and psychiatric troubles, LR18SP03, Razi Hospital, University of Tunis El Manar, Tunis, Tunisia. 3- Ministry of Health, National Observatory of New and Emerging Diseases, 1006, Tunisia
EPI_ISL_636476, EPI_ISL_636477, EPI_ISL_636485	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD
EPI_ISL_636737, EPI_ISL_636834, EPI_ISL_636835, EPI_ISL_636837	Laboratório de Imunofarmacologia - Instituto Oswaldo Cruz	Laboratório de Imunofarmacologia - Instituto Oswaldo Cruz
EPI_ISL_636964	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)
EPI_ISL_636965	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)
EPI_ISL_636966, EPI_ISL_636967	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)
EPI_ISL_636969, EPI_ISL_636970, EPI_ISL_636971	Etlik Veterinary Control Central Research Institute	Etlik Veterinary Control Central Research Institute
EPI_ISL_636972	Pathogen Genomics Lab King Abdullah University of Science and Technology (KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology (KAUST)
EPI_ISL_636973	Public Health Lab	Public Health Lab
EPI_ISL_636977	HP Pemba	KRISP, KZN Research Innovation and Sequencing Platform
EPI_ISL_636980	CS Xai Xai	KRISP, KZN Research Innovation and Sequencing Platform
EPI_ISL_637108, EPI_ISL_637109	Laboratorio Biologia Molecolare Sars Cov2 - UOC Laboratorio Analisi - Servizio Medicina di Laboratorio, Ospedale "San Francesco" - ATS-ASSL Nuoro	Laboratorio specialistico UOC Ematologia - Ospedale "San Francesco" - ATS-ASSL Nuoro
		Ilhem Boutiba-Ben Boubaker, Sameh Trabelsi, Nissaf Ben Alaya, Maher Kharrat, Alia Ben Kahla, Jalila Ben Khelil, Salma Abid, Sana Ferjani, Mouna Ben Sassi, Mouna Safer, Imen Mkada, Ilhem Boutiba-Ben Boubaker, Sameh Trabelsi, Nissaf Ben Alaya, Maher Kharrat, Alia Ben Kahla, Jalila Ben Khelil, Salma Abid, Sana Ferjani, Mouna Ben Sassi, Mouna Safer, Imen Mkada, Imen Kacem, Gaies Emma, Soumaya Rammeh, Riadh Daghfous, Riadh Gouider.
		Glandhari J, Pillay S, Lessells R, Mdalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
		Antonin Bal, Gregory Destras, Gwendolyne Burfin, Hadrien Régue, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset
		Souza,T.M., Fintelman-Rodrigues,N., De Paula,A.D., Saraiva,F.B., Ferreira,M.A. and Sacramento,C.Q.
		Rahul P Salunke, Sharif Hala, Raece Naeem, Sara Mfarrej, Amit Kumar Subudhi, Amanda Ooi, Luke Esau, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmood, Anwar Hashem, Naif Almontashiri, Arnab Pain
		Raece Naeem, Rahul P Salunke, Sharif Hala, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmood, Anwar Hashem, Naif Almontashiri, Arnab Pain
		Fathia Ben Rached, Raece Naeem, Sharif Hala, Fadwa Alofi, Rahul P Salunke, Sara Mfarrej, Amit Kumar Subudhi, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmood, Anwar Hashem, Naif Almontashiri, Arnab Pain
		Sabri Hacioglu, Ahu Pakdemirli, Dilek Dulger, Erdem Danyer, Ummu Sena Sari, Cevdet Yarali, Ozcan Yildirim
		Afrah Alsomali, Fathia Ben Rached, Raece Naeem, Sharif Hala,Rahul P Salunke, Amanda Ooi, Luke Esau, Sara Mfarrej, Amit Kumar Subudhi, Fadwa Alofi, Asim Khogeer, Kahled Alighiami, Anwar Hashem, Naif Almontashiri, Arnab Pain
		Alwasti, H
		Ismael N, Giandhari J, Pillay S, Tegally H, Wilkinson E, de Oliveira T, Nadia Siteo, Paulo Arnaldo, Nedio Mabunda
		Ismael N, Giandhari J, Pillay S, Tegally H, Wilkinson E, de Oliveira T, Nadia Siteo, Paulo Arnaldo, Nedio Mabunda
		Piras Giovanna, Fancello Tatiana, Asproni Rosanna, Flaminia Maura, Monne Maria Ittia, Toja Alessandro, Sanna Filomena, Floris Anna Rita, Luis Vincenzo, Palmas Angelo Domenico, Casu Gavino, Lo Maglio Iana, Mameli Giuseppe

GISAID Accession Numbers:

437930;447094;441372;429314;447055;426319;447200;447189;426030;426031;426034;426035;426036;426037;426039;426040;426041;426043;426045;426046;426047;426048;426050;425224;426298;426300;426303;426304;426306;426309;426310;426311;426312;426313;445365;427579;427546;424371;449912;428745;438114;437965;436874;448210;449203;449226;449204;418119;416508;447297;421346;421543;421544;421545;441666;428398;428936;421306;421314;421299;420053;429525;436822;427569;427568;427618;428693;427574;427551;427617;427559;427608;427540;427571;427575;427550;427537;427538;427580;427573;427584;427597;427532;427549;427604;417857;427596;427526;417620;417873;418224;444589;420906;438597;450106;450114;450124;450130;450133;450142;450155;450082;450086;450089;450095;450032;450036;422533;422529;422489;421634;421596;421403;421411;421417;421402;421428;421385;421395;427561;447221;416452;429794;429722;443284;429345;433582;443243;448502;435516;435456;427521;442741;418974;434821;418200;437771;427476;449793;449792;449794;445423;422164;432297;422081;432296;448903;420221;442350;447190;444608;422655;422656;422696;444259;444096;449639;418690;434661;434664;432383;432300;445950;421005;432305;445720;446060;432233;446435;445946;422124;432275;445606;445597;432197;432219;445602;422042;432309;445601;445833;432330;423620;446934;442749;440733;444238;441049;444087;444089;444093;444194;434641;434675;434671;434658;434660;425366;434665;434652;445232;445227;429127;423086;422035;445236;434663;434668;430857;430859;445230;445239;445228;445240;445237;434670;434659;429126;429161;429162;434642;445233;434669;445225;423563;437014;428148;444134;439405;440579;440600;442998;442898;443394;449636;427154;444491;449627;444239;444195;444228;444265;444251;424402;424598;424585;437654;443692;424623;423827;422777;419428;438498;444920;437667;433936;444487;429558;442793;440542;444488;442939;449708;449683;444222;444217;444205;418195;442285;441549;442213;444489;442143;418076;430663;425519;425525;443100;441606;438446;438459;426746;439555;423596;420752;428400;430355;430407;436467;428873;437971;437955;436831;419708;435490;435532;427548;437957;450049;449846;430147;444533;429569;429464;428390;428373;435021;422578;419606;434331;421587;444765;420072;430350;427628;447417;447313;447393;435377;435375;435376;436915;430023;430034;430029;430036;430027;430026;438608;428380;428375;425259;439889;430908;435721;422500;420097;426326;426327;435008;435009;444612;430363;429199;450179;424973;426539;418201;422490;421731;423117;434235;429033;429031;418193;420571;422652;434992;427286;424960;434220;422506;450058;422553;438029;438082;429440;415487;429030;418351;421742;419584;418803;418807;450068;450020;434942;434903;444570;434906;427614;438144;438169;434228;420143;449948;427589;449951;449878;449849;438192;430115;434243;427213;417677;417693;417853;449300;424491;436485;449999;450002;427542;436469;436471;436474;419600;436041;424878;426434;429982;419258;420022;420021;420629;419257;429981;426455;420020;420630;420019;447698;428350;447722;428793;430374;435404;437252;437007;429301;429306;429309;428791;430428;437628;430369;421386;428999;424970;437791;430431;421741;438704;436818;426826;436814;447167;447197;447310;447289;437219;450170;421412;450013;421394;437380;437368;424367;438036;438042;438035;438043;419175;427223;447291;426084;423384;433488;438669;438554;433966;444374;434041;438568;433740;425263;433914;433672;433686;433761;444376;444398;444339;438592;438677;438716;433923;429733;430434;429480;429581;429482;437004;436991;430358;444790;427475;444775;420018;426999;445372;445284;442085;437594;433958;443080;437599;415481;444766;450075;450076;420293;450087;450088;430391;444730;444701;421577;430393;416748;435522;429656;422609;423187;422086;432278;430498;433353;432258;420745;444437;439464;436830;426819;435508;430388;444662;417938;444791;429035;444716;444748;444769;444729;424937;444750;424353;440386;427282;437891;435119;420081;426617;428877;422421;430373;428795;444688;427636;427494;427518;444703;430414;424988;419941;438153;429627;450132;450014;444666;424408;444635;435481;421590;422508;444721;421719;444722;444691;430368;421585;427491;450165;427641;419590;437951;434674;435063;420579;428892;428902;426620;426622;426623;436

108;448673;424671;448723;435123;435129;435130;435286;427485;416830;428871  
;428875;427638;428905;429118;444645;430333;430334;430345;430412;447724;42  
1279;424950;447705;447708;447671;447673;447675;447663;428990;444070;44405  
7;429002;429014;444073;444074;437255;416501;436893;435548;444781;428912;4  
22373;446024;422024;444763;435051;435052;429511;426632;422419;444777;4446  
69;426554;426529;450093;418915;444578;444609;436894;436895;424944;421762;  
444710;430356;445115;428363;430417;427238;435526;428760;435495;427474;428  
785;428770;444752;444723;444629;444685;444686;444658;444665;444668;430337  
;430346;430347;430348;430323;430328;430329;430418;424932;424938;424959;42  
1732;421579;421586;428996;435536;435549;427502;420056;421509;416496;42004  
9;427539;416509;416512;416513;445292;436497;419839;445114;427120;419978;4  
37428;437429;419902;419972;444704;444677;443302;437554;445116;418963;4189  
64;445113;437588;437591;437592;445094;437574;437598;437555;435521;424370;  
447308;447288;447290;447286;447283;447282;447306;421396;444621;430389;444  
627;430426;421588;435504;444724;427018;430326;428403;429026;450111;428396  
;435704;430379;419909;444711;444678;427635;428797;435518;444713;430364;42  
1722;444657;447714;428993;447726;427492;428772;444642;430416;428904;42750  
9;427481;430342;444616;430399;435534;430415;427489;444640;418254;430402;4  
43285;418968;437645;418228;426619;447674;424954;430400;429018;417331;4346  
03;434601;434602;434604;428740;422496;450112;450128;450145;450157;422542;  
422488;421608;421416;421423;422499;450018;450138;421424;447338;450118;450  
046;450065;422525;450169;422502;421628;422554;450011;422535;428393;424934  
;418976;447429;447365;444693;421717;418199;435722;430324;431083;431096;43  
5535;424964;427503;421704;430919;430419;444755;435503;430961;426055;42170  
6;447386;447438;447351;447424;435702;447343;447444;431084;435703;428395;4  
28397;447401;450135;447434;447422;431085;428392;447387;447406;447420;4474  
52;428387;442595;421397;450074;421375;421434;430798;427395;444687;450152;  
444776;424936;430404;420577;420590;435501;435547;428778;445182;444764;435  
525;435515;421584;435494;424946;435537;444623;424935;444636;421729;427637  
;444624;421725;421727;444664;418358;418359;444758;428750;430406;427488;43  
0409;420307;436549;435523;435480;424962;421376;427504;427513;430325;43037  
5;420300;428746;428399;444646;447263;447312;447264;444695;435500;428401;4  
35479;444732;427511;444705;430381;419700;436048;436059;427498;421632;4274  
82;428405;430816;444683;424949;426621;428792;444071;427480;436077;427553;  
421422;421388;421389;427514;427629;420297;418973;420581;430382;428800;421  
597;450053;421421;422512;434549;435519;430420;421583;426618;424953;436078  
;424951;421598;421709;444772;428761;421410;426821;422527;422552;444717;42  
4965;447381;421581;430370;444619;428768;444694;430351;447224;450030;45005  
0;422503;422510;427585;427588;427631;424943;430810;447348;447340;447349;4  
47402;421366;450154;421413;421355;426293;426308;426314;436493;427586;4275  
70;427610;427556;426655;417420;436060;436066;436074;436071;444648;430367;  
424958;424956;444628;444634;444759;444749;424948;430372;424942;428766;444  
780;444660;426656;444651;444675;444734;430354;444744;435489;448042;422980  
;417499;417476;438551;444362;421688;428296;444550;429051;444684;418918;44  
8357;430387;444706;427512;424195;437872;450240;422509;422531;421631;42160  
4;450166;449102;417937;428250;428369;428773;421937;444757;428998;435400;4  
36899;428752;428391;435483;450164;450162;428783;430362;427515;430365;4364  
72;436480;438155;427602;437117;426816;421620;447809;447810;444587;450060;  
447416;427578;422516;429449;427616;427530;426511;429445;447279;434368;447  
426;444753;437586;435530;445111;447172;436843;447178;447101;447115;438229  
;426032;428688;429707;447064;447104;436808;447059;436864;447220;447068;44  
7113;437518;437841;419702;420573;445119;421675;429129;421728;436079;42759  
2;427607;426128;444737;423382;419665;444715;423041;447017;420183;425137;4  
44700;430429;444644;430330;436481;417516;427487;428991;427479;444725;4303  
80;426299;450168;421432;430967;427185;427160;426809;426940;426799;427006;  
430573;447436;441659;447207;418400;428787;443209;450173;445150;425897;427  
132;419982;436501;436979;450070;421420;429642;437870;427165;428924;429512  
;444888;429590;437634;437677;429510;429329;436131;426929;417874;430607;41

9585;430616;428799;437365;430427;437377;437384;437376;437371;436898;43689  
2;436896;444702;444794;427116;430528;430615;421715;418985;429181;427627;4  
27109;427155;427011;426736;427057;430600;442095;441411;426866;426872;4269  
94;430482;426972;427164;437915;427079;438150;417875;419880;419952;419954;  
426690;430686;430552;450042;428374;436476;444771;426625;444671;419742;419  
778;419865;418197;447435;447342;447418;436631;430091;428316;424260;430639  
;447410;434587;447344;447445;447355;447404;428377;420096;419525;450084;45  
0062;422514;421360;435720;447377;427273;421371;419872;421589;427533;42753  
4;427535;427312;430377;426875;435401;436897;426160;422461;426161;429846;4  
29847;429848;422462;429845;435394;435397;435398;435399;426561;426562;4265  
63;426565;426566;426567;422528;427581;427563;436824;427529;443198;437513;  
424945;426092;425149;421332;421287;450143;430882;425150;425159;416642;423  
011;421302;421311;422994;450079;450080;435350;416491;416492;421354;447780  
;435700;445097;423020;424170;418194;429011;445180;437560;429023;430031;45  
0141;450081;426951;430973;418204;417665;418192;444643;430331;424968;43779  
5;430550;427576;427566;418360;435379;436928;419188;435529;445288;429498;4  
27269;426305;444022;449791;420540;438160;438168;438206;449875;449847;4498  
48;438149;422453;429626;420299;437984;417833;417872;444873;437013;444818;  
429375;429376;429431;418220;421551;445079;420149;416505;447209;447194;449  
899;438170;438175;418236;426654;417614;424609;424610;424578;417748;417835  
;417842;417844;417570;417654;444996;444995;444997;418196;421342;447216;41  
9896;437228;437388;437389;437801;437800;437406;437391;437390;437387;43740  
7;437392;437802;429015;419855;429016;418348;418374;418356;429575;429370;4  
47260;447269;427493;434329;427557;427567;427605;434318;438167;438163;4381  
65;438164;449908;418972;437944;424413;424591;416478;417683;417721;421409;  
450140;429067;426961;443312;444883;447165;436812;436477;447091;436482;436  
483;436488;436489;436490;436495;436502;436492;436498;436494;437629;429324  
;420238;429415;429469;436629;434689;419674;426026;426029;426033;426525;42  
6558;426559;420793;418226;424906;424880;424887;420580;422947;436107;42763  
3;436065;436043;430432;420575;420296;430143;430149;430148;426839;427162;4  
34910;434989;434841;444654;424304;428388;450156;422374;421578;426053;4343  
09;434130;427562;421363;444736;435527;430336;430349;444768;444659;419703;  
421720;430335;417497;417474;429638;421718;437869;426090;429605;427235;424  
300;427268;430898;429639;430930;430980;424291;424172;424290;437818;424299  
;427211;424325;426118;424237;424187;424293;426105;430941;427198;437855;42  
7248;429629;429644;434224;430136;426457;426466;426467;424236;426124;42876  
7;425161;437845;426086;447105;424306;424339;436870;434682;444586;417492;4  
17469;429402;429371;429453;440526;433790;437296;437227;439236;433074;4259  
12;439179;445299;436829;447179;423029;419881;434688;417797;417555;429013;  
429647;435499;419527;428379;435706;419516;418058;418039;427500;424216;424  
335;438140;436841;425765;436987;419592;437138;419603;427470;444712;445438  
;429772;443825;441214;430855;430851;430849;417735;417855;429348;437925;42  
0312;420311;437650;429391;429277;435292;435291;420578;420589;444650;44982  
9;445167;437427;427201;430341;435514;444639;435486;424563;435542;417352;4  
30386;419948;426463;429265;429267;418022;419845;437426;416510;431782;4368  
84;426865;426470;426471;426315;437566;450191;445164;437561;437589;422430;  
437372;436859;417854;417866;417692;417846;426028;438226;417731;417784;429  
883;420145;420308;420570;429573;436982;445081;438157;424496;422650;425994  
;433217;449937;438158;430130;427594;427558;431017;416504;430396;427787;43  
0392;444733;444617;428762;444690;424939;444655;444670;444756;419824;42709  
2;427094;419956;427095;427778;427794;427780;427782;427785;427808;427679;4  
27669;427688;427768;427791;427760;427708;424271;426114;427683;427764;4276  
82;427775;419943;426725;426729;426860;426862;430927;450040;419942;430430;  
426052;450104;450044;430921;444761;444789;421615;429992;421348;426056;426  
797;421626;450161;421400;425911;427783;419940;419938;420012;427742;421636  
;418198;427689;435477;424504;420572;427612;427601;421599;450047;427472;43  
0332;421733;436072;436040;436057;436061;436062;436075;436080;436082;43606  
7;436073;436058;436070;436069;436051;436081;436056;449943;449944;449946;4

49949;438154;434274;434292;434234;447277;437978;429339;427281;443263;443298;430853;420761;422408;429024;450236;443483;447701;414630;428360;418237;421505;428357;428356;416498;428351;428355;449969;449933;449934;449935;449968;449970;449936;449872;421458;443309;443316;421500;427232;420037;433243;433244;439296;433127;449311;433156;433114;433119;433180;439187;439230;439223;425866;42592;425906;425907;426003;433122;439211;418241;418242;449971;438210;449871;443264;449945;449947;434237;434321;418349;418350;417935;431019;437873;426768;419915;429517;429585;434922;434895;435533;437214;447118;420147;444519;444747;435506;429643;429625;448793;437524;426078;427270;426297;444922;444966;437025;444881;450051;418387;419174;448715;448711;427639;420140;422752;426507;447618;424952;428776;429285;429527;434646;424400;424532;417682;429521;436984;444874;444844;437630;437646;436969;429492;437017;415648;429479;444869;437032;429493;429320;444923;429489;444965;437672;437020;444856;444877;444884;444870;429519;429540;429543;429552;429557;429562;429563;429574;429506;429305;429307;444929;429318;429322;444940;429472;429477;429481;429483;429485;429488;429496;436967;436985;436993;436995;444862;429289;444933;429293;429304;437021;444954;437016;444947;436986;444885;444850;444968;429331;429463;429321;437668;437676;444924;444863;436980;437042;437640;437003;437018;424622;429546;429556;417690;437637;444952;437631;444638;421195;430858;429134;429132;437095;429131;429130;437028;419997;419999;430556;419852;419822;426804;419911;419989;419720;426807;419983;427640;428786;434504;445067;435520;436878;423466;430401;427519;421593;417832;437935;447098;437943;427233;429536;436879;416655;444633;434319;425131;443230;433370;417701;427613;427603;423042;430842;434708;429750;415650;420085;421194;417020;418646;418636;424637;421182;437945;417705;438034;436875;437960;437962;438026;434229;418631;430635;424955;444788;430421;428385;421391;421623;428394;427630;444738;426542;450160;421414;421387;422530;450054;444714;418895;420098;420087;422551;421407;437865;427496;421710;435528;435545;444751;444726;429669;424929;445357;429278;447467;425168;420089;424972;444739;430359;430907;421369;430915;430405;434871;418836;434915;427264;435475;416671;434737;426953;440271;447300;421629;447812;450146;418006;427229;447385;428751;450120;419297;447800;434785;428769;444625;423002;437868;437525;428389;424253;426861;418344;419660;422520;416674;434880;417508;417513;419300;419299;447817;417452;422550;430926;424281;430950;418382;425143;417506;417510;418810;421310;421321;434613;419296;419298;427451;427434;428748;417192;447769;447350;447360;418833;418837;426117;430922;418831;418835;447778;447090;447473;429988;435583;447228;437896;437900;434455;445285;437890;426320;437894;445348;445253;418399;450148;447744;421401;450159;422556;447777;421383;447797;424273;423023;424975;420302;447229;436603;428322;436582;436571;436579;436590;436569;436570;436567;427430;427447;428284;444599;436617;428731;425156;428326;428338;428300;428301;436601;436589;436635;436313;447337;426844;427038;419819;419261;437626;447792;439963;420508;427041;447813;450037;429680;426121;429667;447805;447739;447740;447741;447738;447743;447808;447763;445325;447742;447762;447807;447806;449030;449095;448999;424850;437330;427510;426430;426431;426433;447841;424892;427428;426419;428758;418898;426568;426564;426550;426551;426552;426553;426560;426569;426544;426547;426555;426546;426548;427473;437720;427634;417372;444276;437567;447843;422560;435511;435492;427632;429645;435498;421582;429017;435524;430340;427471;424947;421592;420797;424869;436475;434164;434268;449996;438201;449957;449977;438199;438197;426461;434919;426468;432203;446590;426462;435040;430366;426624;428798;430360;430352;424963;430384;430390;421361;435496;435541;419260;435393;436927;428765;418357;435657;420599;450078;427495;429681;437463;428916;426285;417018;418639;418654;418660;428346;418650;421190;422600;422585;422747;422778;427357;427372;421200;424645;421183;421188;421189;427349;427354;437468;417944;422769;437340;437343;428719;427391;437304;437328;422582;422733;437697;416831;427478;428784;424966;435485;426301;428759;426935;430567;444762;447054;445243;427525;424901;424886;426432;428231;426528;447844;424885;424891;420798;437905;426318;426752;418345;

436486;436499;422411;447614;436484;427564;427572;427552;427545;447341;427565;427593;434864;449895;413592;427582;430343;436055;437716;437694;437746;437751;444918;437474;437492;443177;437707;437734;437737;437745;437440;447541;447542;444484;447540;447534;444485;447543;447535;436459;429544;445235;418394;438693;425256;443649;418404;418395;432505;447042;437478;418392;448084;447979;438749;438726;420223;418401;438602;438566;443482;440745;418393;418406;438735;437476;447537;425631;433402;441407;448786;448787;448778;437199;437298;437299;437200;437202;427676;437933;437693;428720;428714;429866;429871;437491;443176;428715;428721;429867;437490;437489;437762;443174;443175;430819;437464;437493;437494;437483;437485;437487;437488;437700;437702;437708;437719;437749;437750;437758;437732;437735;437738;437742;437744;443168;443170;443172;443173;443178;443179;437695;437713;437729;437724;437728;437726;437696;437712;437714;437717;437730;437711;437486;443171;447041;447040;437706;437710;437739;437715;437310;437326;437731;429869;428723;429863;428716;429861;437723;437736;447049;435055;447051;447548;447050;437452;447033;447046;444486;447045;444465;444466;444476;447035;444464;444461;447039;447048;444472;447553;437445;437446;444469;447546;447043;447044;44459;435065;435066;435068;435067;435069;437748;437692;437703;437691;437740;437733;437496;443181;437704;437718;437743;428909;437741;437482;443167;437709;437481;443166;444470;447536;447538;447539;437449;437470;437469;447037;447036;444480;444474;447053;447552;444482;447555;444467;437479;444457;444456;444471;450187;437473;416521;416522;437477;437471;437188;428717;44832;426425;435505;420610;428781;418377;428367;445338;445345;445279;445297;445301;445341;424855;424857;444067;444077;444052;444059;444053;445342;445344;445335;437600;445340;445343;445336;445310;445304;445316;445347;417328;445339;445379;434615;445328;445360;445368;445363;430633;426898;430632;445289;445346;445354;436473;420604;420621;415710;433270;418219;450158;422557;414628;427306;419168;416758;420617;428794;447119;417778;420616;419184;443303;420052;430806;420608;418430;419173;419179;418413;420615;429665;434351;430820;428790;419171;419172;418425;418431;417336;447448;419169;436478;429152;447661;439438;447703;414626;440697;418390;444006;449809;420821;430863;428880;429155;447723;447682;424884;424845;424843;424844;424873;424909;424910;424911;424912;424916;424917;424918;424867;424882;424883;424846;420073;443283;424914;424920;434488;445075;434514;434495;443287;445066;428857;444912;418233;443260;443311;418229;448968;419929;426755;419916;419181;418416;443317;428962;418232;420076;443292;419177;445065;434500;420606;417879;447659;437332;428712;447732;447715;447666;418353;418347;426042;430424;449834;419863;420084;418978;436103;429206;418238;441266;428255;421343;428345;428254;428256;447456;447463;447432;447460;418225;418223;430052;436626;425170;434941;447403;447316;447440;418346;432375;439637;441654;443630;447981;447959;437411;437413;437415;437412;437414;426428;424847;424908;424915;424919;424872;427122;427123;427034;427115;436616;436618;437420;437418;437416;417878;418920;434852;437417;438223;437419;437437;436465;443258;443259;443306;447677;414632;428349;417411;436615;429818;418227;428358;420045;417316;447375;428347;441621;443540;443104;426718;443289;420041;421390;447345;447347;428261;420324;436512;419712;419706;422513;449833;449838;426458;429973;426456;429972;429985;429979;429983;429986;429984;429974;429976;417517;429978;419256;426465;429987;429980;429975;429977;426454;429969;426475;419710;432186;424465;440367;424454;420050;414637;426292;417440;420060;448222;420042;447399;447384;447400;436613;436606;436625;447366;447359;447339;447294;415654;417433;414633;444180;428344;434687;428272;447468;428291;414638;428353;416497;421510;447689;419897;420876;427081;419892;423394;423399;438306;443686;438840;442533;425295;444124;433810;418668;448705;448468;448503;448536;419998;440985;421798;442818;442254;448092;433762;419811;420724;420727;442559;420479;449653;441046;442077;443409;443510;418701;418756;423633;423453;444128;440096;440744;423105;421772;421862;428930;423446;441728;438575;438351;442292;441772;442288;443031;442295;439974;425320;442712;442283;421799;420478;423965;421912;442268;440050;443852;443958;440770

;443527;443604;438325;441650;441593;438257;442221;441114;440752;440801;440643;439986;443812;443775;440002;421863;423593;423568;423558;421791;421796;421815;421774;421779;421895;423261;423265;424012;423732;423256;423147;423262;423264;423400;442278;421894;423733;423498;421778;423741;437699;437753;427477;430344;424362;447453;435415;429686;444250;444340;422065;436463;447038;421336;432984;444905;429524;434808;434798;434858;434914;434800;434894;434859;434984;435028;434959;434963;434947;434979;434999;434994;434876;434990;434878;434957;434951;434805;434868;437632;437678;444931;444896;429526;437635;444904;429490;444901;444937;444930;437669;437039;444921;444944;444935;437033;437038;437040;444861;429539;429547;429548;429553;429555;429580;444910;444903;444938;444958;444959;444960;437670;444934;429538;429586;444915;448168;437893;423101;442073;450200;420347;420366;416334;450211;450198;406862;417494;417471;429080;429081;429089;420352;420359;420364;420365;450209;450203;450202;450201;450199;450210;450204;450206;450207;450208;450205;421652;436458;423364;424003;424078;424076;424394;439753;421550;424079;423820;444745;421408;432266;439777;432316;446079;419519;446343;432361;432341;446072;420816;445287;413589;413588;414461;432293;422111;443955;443853;444013;429776;429781;418419;439608;440405;442830;418418;420847;416757;418653;429806;429811;429816;418811;420445;418663;444495;418222;433408;448165;433118;433101;433405;432890;425997;425943;425964;425927;433237;433083;433099;433439;439290;439291;425963;425965;425944;425945;425893;426000;426005;426016;439364;439176;439292;439233;432894;433130;433227;433267;433432;433444;433379;425947;425937;433195;429133;429124;444247;441835;444203;419547;441913;420216;435418;421338;427371;438580;433737;421964;421958;441256;431080;442903;440203;440213;438481;438537;443498;441843;419514;428386;419512;419528;420088;443628;444336;438665;444334;433952;425286;439672;444364;416420;438579;438601;444357;443426;444402;444419;433944;438700;438719;444407;439571;443399;443637;441597;438358;442174;442537;440017;441643;442061;441317;443021;434024;443507;428749;448063;444446;444436;422537;447765;423570;423415;448493;437539;430467;448598;424025;423632;423365;444156;421885;423437;423360;430466;438501;433614;444151;449633;424160;423209;423232;423248;424525;417727;444081;444185;423355;423543;423430;449105;423545;434035;441657;442123;421864;425639;423459;448416;425483;425612;425571;444125;432935;432938;423867;423952;439172;433136;433167;433093;433084;439311;439668;433110;433145;439201;439151;433165;439206;439250;423460;423670;421945;423128;448101;433840;441898;423535;423451;419994;448254;449171;440586;443907;423928;422147;425140;440436;433538;439142;433587;425327;425423;425971;433751;433693;448178;443440;443464;433536;434027;433572;443588;438779;439433;440489;442799;439565;440576;439634;443919;442263;441195;440323;439481;438471;442336;443559;439591;440582;440753;439388;445330;433586;421940;415647;445246;418139;428928;417821;443416;443478;442075;443534;441222;440357;441180;423923;432373;448979;421847;433472;444346;433999;438682;441009;439221;426023;439366;433215;433166;433663;439175;449187;449212;433607;433588;423782;418720;423455;423666;445650;422099;445644;432274;446959;446039;446476;446486;432272;446926;446423;445754;445689;432185;445419;422069;423489;448391;448443;426649;422029;422034;442961;420772;439090;439284;439285;439266;439280;439286;433410;439215;425870;439323;421882;422033;446811;432187;418965;445703;423852;422148;433140;425244;438300;433861;442862;420777;441268;442894;442045;423380;432303;424534;424541;449019;445824;445705;432329;422155;423361;423205;423193;441479;448008;438605;433948;425956;435431;425879;425262;433205;433265;433707;433904;433907;433391;433717;444440;433206;439146;425953;425933;433395;445478;421866;448087;441171;433566;433517;438815;433342;444451;439127;438214;441013;448471;448473;448811;448490;418751;444144;444164;442532;443523;443552;443526;443017;443086;441349;443030;443010;441187;425532;425518;447994;432963;425548;425581;425514;425515;425522;425533;425536;425494;425497;425513;443375;441680;441234;441205;433278;449218;438920;438908;438900;438877;439031;448120;448145;449672;440968;420193;440991;444246;433334;438737;433926;433851;448148;44115

6;441628;425976;449316;449315;439330;426009;439309;433374;433247;449261;426018;432480;443560;438475;444127;446271;443578;443971;439384;440352;439495;440207;438296;440552;443090;439892;440069;441169;438535;433537;423363;442997;418749;449069;449051;449065;449072;449059;448285;449161;448297;448362;448326;449111;448351;448359;449168;448358;448292;448981;449061;448325;448371;449071;448377;448323;449060;449068;449063;449070;448982;449145;448385;449008;449133;449005;449100;449119;439466;448383;448991;449081;449175;420643;423818;423857;448706;448703;448606;419968;427128;427796;440038;449828;427756;436462;420357;420360;420361;420363;420362;436455;436454;436461;436460;422113;437458;437973;430578;433486;447531;425163;437674;444917;437035;429587;444897;420755;420756;434533;434535;445376;419664;436268;447512;436856;436391;436224;419659;419443;436386;436251;447493;436205;417954;416481;419725;445409;432260;425988;425985;433245;433386;439210;439342;439355;439231;433079;433463;439171;433260;432213;448943;441401;422142;436387;449193;422719;439035;448176;438999;433649;446210;436314;432226;424545;419971;448290;423788;445371;447517;424553;424587;406799;417686;444835;422783;425556;425430;438404;444983;417277;438047;438040;438058;438057;419669;437316;434460;445314;444988;444987;444984;439648;425954;445307;422118;439301;439170;439180;439262;433181;425806;429179;438097;429862;443240;437331;437335;427033;427319;428684;436252;423815;436367;424049;436297;425747;425722;433280;433286;433858;444580;417957;418182;421177;421173;430721;447532;438107;428682;445309;445261;420305;437887;420697;430801;447523;430799;426926;426835;426924;433795;436366;421491;430800;436262;426923;418860;430410;430075;417963;445355;420132;422671;434715;445364;430803;430804;438086;443743;428696;438108;444978;448307;449125;449046;449049;449045;449047;449040;449094;449041;449074;449050;449097;448340;448355;448366;448988;449075;449079;449044;449048;449073;449170;449054;448992;449107;448013;448308;448225;448293;448288;449055;449053;444981;447533;445366;430090;421514;429687;445265;414020;445183;422182;432294;422131;422345;436283;425716;449225;438895;439092;439093;433108;439182;439202;432872;433135;433431;433384;433429;436301;449227;439015;436290;420131;425741;433527;436390;428679;447477;423422;443954;425050;423423;425189;422944;447471;447472;447527;439780;446749;435391;430045;424672;418009;417967;436310;436336;436330;436365;436329;425203;421519;445305;428701;416489;436267;427321;427307;422939;442472;422117;430553;430547;433882;433411;420241;439436;438324;442102;444347;440839;440282;438710;417623;424583;424584;424500;424393;424508;424461;424483;424414;424450;424605;424573;424576;417786;417703;417808;417809;417827;417543;417573;417583;417588;417626;417634;417712;417755;424449;424593;424380;424392;424460;424419;424601;424512;424515;424516;424568;417790;417836;417549;417536;417678;417612;417630;417635;417636;417645;417633;417810;417680;424559;424571;424440;417650;424406;424407;424489;417613;417552;417542;417741;424475;417537;424498;424575;417600;424511;424594;424588;424589;424582;424554;424620;417745;417753;417739;417586;417676;424447;417709;417625;417597;424474;424619;417774;417824;421754;441356;436376;423463;447515;43669;444133;447759;422149;417978;439346;439293;439237;424481;445308;425750;424452;427606;417814;417639;417820;427323;429256;449251;421172;428694;421179;436063;417744;444976;437019;436990;444887;429325;419707;417010;417007;421180;435422;423288;422137;439907;444000;438474;440755;438293;439087;433295;439508;442646;436272;439937;440166;430033;426075;446466;446207;447747;447754;447781;447746;447745;418986;440397;422948;422791;445250;442897;443053;418183;442706;440736;443855;440700;426738;428686;445248;422929;44512;428681;445313;435423;435424;435425;435403;425864;439337;441916;432877;442043;444955;433174;433183;420158;433378;425187;442144;420227;419680;439154;428706;445326;442057;441296;440183;419677;420127;428708;445278;445324;422085;420260;417923;418410;422144;450109;445263;439155;427754;427741;422491;422497;427724;439199;439218;439348;439349;439306;439216;439263;439200;439245;439247;439264;433168;439217;432899;433615;438976;433547;425995;445332;445320;425951;428705;421178;445323;445333;422090;444525;449255;4481

72;449219;439253;433186;444971;434657;447619;419861;425249;438268;438365;  
442074;439451;433976;434001;423573;421811;421810;424971;424881;424345;438  
105;417402;427728;427661;427666;443097;435420;416426;433419;432925;428703  
;421492;428709;425220;439259;425959;439332;439352;439365;429284;434355;43  
3335;421174;439441;417578;422418;438089;433580;420290;419854;419800;44925  
6;448153;449179;449208;449210;417609;419891;437224;419661;445252;447530;4  
39391;441326;443909;441161;443730;433098;433643;433609;433583;430718;4286  
95;428687;430481;436235;436317;436356;436287;436292;447397;447497;417956;  
444985;444982;443238;438073;438119;438050;438055;423026;436100;421175;438  
090;436378;436217;447485;447483;428680;424484;417647;444973;424233;428763  
;433121;433177;433096;439328;433132;433095;433462;439193;444980;423438;44  
4248;433800;438327;442256;442892;442305;442055;441560;443685;428690;43807  
2;447506;447478;447513;429315;422950;422955;422571;422770;422938;422943;4  
22756;422787;422957;425260;420248;428711;433418;425939;425868;438889;4257  
17;430720;445273;436245;447756;421470;421495;439945;420130;425729;421171;  
421176;433640;420126;419573;447474;426365;444977;420706;444975;448771;444  
979;434650;420795;419553;436466;430108;427314;427320;429135;444846;444680  
;436097;426846;426652;426847;444989;428884;447755;444986;430796;444972;42  
8878;428908;428915;448514;425199;421907;426636;419673;428689;447514;41515  
2;444974;436315;447488;429029;433621;445683;432379;419851;419991;419236;4  
19235;430101;430099;426840;426986;430100;427310;427311;414019;430072;4172  
36;418988;440887;425611;434837;434834;434893;434958;434877;445262;422634;  
442704;423743;422623;422688;423884;422737;440800;423708;444607;423800;423  
707;437300;424374;423146;423462;423580;423705;421655;423362;445176;436453  
;437472;422850;424876;447733;424495;425829;430037;417719;439478;430339;43  
7747;447731;447334;419548;449131;419877;419825;417312;443884;425482;42549  
1;419732;419937;420943;421250;421251;424455;413851;429670;417322;435281;4  
28730;430439;438961;438972;416336;425865;425869;420251;441711;433434;4259  
98;425999;425993;425730;425881;425882;425885;426002;426004;426006;415583;  
433198;428823;428465;413852;421224;422093;425863;422174;438875;438884;439  
020;424052;442792;423554;425849;418503;413580;413590;435282;416364;428459  
;410486;420378;424703;417591;417602;416401;416397;416405;421225;416907;43  
0444;430734;430735;430736;430742;402128;430016;421254;423395;423396;43788  
3;419790;448298;426801;423951;425385;439418;442841;440382;440057;440106;4  
18321;442468;441419;441430;441423;448942;441377;441364;441699;448918;4413  
63;441418;441406;441408;441415;441373;441765;425755;441421;441432;441771;  
441359;441425;441434;441435;441417;441426;441376;441369;441770;441361;441  
382;433329;441717;439656;433557;425584;439057;440898;422768;422774;412872  
;443947;440723;427149;427054;425554;439440;444009;424087;433862;425302;44  
7995;423338;443851;443719;442487;432724;432547;420239;426997;426974;42695  
9;447761;408488;416320;413880;416337;404227;416376;437621;435612;447107;4  
37623;423574;447093;411915;429036;415711;416425;414686;411957;420109;4284  
55;440403;433852;438529;439941;440384;440547;439968;440492;440261;439909;  
438361;440338;438514;439935;442915;443764;439613;424110;420954;420923;416  
416;432828;432542;419817;419231;426164;417792;418990;406800;420890;429034  
;406538;417313;435670;437882;424471;416390;416047;429853;416355;429852;41  
6374;416396;422877;408976;416474;416046;446317;432315;421259;443242;42616  
6;426169;413753;414692;416348;413857;416395;416399;416044;421252;408486;4  
04228;427779;440168;425657;425699;432614;441378;441355;441358;441670;4388  
24;425685;425693;408515;408514;420805;438460;440194;443982;440085;416329;  
443007;440617;425848;418441;418442;418502;418504;418506;418507;418508;418  
509;418510;418511;418512;418513;418514;418515;439066;433289;440730;414487  
;419227;428473;414510;413861;416367;413883;418267;418269;412862;413559;41  
3561;437056;436673;437051;437055;436674;436680;436678;437050;436676;43707  
9;436677;436681;436683;436675;437053;436679;437046;437049;436672;437054;4  
37048;427664;422410;425505;440503;432831;440649;441573;438489;439865;4386  
91;447984;440278;439533;438443;418304;415659;443821;443959;433714;436564;  
413607;417317;428342;435608;430791;430792;435609;428313;428298;428727;435

645;435637;417553;424396;417576;435627;435615;435641;435636;428267;436638  
;428274;428312;436620;413871;428302;435586;436050;435596;417325;403931;42  
8450;417318;417320;435639;421313;428306;417616;423050;428257;417321;43761  
4;437608;428343;436612;428279;436577;436605;436587;428323;428303;428333;4  
36591;436584;436594;436597;428287;436619;436578;428273;428309;428268;4282  
99;436568;436637;428308;436634;436636;436566;428264;428265;428266;428269;  
428270;428276;428277;428278;428281;428282;428283;428288;428289;428290;428  
292;428293;428297;428253;428304;428310;428311;428315;428318;428319;428321  
;428328;428329;428334;428336;428339;428340;444560;428295;428320;428330;42  
8325;421305;428258;436627;436628;428337;428728;434612;428324;428327;42827  
1;428305;428332;436640;428307;428317;428275;443255;436595;436609;436580;4  
36576;436604;436596;436583;436585;436572;436573;436593;436581;436608;4365  
92;436586;436575;436599;436588;436600;427418;442338;416389;419421;426955;  
429012;443239;421656;419508;432209;420969;422051;420960;422139;445756;446  
484;446497;446494;446282;445794;422077;419412;419420;442629;442637;418110  
;420994;420916;445452;418108;420917;421002;432325;419474;419499;422136;41  
8155;432291;415657;442718;442714;440660;422146;418163;418159;419409;44543  
9;418111;419435;422351;422350;422362;420970;422040;445719;418145;446183;4  
22121;419407;422066;422049;419429;422056;445862;415920;422089;432259;4209  
41;445489;420961;422106;422152;418151;422078;422346;420979;432350;420995;  
445721;446441;446762;432200;422028;422366;422153;422344;445938;446307;418  
136;418158;418156;419439;422364;418165;422363;422370;422087;421010;432323  
;422354;419491;422026;422163;422055;419472;432318;422104;432225;418144;44  
5496;445434;421009;418143;419422;419424;419418;445494;419498;432242;44570  
1;420937;432285;446043;432286;422050;420951;445671;418147;422039;420988;4  
32190;445591;445507;422360;422358;446137;422068;446280;446061;422021;4322  
48;432176;416033;445485;418117;446164;427124;422084;422052;422184;441431;  
423810;418137;426848;421826;421827;423811;444227;441695;433820;425635;433  
739;440018;433860;421006;422060;432387;432312;422059;423749;418691;442883  
;441037;423742;423787;439992;439610;443872;434032;440438;438356;418703;42  
3802;421784;418679;420915;448459;418694;414499;414506;414426;413488;41450  
8;425572;415495;435416;418800;421202;421206;425887;414505;419531;419533;4  
19534;417459;417461;417462;424643;424646;424651;427389;418625;425413;4404  
00;448956;447011;418633;437273;437274;424657;437245;426850;441615;424565;  
420356;424540;424509;424399;424549;424472;424499;424439;424612;424550;424  
502;417793;443949;420520;420488;425561;425614;440283;443956;443892;440301  
;442806;425991;441478;438574;438650;425530;433049;440994;440996;420765;42  
8959;445224;424874;424875;416488;447611;419889;440288;427665;437659;42927  
9;429373;429360;429420;429421;429427;444824;417412;427658;418409;438033;4  
43786;445678;444822;442070;432253;419745;430848;418329;437972;440124;4484  
67;429115;417958;419813;418328;449146;437937;438095;429426;423389;417759;  
437931;429448;437664;415531;419654;437266;442448;420184;422639;414509;437  
275;429780;420069;434471;447635;439562;423829;423366;429814;443859;440705  
;440734;440684;427396;448278;423819;433642;433813;425452;441153;440177;43  
8299;426963;439463;425277;449649;429583;429584;444864;419655;422701;45023  
5;440099;447328;414498;418987;442108;414497;421457;421461;415464;425134;4  
14504;414574;419662;418916;418627;420338;420339;438381;443233;435134;4351  
38;418799;431101;416387;416363;406533;413864;416361;413886;416359;412966;  
414511;428475;408669;413885;449009;413901;420640;417285;433819;414432;422  
660;415493;422675;414541;415494;422891;422883;422886;422884;422878;422874  
;415517;415519;415510;413573;422679;422690;422848;422857;425319;441075;42  
5563;445274;410301;411950;416340;411902;435671;420245;420280;436645;43666  
9;436642;436654;436650;436652;436663;436641;437074;436651;436661;436644;4  
36670;436662;437081;444023;436664;436659;436660;436666;436665;436658;4370  
75;436653;436647;436657;436643;436646;436656;437068;437071;436667;436671;  
436648;437073;437072;423890;426880;413865;447255;427408;420110;427420;417  
981;418959;418216;428691;428692;418265;434456;426362;421735;435111;419238  
;419234;419709;414600;414623;416477;415151;415503;418027;415660;445259;41

5658;415661;440967;422517;422648;422872;422803;425182;425183;420114;42011  
9;417205;417206;445247;420115;417034;445260;425178;425180;416487;425179;4  
25181;425184;425185;425186;425213;425217;419676;420112;420117;420122;4201  
24;419679;419678;414579;419683;425196;419682;416484;420113;436382;425197;  
426647;440094;436214;436220;436335;429774;429743;429738;442782;440683;447  
734;427766;417961;437625;448824;428699;425744;425752;438844;439095;433518  
;449222;438849;433608;438783;425713;433525;438757;438766;425723;438879;43  
3515;433591;428710;419927;426971;426715;419728;427792;426841;426825;42684  
2;426666;427143;426732;426688;427144;426853;426634;427762;426852;426855;4  
26952;430479;419995;419970;419986;419939;420036;436098;420524;430543;4268  
56;426943;430584;427707;427797;427736;427747;427752;427793;427798;427701;  
427709;427713;427714;427786;427803;427691;427694;427670;427667;427806;427  
684;427807;427740;427671;427767;427765;427695;427710;427753;427755;427763  
;427746;427699;427745;442094;427685;427046;430542;426659;435048;418248;41  
8249;416994;419233;418253;419240;436383;442076;444925;442876;419688;41968  
7;416485;419690;414598;443746;443749;442641;443999;420116;420118;420123;4  
23492;423483;434724;423352;420121;423859;423918;420120;428677;445258;4452  
45;426675;427299;444990;438679;425219;427412;440445;427409;428452;409067;  
447608;428461;428444;413015;413014;408008;408009;428445;416358;416365;425  
177;418327;406594;406534;433222;425816;433303;433360;433522;449254;433581  
;433288;438860;433563;448139;433314;433567;433562;433633;433589;448205;44  
9211;433283;448190;439081;448169;448151;433316;433576;433501;438868;43363  
0;433539;433291;433529;448200;438827;433590;433565;425700;448121;448188;4  
48187;433552;433281;433550;433371;439103;433357;433339;433359;433307;4333  
30;433341;433358;425762;448185;438763;425728;439070;433305;433638;433511;  
433338;448118;433551;433346;425792;425745;413868;416369;437329;427410;429  
001;422017;432257;439709;438297;424108;418319;425498;425480;420206;420163  
;420284;420185;420230;420175;418670;423876;414043;415148;438458;413693;41  
7178;420151;437067;437082;437066;437063;428460;447914;424359;430440;41404  
4;414042;414040;437191;429007;428446;433187;439239;439240;433204;433420;4  
33387;427801;425701;425715;425978;439297;439315;439361;439335;439363;4391  
94;439242;425942;433208;439018;425726;439045;433086;425979;433356;438901;  
433344;433362;433549;432869;439067;421691;441370;427027;417263;416353;416  
380;416393;416394;416384;440740;424088;423690;428488;428489;416404;421226  
;421227;421229;421231;421232;421233;407313;417604;417628;417627;417649;44  
0501;440515;438534;424607;424581;424577;424017;424018;439923;423359;42348  
6;423639;418302;448413;417286;440226;418309;443980;420683;423069;423494;4  
18307;420942;432326;418000;425463;443225;438914;418696;422171;423786;4239  
10;421887;418700;416738;417239;423942;440764;440656;423877;424117;432965;  
433034;432799;425496;420198;448395;448409;420160;432900;425486;416739;423  
546;418084;422359;418105;416024;422172;418106;418092;422187;420929;422053  
;422178;426429;424062;423959;417667;418315;425632;413894;442398;425466;42  
5477;425495;439677;425638;425510;425471;425517;425488;417666;411952;42910  
2;429077;429097;421258;429086;421257;429085;429098;406531;416321;429074;4  
29088;429078;429096;414687;403936;403937;429101;429076;429100;429104;4291  
05;408010;447621;428829;420101;402129;434694;417276;449327;448136;425818;  
440511;433574;438926;425786;425721;425733;433284;425880;433214;417335;413  
582;414462;414467;422918;414563;424538;403963;447910;435621;418991;425594  
;413878;430441;413879;447916;446067;416370;416379;444575;417329;437958;43  
5594;422428;416362;406970;402132;447767;420108;420105;407079;425872;43342  
3;403962;412899;420102;420103;420106;434693;416829;416866;407987;410537;4  
30443;422429;420642;412026;428469;419554;435587;435580;437190;422349;4379  
76;421654;402123;413613;443953;420789;410218;406973;429103;419432;413902;  
413898;413893;420111;421228;421230;419228;428474;435649;435654;435650;435  
634;441767;433657;406716;406717;402121;434534;411955;412898;402127;411927  
;413615;418379;447253;403928;413610;413614;413618;413620;413621;413608;41  
4479;414481;420790;413616;402119;402124;411953;408479;434564;417064;43456  
3;403930;421253;413692;413694;402130;408431;419701;429006;444068;429239;4

43200;443211;443228;443221;418675;440032;419807;443206;447909;443201;437087;437045;436655;437085;444025;437059;437064;437065;437084;444024;437076;437083;437088;437060;437061;437047;444026;437044;437077;437189;435142;437192;443222;443226;443224;402125;447257;429140;430297;447728;447729;447695;447704;447712;447717;447684;447683;447685;447886;403934;406595;447696;435127;414041;437651;444909;444849;429328;429542;437041;402120;406798;417319;403929;410719;428468;428467;428478;416398;416324;406536;406535;413522;429079;444273;416356;412967;408670;411066;410531;410532;441403;428477;423586;435601;437618;450196;410044;413619;448143;417880;447629;447630;447632;447631;447627;447628;424542;422630;422806;426307;438078;436389;413568;414458;414547;415513;415521;414542;414544;414536;415509;415506;415508;415524;415501;415500;422893;422717;422654;422887;422749;422746;422919;422819;422661;422716;422842;422715;422641;422672;422728;422689;422835;422837;422840;422843;422868;422871;422894;422801;422805;422811;425476;425057;419259;425059;425048;425058;425060;425061;425056;425474;429295;434349;434845;438032;415522;418411;433282;422824;422802;422779;422875;414589;428883;426427;418808;422681;437947;417264;413564;440553;425802;425324;425054;425662;425805;422622;414551;422720;422730;422742;422762;422873;422889;437687;444828;439117;425819;414500;440135;416740;425796;425810;417211;420168;415504;418026;421459;417261;445329;421891;422881;413577;413583;415489;415507;424379;443193;417283;415479;422638;413558;428451;422631;422767;422882;422827;422645;422676;422677;422888;422761;414452;415505;420944;422116;418148;414537;414539;422596;422904;414543;422581;440087;443961;435133;419835;416624;416603;416619;416565;416613;416625;416602;416598;416582;416610;416587;413459;412969;423539;416604;434562;413617;413609;416574;416577;416605;416342;416371;414485;420796;416591;418994;416594;416596;416609;416600;416611;416627;416590;416630;437057;416571;416593;416601;413899;444946;416583;416621;416566;412968;424051;421235;421236;416581;416629;416572;416573;416575;416576;416580;416606;416634;416586;416595;416614;416612;416597;419211;416632;416626;416569;416592;416579;416631;416589;416617;416622;420889;416354;411218;408430;410984;414484;407988;408481;435081;436440;435097;435092;435096;426754;419926;438139;438138;419884;427049;437582;447849;419932;426956;430471;427048;419878;434297;450214;435080;435083;447848;437442;437444;436444;436437;422407;447852;447559;435088;427398;426418;418375;427045;436452;435663;434555;447921;447557;447562;447582;447560;447580;447576;447574;447861;447864;447865;447563;419761;447578;436428;447564;419946;443188;435676;436435;435677;436421;436414;428826;447860;435082;436432;436417;447577;447569;428849;428833;428848;443192;443245;435682;435681;435691;435685;428837;428835;428832;428838;428840;443244;426882;443190;435683;419771;436451;447859;436433;437438;447862;447570;435689;435692;435696;435693;435694;435690;435688;435687;426379;435684;435680;430654;430476;435679;417917;417918;435678;435686;443247;428842;443212;436448;436422;436449;436426;436424;447857;435093;428845;443248;435695;428836;443213;428850;428834;443246;443216;428839;428846;443241;443227;422434;422435;422433;428844;428847;428843;428841;447561;436445;436431;435091;435090;436425;447855;447581;431103;436430;435112;435094;427744;427757;427759;427705;427750;447579;447573;435098;447863;447847;447575;447567;447854;437453;437454;436418;435074;436450;447571;436419;447858;447856;447566;447850;447556;444998;431783;431784;426973;418376;417033;443232;429062;445000;434558;447585;447584;447586;447572;416706;416449;443237;427662;434952;417400;427305;427751;427706;417388;417401;417403;427733;416432;427659;417396;419969;443203;428856;448412;436689;426767;426700;447583;436429;436436;447558;436415;443195;447568;443191;429807;429882;429884;435100;436420;435099;436447;435087;435095;443187;435674;435675;447622;444999;447665;435085;435084;421573;435078;435086;447565;447851;447853;448701;427415;420005;417444;435045;435103;435101;435102;435105;435104;413595;413598;427644;413597;421670;424363;421672;421669;421665;421671;435120;426944;424301;435122;426930;449941;449965;416541;445109;424361;416458;421667;421664;421662;421663;435106;415644;429335;413213;417387;

416412;416543;427106;418381;418383;417484;437306;437312;437314;437318;429868;437323;437322;437324;437584;428722;429865;429872;419985;426810;426743;426941;426870;426742;426709;426931;420004;436119;430689;419930;419955;426874;426873;430538;430539;430577;430500;430576;430619;430693;427025;427134;427133;430682;430683;430684;430681;430680;419965;426978;426975;426976;419780;419808;419749;419784;414008;417238;419692;413896;428670;415581;418824;413490;422644;414591;413600;412975;428713;435126;414558;435135;418324;425130;437512;442044;421260;421261;421262;418325;418326;418322;418323;412981;424366;417384;417385;414414;416331;416332;421668;447252;415743;417521;417519;444274;415742;417520;415741;435139;435131;430847;416542;447019;447025;429175;437307;420142;434565;434566;408482;418832;427029;423067;437320;437319;437321;437334;417524;426630;417523;428230;422413;437325;437327;414520;414522;414476;421666;416373;416382;416406;416407;424280;437827;420539;417406;419753;417391;417383;417392;417389;427773;417398;413599;427649;427645;427646;427650;417393;413214;417386;427654;427655;427085;435121;442523;416618;414501;408978;440088;416633;416620;414571;412030;416628;416585;414480;416570;414482;434569;434570;435283;416578;419832;427416;428466;416599;416615;416567;416584;419735;415539;413611;413612;443844;421787;413622;416607;416608;413606;414483;419831;414430;438084;425843;425850;425856;41798;442380;414009;437521;437523;418891;424255;418080;427167;424224;426107;420794;419558;417483;438798;440275;432630;432786;432746;432551;420255;434013;425441;438368;441225;418676;434173;439991;440420;420541;420766;418243;445356;422580;422781;422045;418734;421880;421943;423534;427001;430596;430679;420537;427680;446646;445405;445413;418707;438428;442982;439494;441039;444086;449650;419842;423118;417254;440592;441148;440387;441789;443702;425502;444079;444230;440181;425406;440422;423610;434720;438064;441213;44103;444112;425457;441700;441774;433728;425682;433821;426792;448300;423795;422653;419866;430032;442625;438411;422685;421358;421357;421359;439545;434475;430015;450017;442993;438419;450186;431082;428757;440310;448453;448555;448512;432269;440321;429997;430014;438485;425343;440667;438309;420247;433442;433216;435317;448461;448789;428897;437967;426776;419918;426685;426706;426779;426781;426788;419973;427668;427687;427082;420016;419996;426651;426653;430653;420017;427140;443653;442216;440122;441099;425377;438282;427028;422177;423426;419873;423112;423210;438626;432988;442900;441735;44850;445459;442060;432270;423695;423757;436102;449645;418669;423813;419399;423393;439527;423814;441112;424019;423259;420246;442769;442699;413603;413025;424027;423793;423736;423452;423059;419890;417926;429692;426696;426692;426765;441367;420182;420195;438083;422772;422750;421910;421911;417405;427800;427651;420306;431014;424346;431016;437798;437799;437796;426464;426459;437797;426502;440373;448679;448477;420256;420259;432990;425562;432951;427811;427813;427809;420799;420800;420801;419555;427810;412974;420136;420135;424369;417488;417486;417487;436246;436379;428697;416480;415641;415643;416503;416507;410545;430719;410546;419675;447267;418025;445249;436219;419237;424352;413870;427393;426629;440252;448821;439895;432861;419990;419843;427734;427690;427702;427703;427660;427704;417399;419794;417267;433000;417269;426637;417268;419791;420374;425595;432529;425481;420291;420252;432487;420285;426638;419992;423350;425501;425475;425731;425648;433348;415709;429682;419792;425576;439535;419793;419898;417584;424544;425878;424037;424035;419797;419798;424159;442222;424137;442905;423249;449719;418713;438502;423775;432579;423645;423899;425261;423085;423982;432970;423631;439426;423744;423770;423649;440231;423657;435698;420990;435109;418764;424435;440340;425296;449707;425325;433972;439454;440433;423794;423235;421845;423935;444435;423846;423898;419743;419759;419729;419721;419737;419740;448000;418706;421794;423160;423161;423152;423840;418755;421795;425436;438536;438486;423999;418711;423214;433829;425587;425316;425424;425492;425266;418582;433392;420211;439148;425659;415630;425676;425766;425770;423170;423321;423592;423832;414006;414007;414005;412116;423130;440152;440143;434481;423773;426817;441366;423233;418715;423938;423740;423491;423778;441031;440988;444191

; 444153; 433973; 443011; 438520; 439931; 441555; 440307; 440365; 425896; 440951; 418680; 437906; 437888; 449632; 424557; 420228; 449124; 433743; 421789; 425894; 442133; 442244; 443096; 441640; 439643; 442610; 443050; 440431; 441559; 441242; 438480; 422170; 423789; 440053; 438370; 440146; 441119; 423405; 423559; 427397; 420694; 438344; 418320; 438467; 443997; 441162; 433676; 443585; 433965; 439062; 420189; 440329; 423204; 423825; 425298; 422352; 432231; 420928; 440790; 443776; 425642; 423371; 440305; 422072; 419913; 440364; 418288; 418290; 418297; 418292; 418301; 418295; 420282; 418300; 418298; 418299; 418286; 418287; 418289; 418291; 418293; 418296; 418294; 418308; 420177; 419868; 419869; 425675; 448129; 440518; 437272; 420482; 423268; 443549; 423303; 444268; 422009; 423174; 423672; 423457; 423461; 418677; 423178; 421834; 423550; 423828; 421947; 421919; 420670; 423465; 423324; 423831; 422010; 418678; 421923; 421916; 421917; 432289; 423134; 440393; 423845; 421865; 420249; 420276; 432713; 420275; 420272; 420271; 420273; 420274; 442001; 420263; 420277; 420232; 426980; 426832; 426989; 420974; 439888; 427063; 440103; 443990; 422002; 423250; 420728; 417282; 423231; 433808; 439596; 437359; 437231; 437254; 420903; 423991; 423123; 423122; 425702; 423110; 440179; 434466; 423467; 424024; 417950; 434459; 434462; 437910; 423808; 421816; 423149; 441420; 423841; 422108; 432320; 417439; 423372; 415128; 423242; 422135; 445481; 423824; 439375; 421805; 421909; 425293; 438349; 439587; 439519; 442091; 423887; 417314; 417315; 438310; 417213; 423711; 444080; 438588; 438600; 439400; 432979; 438260; 439520; 439459; 438333; 418692; 418742; 448182; 433893; 433827; 423228; 420174; 448887; 442489; 420269; 420231; 420222; 420235; 440037; 443739; 421802; 423266; 440361; 449130; 433824; 422169; 432382; 443770; 440243; 440232; 440761; 418672; 442413; 423339; 443996; 443885; 442696; 442752; 443758; 440100; 440070; 442648; 443963; 440726; 440751; 440093; 433859; 443788; 438624; 443481; 441175; 438413; 441062; 441144; 418021; 418020; 421446; 447699; 447654; 447676; 447693; 447706; 447662; 447713; 448551; 418698; 420746; 418688; 430646; 440998; 423469; 418737; 423111; 441414; 430852; 448817; 448822; 418405; 441368; 445895; 419552; 422667; 417394; 422368; 448709; 448738; 423156; 421877; 423356; 423357; 425238; 423255; 439447; 433781; 441115; 443460; 443457; 434002; 438620; 439863; 439645; 442973; 438279; 443640; 438733; 439635; 433722; 438507; 441800; 442578; 439621; 443395; 423817; 423098; 440558; 423648; 419427; 439631; 440076; 440097; 440187; 440219; 433837; 439987; 440344; 419386; 423109; 423215; 423998; 423731; 442247; 438288; 440395; 440401; 438499; 438400; 441802; 440045; 441178; 438504; 440568; 441259; 443740; 442103; 443572; 441124; 425425; 423765; 423504; 423078; 423953; 420735; 440421; 440417; 418718; 423227; 424000; 424001; 418716; 446040; 422063; 441561; 443015; 440202; 442528; 443453; 439877; 423081; 417659; 418739; 423066; 423762; 424188; 434516; 432942; 423385; 423990; 423238; 440970; 423629; 438509; 420731; 425362; 441302; 440347; 443833; 417410; 440125; 427776; 427720; 440302; 427729; 427770; 427790; 423076; 432249; 432212; 423414; 420718; 441742; 414639; 440121; 424555; 417409; 439872; 427805; 419883; 419882; 415478; 426641; 448966; 420720; 421888; 423791; 423045; 423812; 425330; 432306; 441283; 439975; 443496; 443709; 443793; 437375; 437367; 441813; 422347; 422369; 438269; 439973; 439980; 441762; 442860; 440571; 440597; 439638; 441074; 443928; 420191; 440030; 443798; 423269; 423113; 423444; 441103; 442926; 439485; 421842; 439385; 423351; 438429; 423626; 417262; 438321; 440311; 440132; 444018; 433746; 421771; 448637; 448755; 424879; 418858; 438230; 434691; 417498; 417475; 420298; 418977; 426027; 426038; 426322; 425630; 423723; 435108; 433279; 432184; 432214; 422091; 432369; 420982; 423126; 422125; 439152; 444102; 449298; 433732; 444416; 425267; 433784; 433748; 421283; 439188; 433376; 433687; 448402; 441869; 425950; 425549; 432588; 442996; 420292; 433240; 433497; 439503; 442048; 425504; 426001; 433421; 423727; 438225; 423148; 423158; 419406; 422058; 422019; 417270; 437892; 437884; 423084; 421867; 423052; 423253; 423251; 423151; 421875; 441755; 424006; 424007; 423373; 435316; 420748; 423509; 420747; 423194; 421915; 421914; 420878; 423926; 448617; 445351; 423758; 421806; 423136; 448519; 423432; 420437; 420422; 420438; 436049; 436052; 436053; 436054; 421614; 421616; 421613; 450063; 413019; 422845; 440081; 444021; 441172; 440428; 438276; 440480; 440487; 440510; 443964; 439465; 440345; 425647; 439065; 418982; 434783; 439623; 442194; 433801; 425370; 440042; 440091; 440115; 443882; 423529; 418005; 414011; 439196; 442220; 415142; 421962; 419569; 417528; 423447; 427609; 427577; 427599; 427615; 427543; 419697; 427505; 444786; 430327; 427484; 444613; 428777; 443207; 423735; 44899

6;415491;425667;418314;444244;422820;422910;422807;422603;422604;422607;414531;414532;422804;415512;415492;419876;421883;417554;419786;419776;419848;418432;421711;419765;422833;417540;417545;417601;417603;424480;424548;417801;417541;422776;438784;419849;426751;418709;418685;424021;423258;436200;424192;433817;418149;425289;433900;438599;414529;414534;422949;423803;425350;440004;417346;449163;449158;449028;448227;449153;449149;449122;427718;448361;427600;424618;417696;417771;417568;424558;417548;424518;424564;424520;417653;424438;424556;424445;424470;417544;417750;424381;424624;424492;424401;424437;424448;424599;424519;424522;424523;424524;417716;417838;417864;424441;424427;424446;424382;424482;424493;424596;417772;417557;424606;424521;417607;417558;420743;423516;422522;415484;437243;422808;415527;422905;422869;422839;419521;428376;422606;422587;422627;421301;439120;425732;425734;425772;438845;425727;425736;425773;425774;425776;433647;422097;432223;448350;425451;433896;433806;433843;444415;433962;440359;448375;444361;433478;442214;441083;439902;438378;440185;440246;425341;425308;425317;424009;449021;449015;417522;417246;433228;432334;423062;423173;427712;423611;418722;417975;445674;445412;445408;446794;419773;416515;416516;415470;421425;421633;450136;422673;438896;413016;422736;422684;422834;422816;422818;422821;450059;422765;443742;432675;422734;439431;433747;438372;443626;443335;423676;440376;425294;417300;438316;432351;424104;430939;422832;427161;450023;418060;437587;448352;426024;425813;433323;425754;425775;448201;438842;433595;433308;433321;433561;425677;434483;422809;445453;415486;414468;422726;433234;433250;425922;425867;425255;441416;438928;439085;439048;425707;432870;425669;425737;425708;439140;425768;425696;425689;425852;439116;425851;439046;448967;425668;439049;426013;426014;425968;425949;425892;439082;421221;437895;434485;420692;422353;438531;433942;423379;423734;419658;442276;443094;449329;425489;425290;425053;418583;425764;426957;445303;423779;440052;445454;432346;432221;446340;432365;446270;422115;432228;423131;423091;418687;418686;417931;450233;447658;419928;417292;439446;420104;427119;424551;424560;423057;442676;432385;425711;448012;425551;430000;430011;425382;444421;438672;429995;432250;423075;443410;444215;419903;419961;422071;448532;417290;417291;440123;446649;448818;419566;427541;423769;414546;421433;444393;447423;447271;447319;447324;447265;414451;426964;422114;420976;437909;420729;423047;421938;421939;417660;417621;417590;417699;424503;424507;424473;424514;417822;417580;424592;424533;417611;417655;417825;424853;422865;428831;422409;423068;430186;417574;417280;416646;428940;417025;424641;417017;427711;425473;440670;425523;440711;425586;425588;443445;440611;440259;439932;439982;441198;448444;425537;425633;425557;425535;433002;416733;420237;445318;441064;439644;423940;417289;432218;432331;439091;439810;445723;432301;445725;445654;448977;421918;432262;446167;432314;445458;419425;419496;417501;417478;449128;415631;443935;439967;422156;420013;419744;448657;416723;419723;418303;441006;417671;423121;419722;419803;441409;441429;420693;440516;423358;437611;417732;417668;417670;427725;427723;422382;438515;427663;416675;417408;448612;448739;448550;437303;414013;442090;416032;420371;420375;420369;447596;417008;417009;422725;420392;420387;417672;436076;418969;424913;428673;436064;420403;410715;410536;410716;411951;406036;411220;410720;411219;406596;406597;416400;418805;434560;416314;412029;414527;414569;414528;417181;419246;418815;417187;417188;419214;419215;419219;419221;419232;419245;419247;419250;414517;414519;417193;419216;417197;410713;411929;428442;425117;419217;416325;419224;437622;428464;449487;410714;417185;414567;413877;419222;408977;416349;416410;421234;413863;421256;413017;413018;437619;447915;416411;437617;428454;430740;430729;418992;437624;447917;428472;406031;427414;419226;427417;427643;413596;413594;427717;421222;445745;435662;447447;447919;437203;447691;426680;449103;423792;425845;422130;425821;437197;437198;437201;447669;417502;417479;419950;419949;419905;426650;426420;420152;432181;432180;439281;439283;433449;440878;439326;439351;433148;439150;439278;433388;433461;439162;439225;433116;433154;433153;439174;439198;433120;425815;4331

50;439178;433440;433453;439322;439303;433143;433169;433078;433081;433415;  
433452;433454;433459;433184;433162;439344;433091;439261;433115;448102;448  
090;448086;447988;443466;439575;433377;439227;433149;432891;439258;439197  
;439255;439161;439305;439189;433077;432892;433125;433188;439251;439241;43  
3178;426021;439310;439317;433133;439173;438359;439331;439324;439219;43923  
8;439666;449319;449321;449323;425877;439307;439308;439183;439144;439145;4  
39147;439207;439213;437011;439671;439665;432898;432885;432868;432873;4331  
96;433129;433155;433223;433236;433242;433255;433257;433262;433261;433070;  
433072;433080;433085;433401;433412;433425;433436;433390;433396;433399;433  
380;433446;442886;433413;433164;433447;433182;439254;433173;433075;449312  
;439333;439347;439234;439235;449318;439319;439338;439312;432813;425919;44  
9322;433147;421460;417777;417798;447816;441020;447907;445767;432283;42921  
0;437568;445118;450190;417869;429218;429219;450239;429004;437575;449674;4  
44175;447906;432539;448218;449248;441333;443616;443029;442649;442700;4427  
73;441043;444221;448561;422062;435474;419820;429197;437572;437580;439248;  
439316;439327;422753;422796;445385;422074;437571;419804;417766;426962;418  
391;417770;429725;446920;422162;437752;432282;445349;429690;430814;430815  
;430817;430793;444626;445369;436853;427296;445370;427302;427298;427294;42  
7295;427304;429698;427303;427297;418371;445373;445352;445362;425171;42829  
4;425373;445367;434803;437806;427131;426899;415457;429203;415454;423428;4  
29688;427731;429676;415700;444216;425825;426580;413574;416743;436731;4367  
25;436727;430649;425822;420343;426883;426890;427352;421212;424415;433855;  
442969;442200;438690;444105;449685;440965;441014;433742;432310;437686;437  
688;441871;444286;433238;425996;433229;433246;433253;433771;425987;433381  
;432883;448216;422854;434007;433870;432788;448909;434954;439682;439724;43  
9720;439721;439683;424630;433734;425440;433783;425428;439807;433484;43861  
9;447983;447990;420323;438319;424569;438363;428481;428482;428480;428485;4  
34725;433689;442864;442277;438355;439681;420583;448577;441797;443470;4428  
14;425281;442097;439876;420567;438658;439528;440034;443114;438541;442874;  
439534;444291;440573;440285;442190;439372;442762;443774;442184;441552;440  
072;444328;433890;448114;438577;433470;442920;441760;441678;439981;442832  
;442535;439875;439604;440608;442526;439492;440267;440239;442139;440077;43  
8492;440022;440108;440268;443020;442124;447798;416676;429235;420565;42923  
6;429231;429232;436724;422404;436719;420568;448037;438385;425353;438468;4  
38416;439470;425640;418311;441752;439589;440560;442809;439628;444007;4384  
82;438292;425679;433842;425283;433233;439905;433934;433888;448033;438667;  
438678;448107;439684;433651;422793;442974;443384;440111;443467;439997;439  
399;443084;433735;433833;433971;425891;433467;438571;433864;433483;448420  
;448438;448015;438736;420569;428917;419886;438684;447779;448001;443386;44  
3074;439393;435155;418580;432358;443429;441564;441305;440621;440853;42685  
8;430074;422426;423434;429172;423043;423039;447015;417427;425925;425952;4  
16730;418548;429308;429473;429499;433636;433658;437000;425916;448161;4164  
67;416468;416475;416476;420314;420321;420444;420446;420448;437519;432277;  
448196;417242;438098;424080;420737;418802;437246;440250;440506;438100;437  
244;414014;417817;417734;417829;418270;440298;417702;438111;438046;437210  
;438068;438054;417868;450197;419925;426721;423392;438030;438109;438093;42  
0350;420354;438060;438076;440189;438080;437953;423473;415702;437282;43722  
5;437283;437961;438061;439722;429459;444834;444825;427697;418516;420566;4  
29683;416746;429564;423783;448619;448734;432961;420200;417781;417738;4203  
17;420453;420454;442308;440304;443398;432859;418306;437285;417235;422838;  
422810;422760;422766;414552;414564;422576;422659;422674;422583;422593;422  
721;422797;422812;422823;422825;422898;422798;422799;422588;422657;433417  
;413584;415496;415463;414433;414423;414439;414446;415514;415523;415529;41  
5533;415502;414435;417295;414643;417230;440541;435723;417684;417769;41784  
0;417688;417794;415483;415467;425777;418983;437204;437251;437250;437247;4  
37230;420902;437248;420899;415498;414429;417828;417834;417644;440551;4178  
70;417767;417862;445427;448530;448779;448533;448500;428862;428869;428872;  
429117;428865;428866;428867;444727;413647;437963;437218;415475;416479;417

287;422134;432265;419962;447595;438045;438120;438122;438123;438121;438124  
;438128;438125;438127;438099;438126;438117;438087;438066;438012;438063;43  
8039;417681;422591;422785;422784;417756;429677;437679;444939;425961;41548  
2;417728;417859;429685;417867;417852;417757;417795;417714;424410;417802;4  
17713;417679;424434;424433;424468;424384;424476;424412;424423;424426;4245  
27;424595;424411;424443;424580;417632;424467;424536;417566;417876;417785;  
417250;414641;414554;425767;429410;415468;415511;415530;415497;414565;418  
729;417747;417861;417252;417293;417232;427003;417863;444084;425656;422561  
;413604;417986;450237;429038;437277;425228;426886;426885;426891;426581;43  
0111;417278;424038;440295;448511;448784;417234;417256;422595;432716;42579  
5;441665;439401;439598;440178;440491;440494;440532;440539;414556;413571;4  
14464;414448;414469;414434;414424;414438;414440;414444;414442;423835;4288  
25;424031;417279;414471;414566;414449;414454;414463;425847;417343;438883;  
424257;417014;447657;420065;420066;414560;414557;414545;414561;414562;422  
698;422699;422647;422651;422666;422915;422852;422815;422817;422771;440214  
;415471;414436;414425;414507;417860;433956;448936;425756;425672;429518;42  
5800;426011;425688;425660;438764;417800;417815;425665;417571;417575;41766  
2;419671;417426;417429;414017;416028;417272;436718;418863;441155;434616;4  
34618;434627;434628;434617;434619;434626;434620;434629;434630;434635;4496  
54;419944;443267;418089;418088;428881;432541;420262;420215;432502;420217;  
432519;420154;421275;428910;436686;430808;448445;430809;448718;441086;433  
868;426626;445761;417265;417307;438561;422748;429523;443404;443105;420723  
;417642;424510;417643;437939;435413;417581;429116;444172;444173;426914;42  
1003;420849;443062;444206;440980;426662;427080;435315;423472;440952;44168  
1;439933;442545;444016;425443;439382;442820;438323;441595;439585;439379;4  
40590;425300;443446;447973;440208;425242;438401;438565;438745;440593;4338  
56;438703;438748;437879;441412;432302;441867;448399;441890;441896;420914;  
418087;444220;418091;444417;438394;443009;418094;423104;439557;416140;437  
346;425248;448014;447978;444363;444360;437663;442032;441313;448047;444452  
;438567;422682;448400;448401;441870;448417;448389;448405;427739;429273;44  
3663;441312;438562;441894;448106;448024;448100;447960;438708;443602;43081  
1;430812;440222;418389;445350;445374;445375;424121;434538;437970;423071;4  
22186;441152;435114;442319;441669;441605;443600;439567;442080;439501;4404  
13;438291;415656;442607;441137;438457;441845;438388;441196;438375;441245;  
438441;444337;413556;433710;446493;448601;448608;441404;425743;433507;439  
930;444199;439706;440170;439076;440867;448144;432273;423177;417538;428874  
;428887;428889;428891;437268;437284;440923;439704;442764;420186;432295;42  
2355;449258;440694;440640;440717;440765;440781;443832;425695;438912;43897  
7;438915;448568;432216;432237;432230;424054;418770;423219;444283;422365;4  
38396;419442;442689;449194;447939;420234;432837;432712;432804;420261;4202  
64;420278;420240;420244;420166;420181;420267;420204;420209;418310;420283;  
420281;420288;420286;420266;441955;448105;443041;417783;417539;424126;444  
280;444281;444293;432549;442481;425575;432967;433798;420213;420199;425761  
;449679;440061;443575;443899;439479;441733;443828;443942;443644;443906;44  
3796;442810;440006;443790;440704;440264;442478;443819;443789;443970;44354  
6;433493;438666;444351;448130;439371;442999;439998;441658;425742;439052;4  
32722;441885;432706;432691;439181;449313;439313;439343;439204;433069;4333  
97;439168;424119;417585;445849;445850;446461;422180;427159;446206;445632;  
448542;448449;448454;448456;448516;448582;448814;423100;448525;448455;448  
460;448521;448825;448816;423175;422094;449325;449328;449324;425904;425888  
;425889;420977;446498;445567;432378;422167;440653;438305;432222;445637;44  
6288;445639;445545;445766;446887;446217;432251;432241;445760;445638;44578  
2;432345;421824;421825;421831;423495;425368;420393;420400;420402;420408;4  
27037;423500;423499;423417;423561;444168;420208;438550;447967;425264;4333  
04;433326;433194;425250;432893;448132;425426;449326;439511;433835;432742;  
448046;444292;421203;434939;448548;426704;444760;448736;448722;448676;448  
593;448620;448765;448686;448691;448688;448646;448630;448702;448745;448758  
;448735;448652;448682;448685;448694;448717;448746;448754;448763;448772;44

8658;448626;448566;448613;448667;448697;448634;448733;448590;448556;448571;448766;448712;448659;448614;448580;448610;448747;427674;427719;433919;429864;446788;429993;448077;425844;427784;427788;444384;442089;447989;429873;418367;439437;427771;444109;418368;430080;430078;430092;430094;430098;430093;430079;430068;430095;430097;430081;430082;427815;427328;427324;430085;430077;430083;430076;430102;430087;430086;430069;427325;430067;427333;430073;430096;427317;427329;427318;427331;427330;427326;427316;427327;427332;427335;427334;427336;420336;420315;420319;420340;416997;424636;417012;420333;447620;448713;448492;420176;449022;420164;449173;436342;448939;440029;419689;442795;420155;432510;420265;432867;448908;420279;420180;419879;448980;432317;448270;449155;448365;449039;449062;448245;421957;426988;425214;416142;448331;448247;448268;448261;449034;449092;449025;448985;448387;448380;449144;448266;448322;448253;448246;448277;448234;449096;449091;449093;448312;448240;448338;448272;435070;419921;419923;447832;416430;420587;448654;420000;423410;420767;449110;437590;421692;431117;448781;442134;441648;448802;441127;449077;448342;449089;449056;449010;449099;433809;432388;432363;446130;422138;449035;433510;443581;433508;430638;423420;420855;425824;420464;441157;443372;443682;443045;448962;423097;423488;421836;421837;423157;448223;432344;423502;423503;423448;441734;443968;442735;442680;442340;440747;442636;440999;444190;444207;449680;444245;449629;449668;433949;433815;433886;442719;433736;449663;449665;449690;441041;444211;423096;420734;422001;423587;439034;439625;416737;418259;449712;449713;438044;438085;438020;438053;438052;438051;438104;438006;438025;437993;438019;438018;438069;438004;438007;438008;438003;438014;437994;438016;438022;43805;438041;438024;438023;437995;438017;419656;438074;438021;438027;438071;438015;438049;438059;438010;438075;437998;438038;437996;437997;438011;438013;438031;419556;419557;450153;434998;434865;448684;449037;433963;432836;430854;429122;429125;429120;419265;415158;416471;416472;420330;420331;418984;420326;425367;420346;420349;420355;420345;420348;437908;435144;447679;420268;448462;448553;447969;433684;448585;437999;418397;420318;448783;442569;447833;430007;420167;420220;441991;442354;420165;418316;432766;418318;432734;420173;420162;420172;442438;432753;432533;442013;442510;420202;420219;420224;420171;420178;420188;442404;448881;448494;449658;437236;414023;415459;437897;421481;421487;450192;430797;430805;442798;433669;444236;444260;444449;447985;438500;434457;446335;433910;433779;444320;433480;433847;433897;433789;433481;433492;433909;438558;433920;434047;435148;435151;435150;435152;429696;429691;429694;442584;430012;448846;438374;439373;440635;443922;440759;440763;429991;429994;429999;430003;430009;417407;417191;417196;429697;429701;437271;427781;449066;448311;448360;448321;448341;450167;430413;417933;450232;420741;427647;427648;427652;427653;439084;444208;415157;443489;417004;441228;439056;418655;420332;433600;420335;420337;420341;426642;419875;419841;427735;429559;445675;432229;432247;420946;442765;433918;439532;441055;432364;422183;420686;420687;425235;433681;427096;441690;443415;427117;422032;442758;440784;448263;445687;448250;432227;421830;418733;445866;446434;437551;425986;440894;430002;430004;433797;437094;429230;417547;435543;448689;448674;448700;419945;419718;439514;433757;438625;433495;433485;433491;426694;426851;419934;438511;443220;429228;422023;425348;440380;442324;442117;442754;418305;442291;419801;426643;448801;445737;448546;420043;442318;433745;413579;413587;419301;419303;424082;440519;419530;417458;425839;425799;424084;437969;437952;447594;430945;420952;423442;448041;438689;448019;438705;433928;433937;433226;422608;418813;447643;423973;444241;445361;421800;445980;432339;445696;439220;437297;439098;442639;421828;434458;434463;434465;434470;434472;434476;434477;434478;434479;434482;434484;434486;447834;434480;447644;437959;445708;432335;432998;441021;441662;439432;433939;443608;440930;440897;439793;439710;439673;425276;441882;441360;423464;448039;423547;449688;444223;448330;448346;448987;449164;448995;448335;448332;448329;441024;446301;445406;446923;432372;445448;445564;432263;432337;432336;432349;444116;419310;421455;419302;4

19305;419309;416697;424629;420129;421448;421452;421453;421486;425234;4331  
42;421807;438664;438713;438746;438709;420023;441428;420002;441397;440993;  
441023;443408;441410;447519;421790;448974;443925;433787;432246;441424;447  
637;421471;421462;421469;421488;421468;420344;449644;449651;449678;449689  
;440958;440964;440966;440975;440984;441010;441015;441022;441038;444233;44  
4263;444091;444210;444122;444159;450101;450113;423413;422123;443865;44884  
4;417993;418018;418002;421464;421479;421480;421499;440719;439947;441754;4  
38362;439404;443625;442049;443427;442529;448134;433602;423956;423449;4234  
40;421769;414012;445300;445302;441422;441436;438240;439918;439874;442622;  
442231;440296;442342;448940;434546;426360;426357;426359;426356;449004;448  
228;448998;449057;449036;449031;448248;448259;423107;419907;444162;423450  
;420773;426740;437257;430614;421963;448242;448945;435072;448961;420320;42  
0425;421869;420714;423159;420157;432850;432622;432458;432578;442357;42673  
5;427110;426711;421792;421870;423480;433865;448097;438707;443392;434029;4  
41070;433891;438687;438720;438740;444353;448088;448011;447971;448066;4481  
03;443402;430609;421920;426889;425229;426358;426970;448264;448950;420730;  
427031;420310;420153;422103;427040;423162;423822;423208;430533;445064;434  
496;434512;429706;429758;429736;429779;429718;429749;428946;441207;448060  
;426684;448486;448465;448820;448451;443904;442732;441602;448527;446464;44  
6636;446442;446222;423873;448624;448708;448760;449129;448280;448283;44539  
2;422095;422168;420940;433389;448214;448213;449200;449201;449199;433176;4  
39243;433117;449238;449229;447409;417015;418651;418661;418664;421198;4389  
66;437685;433768;433792;449669;442674;444213;449715;444196;423833;438978;  
448193;449221;425454;442747;443840;440732;443803;442682;442638;439026;433  
818;442353;424574;433970;433782;442826;442418;442432;448880;432642;441251  
;442064;433811;423836;426918;423753;428490;437267;437239;437263;437280;43  
7205;437206;437289;437269;437256;433877;449265;423525;445213;445217;42007  
5;423747;423806;423171;423905;423737;433953;424154;448083;435154;435145;4  
35153;435149;444242;423167;427135;429022;437912;430433;424957;440803;4485  
94;426896;426894;426897;424969;418704;426679;442742;442757;448082;433776;  
423369;423781;423577;448220;425967;449214;434653;420750;420751;420144;423  
176;423224;423771;413022;421921;418008;416736;445214;445215;425323;445734  
;423129;448049;448035;433875;433826;437875;433791;423246;421904;447330;43  
8544;444342;421804;421803;443360;441202;442834;438311;448170;425335;44159  
1;441556;443587;443494;443113;443436;443607;442845;442573;428895;434461;4  
30103;429447;423651;449136;420187;420194;432517;440319;419434;429053;4323  
77;446347;427758;448068;441781;417509;427789;430021;422126;445589;445387;  
432366;432347;437874;418263;432292;437898;422687;445775;422151;445080;432  
281;434213;426287;426286;433959;444413;448056;448597;448518;448491;448791  
;448487;448803;448482;448507;448776;448485;448810;448531;421472;419387;42  
1477;421474;421450;421451;421473;421475;421476;421478;421496;421497;42149  
8;444078;444075;444076;432224;419802;448251;425804;432206;443454;442914;4  
42562;438692;444365;438563;432328;425359;443846;443871;446309;441375;4483  
14;449151;448374;449001;448279;449150;448809;443707;440779;442669;440703;  
423799;421823;423512;440721;433713;421822;418681;423798;423072;423481;438  
702;443609;424485;417619;417595;441975;424140;420522;425791;425817;425709  
;441000;427300;427301;433872;442257;426671;444256;428732;426670;426674;44  
9157;419853;449662;444108;418004;425460;439368;439428;443024;439000;43364  
8;439006;433544;439160;439228;439249;433656;449209;438923;433327;438944;4  
36384;426772;426934;432244;419763;420688;439214;433185;433190;433082;4334  
03;433104;433170;449224;433455;439314;423540;427022;426960;425969;433785;  
442179;420689;430535;441247;442701;444010;427023;441120;440333;433857;443  
933;442297;438477;440715;444261;443802;441617;443957;428855;436869;423436  
;419515;419987;448707;445377;438177;449080;417428;424383;424517;417608;42  
0141;424045;443229;417297;417244;422102;419307;419306;419308;448785;44877  
4;448541;448450;423346;448504;448549;421982;441703;441019;444141;444147;4  
44146;441051;444192;449681;449720;444262;449630;449722;449702;448564;4218  
17;420744;421818;442833;440126;425271;444193;428354;422541;434640;434683;

437763;437764;437786;420591;448495;448799;448777;448481;443271;443282;443275;443278;438390;438414;448529;425408;429227;418426;419178;434572;423752;414460;423548;423263;421951;414535;414548;437889;438409;441683;442270;426777;426786;426790;426703;426676;426879;426822;428922;437756;442327;436905;420257;443807;438424;438272;442647;423618;435699;445651;432177;445641;445870;446741;432201;448478;440939;448406;418804;446474;446714;443945;441768;439715;446068;423532;432211;446873;445762;446064;446080;446352;445863;432343;432261;448970;430647;436326;448044;448072;448098;448038;448073;426968;419947;443210;424034;433350;437866;447955;423243;438423;443502;441290;423199;423132;421900;423244;449729;425619;448404;441891;432955;441026;441027;441030;444101;441017;433898;448096;438630;438696;443614;423891;442878;441132;443189;419754;434651;448501;448515;448535;443214;422044;422092;442169;441881;441142;441371;448698;448764;424615;424621;430678;430677;430602;430676;430691;423979;439550;425739;433695;433794;438593;442301;438671;447794;447796;449626;444243;441357;429169;445846;421768;423150;444202;449718;449655;449694;449704;449711;444189;442935;420661;438656;448415;432992;432993;422621;444143;438933;418317;420218;425446;439105;441250;426811;419304;448579;440144;441613;441609;441635;438303;448085;442208;433764;441297;441284;443076;441239;425252;448017;439886;444358;447963;447999;449691;444229;444231;444270;423092;440948;439861;419311;420367;420379;420433;438077;421785;435312;421660;420418;420421;420426;420439;417260;442940;442531;448003;444356;442059;423015;437601;418889;418056;417362;436238;417422;423712;418023;417994;418011;418014;418015;418016;445317;414470;415476;447446;435409;425246;436291;436231;425205;443862;438744;444355;432191;440636;442640;445315;445275;445270;445359;445277;445298;450094;422940;445271;445331;445281;421352;429484;412912;450150;421353;445276;420092;437001;437435;437436;445086;445087;427026;419893;421712;444647;421351;421621;445378;421724;413021;436491;429157;418019;418007;427508;418235;433895;432183;445769;439606;420289;420236;433814;433796;423589;444964;449664;444254;417564;420351;420353;424602;424389;424479;440059;440533;433382;433016;445573;444090;423821;448189;449253;438760;422619;444174;440956;444258;444171;449631;441035;443535;421489;421485;421490;449647;444212;441040;449692;449727;449661;449714;449705;444188;444224;444225;440995;449682;449716;449673;440138;44160;442387;448865;432720;448913;448828;441332;441596;441575;442170;43876;439619;443530;441262;439611;433793;425445;438479;433927;433838;438610;438670;444400;433482;433758;438631;433938;438714;444420;448108;438594;432956;447323;440507;440521;441405;420722;420600;435308;437932;430089;448483;424731;424666;440258;418581;417425;442210;444279;438280;439449;443051;422036;436227;420450;414580;432189;446219;446320;446216;432287;422145;416034;428368;442262;443539;444448;441999;448925;445628;445823;446744;432205;432744;439857;440884;444857;443274;448603;448728;424661;421210;421185;443873;442778;418250;448744;427587;427591;426906;436206;436345;436337;447500;447528;444338;438970;448154;425973;433961;420229;441981;441255;420201;447428;425458;435405;435408;435419;425861;444872;433192;433263;434347;447396;447441;447442;438969;438949;438947;438951;438953;438948;438959;438954;438955;438952;438958;448157;433225;430818;448951;448955;418043;439134;432916;430001;447391;417404;430959;447346;447450;447258;447465;429233;434605;445251;427251;437852;438173;421903;423772;444094;441012;444167;429777;418428;426179;420555;438161;444611;424604;435313;437212;437217;438956;417512;413023;434721;447321;438967;421684;438971;438965;447302;448051;428260;419397;444438;444343;447394;447395;425990;435411;419390;429822;423425;433803;441111;426854;447510;423172;421948;415105;427293;449728;445256;448162;434764;438633;444106;444182;444169;449696;444218;447443;432215;422179;446223;437902;439350;442246;449670;441174;443004;433197;433451;439208;439226;432895;432874;426020;439367;433254;429143;448472;448469;448496;448499;421591;415458;418861;427010;438330;441579;421196;443569;444445;417561;441758;424662;417021;417022;418626;417023;437514;446214;432384;446192;445422;423724;443487;443066;419850;432921;448226;449078;432321;432202;419840;426506

;426472;426474;426473;426769;435132;428882;428886;447710;420556;416035;42  
4870;427271;427272;426538;419560;419559;416029;419210;424487;447511;44750  
5;447503;447529;447502;436327;447501;447504;423458;428994;448780;440563;4  
41618;441569;433712;442556;438576;444442;434468;426833;433435;433107;4484  
70;448506;420785;424933;448661;421483;425399;444441;442548;443403;441053;  
443599;443199;448687;448672;448621;448640;423847;444098;444083;440997;441  
042;449706;441047;449660;449666;444181;447802;422492;420521;443223;422079  
;444100;423582;422437;420006;421935;443037;439938;441642;441697;441612;44  
0167;441708;440116;442728;442788;442808;438456;438545;439868;439599;44053  
8;439505;441830;439618;439639;442140;443447;442079;443574;443514;441227;4  
42592;443891;443811;443841;443880;443883;442686;443929;443948;443902;4437  
11;443098;444003;440681;441139;420698;434673;449148;438573;423606;419396;  
438431;438543;449656;444117;442307;443387;443568;441824;433982;433711;419  
517;440257;443772;425340;439396;445353;439949;439988;439900;439911;441588  
;440241;440789;438447;438259;438343;438366;440659;442071;442084;442164;44  
1200;441204;441211;441215;440009;441158;441183;443972;442570;439377;44273  
6;442628;440766;439999;438412;443058;441696;441736;443698;442807;442711;4  
40774;423196;448315;448296;448282;448274;449140;449042;448276;448328;4483  
84;448317;448287;448269;448336;433849;421936;443795;443864;442058;449721;  
449726;449648;424029;444198;421879;421942;415129;445686;445614;446995;445  
688;446475;448458;443718;440612;440260;445417;422166;439630;420807;431089  
;441623;433957;419444;438470;442105;442981;441307;421886;441008;438676;44  
0341;442121;441192;425232;440788;441730;442727;442088;441102;442967;43638  
8;423144;423145;423094;442188;448510;441764;441744;441636;443561;443598;4  
34014;443536;443070;448575;437091;437092;437093;440313;441218;423720;4235  
01;423419;420964;433854;429699;442684;443895;438525;441632;441801;442854;  
427388;442995;441125;425305;443586;442688;442672;425751;437262;420984;437  
096;429870;425687;446949;421868;448591;448572;448635;448567;435047;448596  
;448545;421651;423823;437684;433778;448537;448616;439132;442248;438839;44  
0303;433750;438725;447970;424625;438986;433834;439123;444439;421576;41766  
3;446305;432276;432353;432333;422046;441775;448959;422075;432324;432195;4  
32196;432240;424985;439135;442791;443784;441694;441737;422361;422348;4221  
61;432390;438762;418723;445741;448230;449159;424466;424463;424603;442786;  
443991;448894;440969;444126;418373;446044;422357;417258;444123;423816;449  
725;444434;444375;442984;433752;433706;444088;438905;438891;438916;448198  
;449240;449252;438975;448138;438931;438973;420477;445255;445264;417664;43  
6729;422933;442316;441660;442068;439381;448113;440695;420225;425292;42525  
3;433805;433823;433698;425527;425338;425361;425304;425427;425455;425468;4  
25470;424631;424649;424654;425966;435426;435427;435428;435430;425902;4258  
36;439345;439354;416732;416734;439256;439257;416519;439791;425125;439707;  
439714;425288;425239;418584;432881;444854;433848;419536;433812;433816;429  
549;429507;429353;429341;420912;429414;429425;417464;429408;442407;421191  
;421192;433200;448870;433675;433680;433685;434949;433724;433760;433763;43  
3701;433709;433780;434729;433430;420254;420196;433460;434787;449087;44541  
4;446328;423013;423403;423556;417922;420316;420447;438604;433975;425565;4  
41675;433691;420715;420703;438262;442335;449117;433828;438583;433906;4386  
47;438587;433913;425326;425331;433894;433915;433744;442695;443747;440040;  
439484;438491;437954;423441;427292;431180;431240;420732;448638;443441;423  
508;436265;436803;423493;437232;437249;439224;439299;439191;439430;442823  
;440073;441863;433066;441873;448414;441880;423830;442323;448243;448238;44  
0662;440692;449236;449257;445673;435311;442787;442866;442804;429700;44176  
6;425697;439536;441221;442199;438315;422758;436715;436716;436717;442775;4  
41201;425269;442155;449851;438215;438200;438220;438196;449910;449990;4381  
76;434232;434241;437528;433571;448508;448662;430371;444631;444673;427469;  
427560;447748;435507;444718;434676;447972;448364;434022;443618;441301;441  
587;439627;448547;422376;448965;449667;438277;448902;448896;443218;421783  
;441693;444285;424974;421782;424978;437948;448488;444063;444066;427111;42  
6661;426947;429486;421494;442751;448204;438776;449191;433665;425024;43394

5;433969;426707;427005;418258;448806;448807;448629;448623;448573;427392;4  
48808;448595;448497;425332;433775;439482;443897;448505;436046;420787;4484  
76;427322;448559;429881;420721;448602;425258;449032;443531;443112;439990;  
439487;439867;439442;441578;439882;442954;442066;448607;448751;448651;418  
264;448743;448480;423497;441723;442602;432886;433437;425958;425980;425875  
;433385;439185;433256;433428;432780;429413;448627;419887;448792;448557;44  
8457;428907;430864;429163;448726;448588;434667;448660;448757;428906;43749  
7;448678;448690;448696;448609;448622;448631;448724;448729;448731;448762;4  
48769;435125;437755;448563;448592;427338;427339;428671;430862;428868;4288  
94;428896;437090;428911;428913;428914;428919;428920;429138;429119;429123;  
443182;445231;412972;447609;428852;448669;428863;428864;448645;448770;429  
723;421213;447803;447804;448704;447610;443183;447612;448720;448656;448680  
;448611;448644;448668;448643;448584;448767;448552;448695;448699;448605;44  
8719;448768;448664;448732;448716;436496;421431;450100;444692;430423;43037  
6;428888;428918;448534;445234;433218;445238;448599;436721;436722;420015;4  
19828;448600;448730;449882;422416;428491;417525;424566;443249;427743;4300  
70;443936;440129;419858;425129;425141;430065;420877;443197;419748;419768;  
422757;422849;422901;422754;426648;425360;446042;422031;432299;446047;421  
465;421482;421484;443962;443805;443847;422119;445655;422022;422371;424152  
;421797;423837;423838;423241;421773;444166;423065;423761;421801;423479;42  
3844;437886;449023;437901;449162;449109;449029;423542;423531;432322;43235  
2;428824;445541;427118;420411;420416;432255;418257;442867;443629;441188;4  
20001;437311;437305;444697;415703;422427;428903;445319;415698;415699;4373  
13;429213;424570;429052;449657;450238;445171;422431;422432;423408;420733;  
420774;426954;427020;418708;423074;423073;440981;444163;425251;443219;421  
890;441076;430106;415787;426631;436720;418365;442193;442198;418366;418362  
;418363;418364;444740;449174;448320;448267;449020;448233;449013;448752;42  
2048;419440;441122;441101;442968;421809;420309;443204;448675;420690;42885  
1;448740;423653;442811;442797;438278;439570;439640;438466;423254;438623;4  
23424;424028;439653;424531;424530;424562;423412;440399;440351;425453;4336  
78;433697;442802;439725;438688;433902;434021;444359;440990;426697;440679;  
443988;423278;419988;448633;435124;426669;420441;425769;436630;428252;437  
946;437964;443205;418372;419827;419860;419730;426727;419731;418370;418369  
;422572;424332;417298;437990;417992;417995;418013;418001;416486;415041;44  
0924;417299;413020;434666;442126;442163;433876;447997;438698;448109;44804  
3;438560;444443;448095;438427;442122;439403;443391;441583;438440;441335;4  
39406;423223;423834;437260;443768;423839;423218;417311;423409;430465;4413  
42;442891;443473;443047;447587;441309;433839;441304;439424;439496;439934;  
448971;441399;448973;441427;441379;441691;441380;448804;430110;448520;430  
112;420719;423496;420742;426644;448759;441565;441641;438488;438345;435071  
;436413;448256;444277;419914;445726;423418;419933;423070;443951;442825;44  
3830;439386;446213;421899;440566;439602;423063;423404;439542;449154;44912  
3;449106;449085;449166;449132;449152;448232;448984;434054;449169;448305;4  
48286;449167;448265;449165;449141;449026;448309;448986;448281;448369;4491  
21;449160;448294;449012;448239;449172;449011;449006;423398;449002;442839;  
444492;448710;448756;448671;420328;448727;448663;448670;448625;448636;448  
587;448628;437264;424617;421456;443463;443093;443444;443594;438717;443027  
;444453;442977;448800;444447;447964;439747;440892;435310;433863;433878;43  
3880;444422;447980;438711;438712;433471;425233;438632;423591;434474;43083  
7;434697;434473;437885;437880;438000;432254;434133;427043;434467;434469;4  
37876;437878;434672;418256;443342;439510;435303;430107;442885;448010;4483  
98;441892;434648;434647;445223;435143;439827;424669;446473;439719;449659;  
433755;433767;441104;446992;446626;439687;424494;424567;417567;424390;424  
506;424590;444423;432768;448869;427308;427309;430109;430084;447835;447636  
;447638;447639;447640;447641;447642;447645;447646;447647;447648;447649;44  
7650;447651;447652;447653;423353;423354;439817;432311;435305;415532;43080  
7;447498;430802;448632;439775;447998;438581;444110;432220;446968;446979;4  
46363;446083;436684;441018;444114;444095;444372;439341;439832;448059;4233

28;430088;417733;426892;443280;416431;417796;417813;417826;445321;449890;  
449909;449911;434034;438681;444323;438701;438649;438697;438660;438578;434  
036;440954;433738;438645;434046;438559;433911;433930;444397;438699;448016  
;438621;434045;433469;438644;438557;434049;433487;433844;433884;416428;43  
9664;442771;433916;442729;442759;430464;430468;427313;420652;448794;44879  
5;432178;447725;445220;421946;440864;414549;422902;422855;422951;427715;4  
17390;435417;425270;425268;439821;428939;438112;420399;420404;425371;4422  
24;439476;443613;442236;443888;442574;444348;421454;437333;447789;449839;  
449958;418275;438202;419596;424526;448972;438110;438088;419672;436479;413  
024;437308;438564;443577;433765;441692;442588;442581;443417;438572;438683  
;442524;448064;448021;441788;441778;438496;441637;443023;443046;443631;44  
2819;438519;442869;438722;438628;434038;449043;443234;413997;414021;41402  
2;429217;429223;449710;429222;415701;436104;447617;429200;442829;434662;4  
34348;419264;419266;425052;434360;434362;420033;419895;429221;415456;4236  
44;448725;448750;448714;448655;440699;425280;433666;442912;433494;442671;  
440739;440785;440757;440691;442744;440646;443759;442692;442632;440716;441  
935;448836;448570;423588;448526;420717;449637;441007;441029;441033;447977  
;438476;441177;441223;449320;439329;439353;439205;439244;433141;439166;43  
9190;439357;439164;439195;439336;439359;439304;439229;439358;439320;43936  
0;441645;441749;420716;424858;415455;436370;417551;420377;420405;420410;4  
21201;420190;435406;416744;420197;442506;424529;424537;424597;424535;4199  
35;448498;432179;445595;445594;445585;422107;445945;422157;422132;445630;  
422016;432256;432381;446601;446594;445746;445747;445662;422076;422088;422  
356;445910;445457;446425;422173;446182;446287;422073;422175;432370;422025  
;432380;432239;446025;445571;446634;432284;432268;432264;421004;422143;44  
6199;446285;448788;432548;440676;440795;440802;440645;440758;442157;44275  
6;440791;420784;448681;430674;430694;430698;427055;430569;432481;447461;4  
25830;436723;438371;441872;417803;445074;429678;429673;436926;419438;4438  
58;418273;422934;439209;413555;425674;438913;425790;425783;427458;427441;  
415154;418806;418796;434611;422751;438079;417582;417641;438103;415488;433  
211;422860;422862;422866;422867;422897;422925;422714;422735;422635;422952  
;422605;422625;422629;422632;422616;422697;422795;422960;422569;422942;42  
2668;422662;422935;422722;422693;422692;422859;422863;422864;422870;42289  
0;422892;422876;422879;438096;424405;438056;420082;426904;414530;447760;4  
15462;415518;415520;437966;417743;417837;429457;417706;417823;415535;4195  
50;425120;437642;419551;422702;429424;429434;417622;417804;432313;419691;  
422727;437606;422646;422669;422853;422885;422678;447633;431778;447624;447  
626;447625;447634;447464;441004;423257;447688;420817;430059;430060;449676  
;449698;440989;441016;441036;444253;444214;444155;441045;418313;418629;42  
5484;422110;418925;430917;430925;422112;432307;442745;441864;414559;42957  
9;449812;429675;444458;444462;444475;444478;435056;449724;414586;420061;4  
37596;417222;417032;438081;438663;448111;429537;429550;419393;417493;4174  
70;420179;434985;432777;420243;449299;420210;444595;429340;418981;415156;  
435020;447031;419254;446211;435050;429778;436457;427528;437451;427366;437  
211;420901;417934;427443;417925;436900;418210;418213;418212;418211;428853  
;420125;414016;416031;426893;417572;418797;420420;420435;420586;432232;43  
2466;420233;424254;429568;424248;413593;419562;424342;417556;422425;41840  
2;418403;418385;415640;429287;425779;425809;440432;440460;415646;421781;4  
17485;426296;420025;420024;420026;443313;420648;420753;420758;423119;4368  
52;420074;413591;413566;414443;427748;427772;427804;427677;427656;427657;  
427686;445244;417397;420473;416673;444209;427358;427359;418640;421205;437  
276;416524;429664;429666;429693;429703;436730;414477;426977;436889;436855  
;434372;442675;425132;434962;435017;435054;417972;432802;432812;432825;43  
2570;432644;432620;442372;442390;448841;448827;448867;420159;441942;44195  
2;442502;442358;432732;432727;432790;432602;448874;424372;427693;422438;4  
37858;434656;428876;417529;434491;448463;437221;425311;433885;433940;4253  
10;425312;425313;425314;425315;425434;425287;425236;433846;418842;418846;  
418849;418857;433668;433721;433731;433383;434051;433899;433905;433248;433

730;418839;422930;422711;422707;422794;437292;439080;433967;439063;437291  
;428942;416153;429226;428900;437977;442761;442664;417851;417569;416494;42  
9050;429728;419604;421760;437529;430868;418856;426094;429809;429810;41996  
6;437899;430583;424992;421757;429786;414624;429769;437911;437258;414437;4  
33490;441320;440418;439572;439601;440008;417764;417610;419564;429715;4289  
43;429730;445061;428956;445055;445054;445076;445056;434515;417711;419667;  
422907;422908;437234;437279;444432;433935;433674;439274;425720;425724;425  
309;418834;420636;419255;429732;433088;438974;428954;422400;429207;419582  
;419588;417530;417533;421747;436732;435146;435147;413489;448796;413996;43  
4505;429160;423421;438287;442104;438512;442083;439883;422100;445831;42201  
8;422067;432243;422061;445702;446283;446957;446514;446795;445753;445698;4  
32304;446771;422096;422070;446224;422043;446321;445692;445642;445682;4454  
20;432234;446027;422020;414587;439455;425749;440534;429399;429405;425785;  
425788;435062;424101;423337;432199;432359;422098;432338;432193;432340;435  
384;442663;440626;440218;443706;425698;433688;425827;417026;446589;440169  
;441727;438091;446156;417973;430019;432357;422030;425873;438425;420212;43  
7216;425570;437660;439277;425064;415629;429346;434960;434970;434822;43353  
5;420192;420161;443632;421689;436411;419726;444170;437856;420502;425763;4  
19187;417496;417473;425621;446600;436903;449143;441079;442168;440379;4300  
22;430047;417985;439007;433622;433324;438850;448221;433559;433521;439029;  
439118;439072;449235;449207;448211;448212;433650;438925;438837;439013;439  
041;449215;438775;439130;449231;449228;433597;433340;449237;448206;439027  
;449197;433313;433368;433287;448175;425684;425876;425924;432880;433644;44  
9217;439036;449189;433560;438995;439033;449230;449233;449241;438894;43898  
1;448217;449206;429630;419846;431015;431018;427619;420303;427259;420304;4  
24347;431013;425789;425787;425135;425826;426639;448513;449294;433617;4392  
79;433355;433333;433502;438910;433241;448152;439106;449284;449301;449303;  
439294;439268;439287;449275;449277;449278;449280;449282;449286;449288;433  
126;433302;433398;438806;438830;438831;449190;449195;449196;449176;449188  
;449243;449244;449247;439003;433626;433632;433641;433653;433598;433505;43  
3509;438921;449249;439043;439125;448131;448119;449245;439028;449220;43926  
5;433139;449302;425794;439024;449290;425982;439005;438937;439270;439267;4  
49297;433113;448219;438979;448164;448166;438902;448147;448149;439030;4336  
03;448127;448128;449293;449296;438893;438836;438929;433569;448207;433542;  
433546;448195;433593;433545;433543;433366;433534;439004;449234;439038;449  
276;439275;439276;439269;439282;448197;449223;449192;449250;439271;439273  
;449242;449232;449178;449216;433400;422417;429209;415708;443208;438322;44  
8327;448339;448324;448299;417592;424442;424572;440903;440873;436978;43698  
1;433759;425231;433866;434020;433671;433673;433968;420205;420169;419589;4  
41433;421193;427093;427021;422926;430714;440776;440807;448410;441465;4409  
87;438337;445631;445640;445649;449824;422037;432271;448184;447305;422642;  
425828;445617;432930;444370;425431;433883;433892;433682;442844;442979;441  
784;438462;439504;439574;433683;425437;438434;441547;442309;425433;438505  
;438338;442848;448023;448078;448007;439547;442284;442343;425438;425439;44  
4352;444354;422140;421384;450125;418017;417921;414045;417447;422027;42203  
8;414631;448928;427103;432207;445681;445724;445625;419871;419809;426691;4  
20978;420998;448517;440729;442801;440767;443800;443714;439979;440068;4399  
59;440020;443967;443765;443983;424865;424896;415601;444591;414594;425139;  
442320;435049;432267;419838;420985;445572;432327;422122;445583;422120;421  
011;422054;445462;432194;420820;417027;422718;420804;422185;438984;430046  
;444460;437447;447549;447551;437448;447550;419652;422465;422176;437950;43  
8067;415150;425435;442273;441145;443582;441607;442240;441590;418355;43727  
8;437532;437535;447670;418792;434357;418793;420327;434369;430856;445242;4  
34654;445221;445222;445226;445229;428201;430105;444272;418312;443860;4176  
91;426895;437929;434539;414428;448864;448866;428927;428929;444468;418989;  
417430;447047;447554;417858;449800;418191;426888;421737;434511;434498;417  
982;422377;444481;448142;449213;433347;438941;438892;448183;433372;438754  
;433655;433548;433351;437222;437209;437208;437215;426920;437233;438102;42

6876;437238;437261;437281;446236;446332;423237;423387;417949;430104;43811  
3;417929;423044;436726;417928;439957;417953;435390;417930;448363;444430;4  
39475;439855;438506;439415;442113;420270;433720;443782;444345;441773;4259  
21;439222;439288;439232;424032;417421;420388;417945;417943;429760;433786;  
448993;449135;422780;449138;424626;449142;448260;448235;449003;423507;448  
262;448244;448376;449086;449084;449082;449083;448291;449007;448983;448229  
;448316;449038;448994;438652;447986;448379;449156;448372;449090;448388;43  
8618;448306;448313;449104;448345;448348;444483;447545;447544;428925;42892  
6;420295;424344;420585;416742;449017;448370;437721;435141;441398;422615;4  
22592;429735;421562;430039;430058;430057;449817;435372;436938;436922;4369  
23;430051;436934;436924;449818;436935;449821;417535;417481;415472;422909;  
422724;422602;422586;422913;422691;422626;422597;422695;422706;422686;422  
694;422851;422633;422611;422594;422912;422599;442154;413648;445327;436271  
;436397;432871;433071;417991;417987;417988;417996;418010;418012;417990;44  
5254;436203;436201;436207;425221;425193;436197;436368;436295;419681;42518  
8;425201;425210;425212;420128;436216;436353;436324;436348;436328;444598;4  
44556;425654;425653;425797;425778;425651;425652;425784;425782;425780;4256  
70;425650;425663;425808;425671;416525;429695;447299;442978;444477;423203;  
423202;442794;444232;444249;444269;449703;444201;444204;444197;417831;437  
450;444463;417202;421284;444571;425165;425172;421307;421339;421340;421294  
;436614;427460;427461;427444;427445;425167;444574;421318;417515;423340;42  
9821;427061;430581;430661;450041;419975;419963;419964;426836;426646;43728  
7;446310;449687;444085;449646;444226;444235;447352;447353;448080;447987;4  
48081;444082;449709;444257;444394;433489;440289;440025;438484;438318;4336  
77;433679;439429;440248;438516;438334;440201;439456;440464;440225;437904;  
417228;415642;418702;445268;423102;439592;439588;433772;432954;425449;425  
798;432601;438622;438662;420203;445334;425318;441984;433667;433729;420242  
;425807;427621;415134;448397;420214;448958;441365;449024;448224;432280;41  
7217;444179;441025;440953;445269;433496;425593;444450;433770;425450;42535  
5;441604;425917;420534;420531;420456;423221;445295;415141;417240;416731;4  
41402;426737;430478;418684;423477;423124;432188;426993;420948;423367;4309  
46;428725;435643;417255;425605;424015;420532;442306;425803;448947;445293;  
418099;446501;414526;445280;417589;417754;437877;428931;428932;417231;445  
296;437903;445175;420226;424010;423154;421776;423487;421777;437456;425962  
;423911;441381;422133;420207;422165;433426;423943;418673;417226;420287;42  
5243;420253;414523;424490;435061;420170;420156;417266;423401;445727;41723  
3;420067;417302;417736;417749;417695;422617;422920;422916;422917;422700;4  
22708;434901;417997;417998;417999;418003;440256;415147;417698;417301;4172  
48;416482;430469;429711;421743;414015;417220;438002;438009;438001;438028;  
416144;436468;418378;426527;416143;445684;427129;427150;426933;419967;426  
793;426775;426734;427696;426764;427145;426803;427698;432279;445510;422880  
;444879;422640;435053;424611;447052;444479;447547;445629;432386;436937;43  
2319;438116;435140;428672;428899;428901;420391;421449;435136;429139;43086  
1;429136;429146;429158;430860;429141;429142;429144;429145;429147;429148;4  
29150;429151;429153;429154;429156;442656;443780;424456;424457;417839;4175  
65;424391;424477;424478;424403;424424;417651;417646;424425;417637;418247;  
418251;437135;425375;427098;447032;429844;447030;434709;441167;433585;444  
097;433068;442237;430422;417186;417423;412964;426503;426510;447840;424900  
;424895;424897;424898;424866;435060;419693;441319;438326;443061;418354;44  
8692;433931;448749;448790;433766;442858;443307;443396;425063;450108;43234  
8;418671;445763;421574;421575;449126;448241;445416;444656;437089;422420;4  
22422;436099;428229;448522;412973;428854;417419;420563;421759;445856;4456  
80;437754;448540;427337;428885;416832;417418;434645;434649;434655;431102;  
420080;417983;426414;426415;447845;421281;419901;429755;429716;416658;436  
827;424528;415655;430357;432210;432290;440233;437457;437207;417951;420910  
;448604;448618;423286;423216;423368;423087;428779;420059;447598;417941;41  
7437;420623;417435;417442;417942;447660;429255;447236;437337;435163;43471  
0;435032;420838;425166;418632;418795;421341;433646;420452;445216;435421;4

21204;434889;433499;421447;420854;445311;443262;421508;421753;418649;4173  
34;419185;419186;417337;417339;416754;416747;418422;416752;420620;437351;  
417438;417436;424633;424655;429739;425746;418659;418628;422861;417947;420  
035;429571;418635;427385;418278;448860;432478;432762;442479;423583;418231  
;420844;445272;418230;417946;420083;420250;448907;421641;433584;424652;42  
4647;432864;443310;440946;439848;429211;420846;437354;429797;419180;44330  
8;424650;424644;418647;418648;429753;434502;417527;445057;419578;437338;4  
37339;437356;437352;436412;447245;447246;447607;437769;437782;428890;4484  
79;433407;439246;425899;439159;447727;447692;447694;447697;447702;447709;  
447716;447719;447721;447672;447687;447656;447664;426288;421653;447678;447  
668;447655;414629;428348;447690;434631;447667;447718;420063;416499;443293  
;447613;418417;420619;420605;419170;416745;418423;418424;416756;419182;42  
0624;421504;443118;420046;419830;419867;429874;421738;447707;424459;41778  
8;417819;424422;417737;422414;435429;417526;424993;429793;419598;429766;4  
19593;434503;434497;428944;429773;434492;434507;424642;424640;427351;4186  
57;418645;421187;416749;417534;419580;419568;419579;429762;419570;419563;  
447730;447681;420598;422598;422612;422628;422923;422759;437241;443305;420  
607;445069;421745;443261;418234;415652;421746;436106;415651;420038;420401  
;429724;434506;445060;422398;420055;443291;416493;444969;420039;434493;43  
7357;421512;420044;434487;419977;426702;426806;429775;421932;443265;44327  
0;432332;446609;446496;445735;432374;446031;441663;439014;420064;436456;4  
16751;415705;419976;426900;426901;420397;430701;420611;418427;420424;4204  
27;420429;420430;420436;420440;420409;437350;420395;428352;420368;443301;  
420396;420406;445058;423376;418634;423236;420423;420003;426761;430490;419  
993;415707;429208;429204;420609;415704;429212;415706;429713;429710;420070  
;443804;434632;434624;434621;434623;434633;434634;434622;434625;427394;42  
3377;443288;418281;434489;445072;420749;421956;420370;420432;420434;42037  
2;420373;420382;420390;420380;420381;420384;420389;429741;420386;418412;4  
18414;420618;429746;430473;443286;445071;437358;447597;447599;437194;4351  
56;447239;443048;443542;442612;442547;437341;445070;429782;418217;442330;  
442568;439497;419587;421750;428361;429770;437348;418024;424658;427379;429  
196;418240;421752;428359;437968;437776;426745;419974;445282;421506;437779  
;437778;437783;437775;437780;437773;437777;420040;447251;429740;426946;41  
6750;417333;420407;420431;420358;420385;420845;427370;420851;420852;42039  
4;418630;418656;424664;427350;420415;420398;420030;419756;421207;421214;4  
29214;423375;422424;428945;428949;429742;425062;429745;429796;435443;4500  
48;428828;440161;440047;440080;419980;430545;426907;426932;427002;427060;  
430590;430669;430597;430670;427071;427016;427014;426714;427017;427070;420  
011;420009;420014;426864;426881;427148;426824;426800;430551;430598;430472  
;426717;430659;427069;426917;430695;427074;430484;430655;427058;427076;43  
0580;426919;430486;427062;426910;430658;426922;426921;427068;420010;42380  
9;417730;432371;426682;426802;426789;445786;432342;432204;432252;425900;4  
33073;433464;433112;433193;425862;432875;433123;433137;433249;433406;4334  
33;422128;445755;418388;433364;422129;443095;441827;441315;438747;441748;  
422555;437290;422150;442710;422372;445677;445672;422057;435478;426057;444  
784;450025;417959;427153;430522;419957;419912;419959;419919;427113;426948  
;438890;425705;433361;433498;425704;425759;438329;443668;427457;427440;41  
5136;427157;427072;427125;426995;430532;422664;422704;422705;422665;41982  
9;420294;420803;446647;443978;442657;423883;432298;436836;430038;445915;4  
32362;432238;432208;422160;445433;414456;414441;414525;448344;433012;4256  
28;425526;425573;425644;425645;425487;442397;432354;417227;438094;437941;  
422080;442685;422105;414648;418667;419894;430024;445388;446186;417495;417  
472;420047;423774;445398;442753;440777;440663;442093;441123;439978;417974  
;446623;422109;449198;446483;415435;432376;432356;446193;422082;420949;41  
6026;432360;422181;432192;432182;432245;422041;417940;415537;422083;44569  
1;432308;422127;419453;422158;422064;423675;422375;418116;432368;423630;4  
43701;432367;445697;421008;432288;445619;445552;446455;432355;445916;4466  
12;446643;446050;445553;445887;432235;422154;422159;432217;432236;446014;

442192;443558;443512;418255;437235;423142;424894;421295;421293;427459;42742;427452;427435;425169;421323;421290;427454;427431;427437;427448;427427;425176;425157;421285;427429;425154;428935;425147;425152;425160;425164;425142;421303;421304;421315;421322;421298;425158;425820;430519;447842;424899;430071;438118;440044;440369;440265;443001;439594;439444;416141;448797;423095;423055;449826;442713;442763;438426;443896;443986;443654;444001;440439;413602;436500;436574;444473;421813;423716;421839;414010;420466;420775;420633;438721;438523;439489;423555;449640;444219;414524;425333;440255;423181;414457;421829;423053;423717;423099;423718;420146;419787;419767;419774;420329;420325;420342;421515;414027;417491;440973;444104;441034;444149;444139;441002;444150;444092;444111;444161;426747;440957;440960;440971;440972;440976;440983;440986;441003;441005;441011;441001;441028;441032;444099;444120;444165;444178;444130;444152;417763;417550;417563;418738;445166;414646;440783;438289;447837;416741;426701;419888;425811;425812;419395;422601;422712;442731;430640;445428;419775;419770;419810;416735;429137;428961;428960;427342;418658;417019;429734;435046;417877;420139;420313;437301;417775;417758;434643;434644;428861;413999;444867;420443;437610;417989;420137;416469;416470;425801;447268;415153;415155;418794;417424;417694;424613;424614;418801;417812;417799;424451;417746;424385;424377;424616;417740;417560;424486;417652;429215;420032;417948;417955;429220;443294;447237;447248;447233;447235;447249;447234;447232;447231;435033;447240;425374;428860;428870;428879;433266;430746;430745;430744;430743;435128;424905;424364;424365;418260;448022;444335;443038;441679;443673;441092;425240;443670;443562;442299;442817;442983;443657;422643;422822;420449;418624;425055;434361;434352;424660;427364;424653;417024;417016;419583;421186;417013;424343;415480;414445;422790;450107;450129;422562;420451;429759;420564;437940;420414;426796;420544;420546;420552;420543;420545;420548;420551;420549;420553;420554;420547;420550;426289;428921;415473;415474;415499;422813;422610;422956;437302;437934;422703;415485;427065;422577;422709;421463;422945;422670;422792;422896;422579;422924;422745;427101;427105;447462;417460;449652;427285;444583;437495;443180;428718;437459;437462;437475;437466;437460;437461;437759;437760;437317;437757;437705;437722;422402;419713;424907;437761;437441;422403;422406;437484;437701;428893;428898;443169;437698;437725;437727;450188;445241;411954;420841;410718;410717;407896;431785;416316;407894;413853;437465;420077;417201;428729;427456;427439;425174;421319;421327;421296;421335;417200;417514;421325;421328;421329;421331;421324;421308;421309;425173;427453;427436;425145;421292;425153;444606;436850;444568;415461;415526;414555;416415;420078;416317;416403;410535;419698;418871;431081;421365;450126;428747;427675;427681;416696;419696;450102;426302;421714;444652;408478;404895;407214;407215;434326;428448;428449;416886;411060;427531;418993;413862;413855;426416;436823;426877;426693;444532;436101;426686;426958;426730;430645;430512;435110;421690;445102;445096;418332;424673;437366;437361;437364;437363;437373;437362;424436;417871;417618;417720;417789;417724;417818;424429;417615;417762;424462;417717;417791;417577;429819;426645;426644;417194;418343;417395;427716;417500;417477;449823;436907;449820;449815;449827;421723;419717;434636;419739;444994;419859;419716;419783;419782;419874;419899;419958;419924;419936;419862;419741;419836;419805;427013;434541;416413;419857;427107;419823;419917;427015;426482;430574;427012;426981;418330;418331;447615;437386;436503;417587;417031;426363;426364;426361;424627;447593;428827;444787;444069;427019;426878;420091;418816;424469;421561;430064;434844;434863;450151;420538;419719;418864;419715;417504;419391;421552;419856;419900;422961;422964;418062;419908;430125;438141;434327;430153;429070;417070;417071;435024;445082;417136;430127;434153;430146;417105;450110;430290;434102;434128;417079;434345;427527;450091;427536;434090;430272;413560;434073;434089;434160;434165;434171;434177;434190;434117;434126;434115;417141;417145;417146;430117;417137;417154;417155;417171;430160;430163;430166;417092;430274;417068;417089;434266;434284;434205;434245;434246;434247;434253;434162;417151;430164;430179;434276;434252;426517;418847;434071;434077

; 449869; 434188; 438211; 449925; 434093; 434084; 449984; 434106; 434079; 449960; 449891; 449842; 449932; 449930; 449926; 434100; 449843; 434064; 449896; 434226; 449931; 434105; 444065; 430152; 417170; 416711; 417966; 424180; 429000; 434151; 417144; 417132; 417162; 430134; 430141; 417099; 430201; 417074; 434072; 417124; 430193; 417069; 417134; 430126; 430200; 429010; 434248; 449880; 434212; 437816; 437810; 429008; 429019; 429040; 434197; 434206; 416664; 418047; 418881; 427214; 423008; 416441; 430231; 434070; 416451; 419920; 418903; 430886; 424295; 449897; 449850; 417126; 434302; 434306; 434143; 434279; 417109; 417326; 424181; 429876; 430151; 418046; 444062; 434337; 417172; 430283; 417086; 434127; 417165; 434082; 416464; 434547; 434339; 416726; 444055; 427175; 417449; 417964; 428997; 434304; 434172; 429065; 434113; 429059; 430182; 430181; 434343; 449980; 434163; 434176; 449855; 430135; 434161; 418882; 417175; 434187; 417117; 434233; 434332; 434285; 434254; 434182; 413563; 417115; 416643; 430282; 417116; 429005; 424668; 434120; 414366; 413457; 416455; 430171; 434183; 417110; 434081; 434196; 434116; 417169; 434272; 430281; 413456; 434157; 434167; 434175; 434180; 434189; 430122; 417135; 417164; 430140; 417119; 417122; 417128; 417091; 430273; 430279; 417065; 434264; 434273; 434200; 430291; 434095; 416460; 430142; 417114; 417097; 430286; 434317; 417088; 430123; 417152; 417161; 417106; 417127; 430155; 437829; 444051; 434280; 413653; 417120; 417121; 430178; 417112; 417125; 434238; 434258; 417102; 416461; 417098; 430278; 430288; 417077; 417104; 430287; 430271; 430285; 434159; 434208; 430129; 417367; 438194; 434338; 430189; 430190; 434146; 430954; 416688; 416705; 416448; 422992; 415598; 425148; 427722; 416657; 421272; 437563; 424297; 416450; 418059; 417366; 427218; 416444; 418070; 416687; 430888; 430870; 430894; 416638; 430895; 418870; 430900; 430872; 423022; 417358; 415608; 415624; 415609; 417378; 416650; 430197; 430289; 434219; 430196; 426096; 418884; 416651; 429612; 416684; 418911; 417369; 423003; 418050; 430878; 417129; 424285; 416700; 416679; 417450; 416717; 418943; 418906; 418950; 427174; 434305; 424296; 427252; 427265; 424287; 418887; 418066; 415627; 423005; 430881; 418030; 416666; 416443; 422971; 423007; 424267; 424338; 424329; 424249; 424268; 424266; 424336; 413601; 415613; 424231; 414622; 415614; 424288; 424196; 424219; 424169; 418040; 424323; 418941; 424298; 437861; 429649; 429650; 418082; 422974; 418917; 450016; 450144; 421364; 415617; 413924; 418841; 421317; 449479; 416459; 434966; 428263; 417507; 421334; 418818; 418851; 416702; 416680; 427280; 418931; 422997; 426133; 423016; 415591; 418907; 416641; 418939; 415599; 418866; 418817; 416686; 416690; 416442; 415615; 418927; 415612; 419885; 422965; 416715; 415592; 417327; 422986; 416689; 415626; 428372; 424222; 424228; 416656; 418064; 418901; 417380; 417353; 416433; 416446; 424250; 417348; 424210; 415603; 427195; 429623; 427237; 444518; 427266; 447896; 429021; 430270; 430293; 427226; 430131; 434137; 434716; 426120; 422991; 429068; 416636; 437815; 437817; 437812; 437804; 418187; 424264; 416637; 414592; 416685; 417168; 437824; 416659; 416721; 414363; 416718; 430187; 430133; 416712; 415604; 419781; 413557; 413649; 444601; 418819; 418823; 434913; 434843; 434883; 419392; 429049; 429044; 429046; 429056; 413652; 424179; 429061; 429047; 429057; 429071; 429063; 417960; 418942; 418052; 418186; 418031; 416703; 421687; 426733; 419837; 419758; 419760; 444637; 421707; 416421; 416422; 429815; 418340; 418338; 418342; 418380; 418337; 418812; 418334; 418335; 418336; 418333; 418339; 445322; 436487; 427544; 417203; 440404; 444632; 429073; 437809; 416423; 416417; 414590; 419526; 420086; 415622; 428370; 430150; 430228; 416709; 427182; 422993; 422963; 416463; 430295; 438147; 438148; 424252; 418075; 424232; 424275; 428402; 419779; 419816; 419979; 426763; 426673; 430711; 426663; 418921; 424990; 449870; 417150; 417149; 417148; 417083; 434136; 434316; 449982; 449993; 434257; 449978; 434170; 434088; 434154; 449929; 449877; 449963; 449981; 449962; 449868; 449994; 449889; 449964; 430238; 438207; 449974; 449919; 449995; 434169; 449892; 434068; 430208; 434075; 434239; 449887; 438216; 434342; 438184; 449959; 438219; 438221; 438218; 437576; 424326; 424218; 423027; 418886; 416677; 418873; 418909; 416667; 418930; 418934; 417374; 417503; 417480; 416639; 416466; 430113; 430276; 417163; 430124; 417160; 418071; 415605; 415596; 417075; 417076; 417139; 430176; 430177; 417072; 434289; 417111; 430199; 430198; 424282; 413651; 413650; 417159; 417073; 418905; 437857; 418899; 418029; 418890; 423014; 422982; 414618; 416635; 437843; 444300; 416649; 416720; 422995; 424262; 415611; 417363; 418937; 417356; 416668; 427187; 430889; 422984; 424261; 417381; 418955; 418928; 422999; 416682; 417453; 430119; 417370; 416713; 430204; 430114; 415620; 416694; 43429

9;430280;437805;422968;418830;416453;416439;419513;428382;415602;428381;417448;414595;417354;417344;430118;430257;430137;418935;418074;420536;418944;416424;424220;422988;421548;421549;430892;428378;416692;430890;424223;424226;417360;424258;415621;430933;430877;417355;417350;416701;416722;427208;419711;416669;424243;430938;427249;440055;424279;417377;414596;418868;430867;424247;430934;416418;421297;424289;415606;427203;430904;430883;418940;418038;415616;419524;420628;416644;416663;429045;429072;417113;447592;416683;438159;418948;416728;414368;424284;426129;426131;426130;434108;434069;416654;449961;434199;434251;429598;434096;434313;434265;434215;434091;434336;434214;434287;434250;434201;434323;434346;434211;434225;434334;434328;434256;434335;434204;434259;434286;434145;434308;434298;434244;424269;449883;424213;429628;418922;418945;430184;430188;416710;424209;418908;443253;418938;416714;416665;434186;417375;422962;426102;417081;416447;418055;418077;427220;417085;418888;418078;417371;414364;416456;424292;414367;420008;426672;426798;426828;427774;427777;420007;413562;427769;427672;427678;418079;416662;420028;437822;418910;437813;423025;427206;427178;434288;419263;420806;423506;425725;418936;434543;434135;427193;418958;418956;418957;414593;417365;417349;417456;416652;418034;423004;424198;422973;416454;416440;415607;424175;418952;414597;414617;418867;415610;418877;414620;423012;434125;422990;414621;414369;414365;430211;424276;424240;437864;434097;438151;438162;434263;416514;416681;418061;430167;417133;416437;415619;417093;430209;418872;419870;434067;434085;434223;449928;438185;424308;426082;434270;418883;416435;424241;427177;423017;430918;413487;422989;427204;424230;438143;417100;417095;430292;416462;412970;417101;417347;413486;415600;434109;430887;418069;424173;416436;415594;449844;434087;449973;449991;449997;449904;449905;438193;438217;449927;449864;449972;449902;438203;449906;449856;449983;449845;449861;449867;449992;449903;449913;449863;449866;426667;436847;417147;429041;417130;417351;417368;434185;430202;417118;434249;434594;434595;417087;429039;417082;429055;415595;434184;417066;416445;422975;429066;418949;418912;417361;413455;420029;417096;430259;430174;430214;426441;418782;429064;413458;417140;426512;424852;436068;426437;426446;426452;418775;418776;418780;418783;418786;418787;418788;418789;418790;418791;447846;424871;424889;430165;418774;424849;426540;426537;424848;429020;444455;424863;417103;417107;434112;417153;434315;434086;434140;434080;434076;434207;430175;430180;417174;445172;445173;436047;413928;413931;413925;418113;435631;429875;418865;424856;426426;426451;430262;426438;426439;426440;426442;426443;426445;426447;426449;426450;418771;418772;418773;418777;418778;418779;418781;418784;418785;426448;430265;430232;430239;430223;430170;430268;430234;430225;430172;430212;430249;430168;430221;430216;430162;430245;430161;430248;430169;434066;430173;430213;430215;430222;430219;430267;430250;426453;430253;426436;426444;430210;423033;417364;424191;416727;427179;424893;419262;426421;418820;424851;444593;434132;434134;434178;434114;434119;434156;429028;429060;429069;429032;417108;430277;420879;434236;434269;434202;434227;430191;429054;429058;434193;434192;41756;438188;416465;417158;434111;418341;434179;447900;430294;434118;434129;426513;417142;417143;424286;437531;430275;417028;444058;414619;417167;417157;426111;418892;449956;417173;417123;429025;434282;444054;428995;415541;415542;416419;418855;418854;418821;418825;418829;418843;418848;418852;418853;418822;415584;415588;418826;418840;416473;413890;413892;414378;418995;418244;418996;418997;419000;419001;412459;420107;428822;418999;414379;418998;434568;434567;413711;413523;413854;413750;411926;414691;412978;416372;422523;416368;414690;413791;413697;413761;416335;416350;424360;430722;430725;412982;414663;412983;429093;413691;420100;414380;420099;413746;429082;429083;413751;413748;429084;412979;428458;428462;428830;449480;449483;414938;414935;413887;414937;414936;407893;428470;414940;407071;407073;428471;414689;412980;413858;413749;407976;429075;428476;416885;447911;437620;447912;447913;437615;437613;429173;429167;429164;437609;434704;447020;447920;437612;430841;429170;429171;434705;447908;437603;437607;437604;4291

65;429168;434703;434699;434706;434701;429166;437602;423040;447026;437605;  
406592;405839;406223;411956;447918;413897;421238;414521;418809;408665;408  
666;408667;424355;430741;430724;430728;430731;430733;416366;416319;406030  
;416318;417030;437616;403932;403933;403935;429091;414688;429094;429095;41  
3809;428463;416377;406593;435137;413518;413519;413521;413520;427812;41287  
0;412871;424357;407193;430738;426168;426173;426180;426181;424358;413515;4  
13513;413514;413516;424356;430730;426171;418245;418246;438930;425216;4182  
52;447522;436284;447482;436288;436303;436377;436306;425218;421466;413881;  
449478;449481;414934;413895;433568;426584;425123;433207;425972;426008;417  
924;433375;448215;414577;414578;449246;448209;448199;425948;426007;433367  
;433298;433541;424982;419230;428683;428678;428676;428674;428675;424670;44  
4493;424667;438998;426015;433456;433171;433443;433172;437907;447836;43446  
4;436236;436264;436364;436373;429998;436263;438065;438048;438106;438070;4  
38092;449477;449482;436225;436334;436304;447481;436307;436341;447520;4231  
80;428700;428704;445306;417980;443231;428698;445257;445358;436355;447470;  
426927;445266;445267;419772;423169;447757;421467;419984;419834;408480;412  
873;413856;429092;416339;413876;416323;429854;413729;416042;414941;421241  
;413860;425118;430737;426163;426167;412869;429090;416326;416352;406801;42  
1245;421239;421240;421242;421244;421246;421237;421247;421249;419733;42844  
7;416330;413867;416378;413891;408489;449485;449486;416333;449476;421243;4  
16402;421248;416322;413900;417979;428441;449484;434561;434571;417176;4120  
28;417443;428443;413873;416427;408668;408484;408485;416409;416338;416381;  
406034;416429;416341;426183;426182;426187;434637;447212;436820;436865;437  
139;447173;428331;421554;444588;427732;434897;434896;434887;424854;427100  
;427130;426942;430705;427024;427139;437374;424987;426534;426504;450115;41  
8970;419747;426640;425658;420808;418045;427726;427727;427730;444573;44455  
5;444577;419751;419795;429048;450213;416538;444594;434982;428726;426658;4  
19826;419910;419736;419752;433660;433277;438829;425735;433554;448117;4391  
26;438841;433594;419789;419714;419755;419847;450139;419727;419812;444596;  
436833;419769;419777;419814;419821;419788;450212;419785;419746;419796;434  
103;437455;428314;421291;444566;444569;428285;418869;428341;421286;444603  
;444604;434717;434854;428262;424862;434677;424841;426417;420786;420788;42  
4902;424903;424859;424864;424888;424860;424861;424842;424904;429971;43011  
6;430132;427583;435018;434934;434974;434902;434905;434907;434916;434812;4  
34825;434828;434884;434801;434732;434892;445084;434953;434797;435013;4347  
88;438234;438246;434867;434978;434924;434831;434891;435006;434986;435029;  
434840;434849;434964;434827;435010;435011;434829;434987;435015;435014;434  
925;434971;434969;434967;434855;434961;434904;434731;434882;419904;422415  
;428280;434686;427450;427433;427288;434590;434592;429970;427190;434873;42  
1426;418897;444567;426119;434923;425793;444682;410045;404253;416539;43643  
4;437315;419922;445110;418962;437595;437570;435473;419864;426683;419844;4  
19818;434588;434824;426100;427212;424166;426097;436598;424194;424215;4242  
94;426665;444278;415543;415544;426530;424890;434124;430243;450001;430256;  
430229;434122;434121;430236;430246;430237;430263;430264;434092;434261;430  
235;430240;430242;430244;430247;430255;430224;430233;430258;430266;430205  
;430206;430207;430269;434296;430227;434123;434271;449914;430254;430241;44  
9888;430230;424263;430220;430217;430226;430261;434281;434148;434139;43414  
4;434149;434138;434150;434141;434142;434147;434209;434131;426514;434322;4  
45219;445085;430403;437309;447380;427290;436621;436565;436607;436602;4366  
10;437916;437985;434921;421600;450064;450021;422507;426328;440746;443760;  
429183;437942;418429;418098;439387;438166;425138;437369;437379;437385;437  
381;432389;436325;424167;424174;427240;417847;443236;448171;425706;429182  
;426291;447455;437926;419953;424986;429751;414634;426657;425133;421594;42  
9577;420258;430579;430618;428801;424941;447700;447686;429729;429737;41842  
0;418207;421501;422566;422568;422788;422903;422954;422858;427721;422620;4  
47389;417752;417629;420048;443296;422856;422914;423797;440962;423411;4480  
36;442325;448040;447966;433716;442943;441653;441619;439471;438540;438273;  
440430;440391;439409;438528;438267;444252;449723;449686;441050;433933;433

951;438715;433954;423443;423796;423163;443279;443272;443281;443277;443273  
;443269;443276;420791;420792;424877;427136;421560;418206;418208;418209;42  
0058;417806;422847;422932;417532;429764;429757;421734;421755;419602;41959  
9;417531;429756;429767;419594;419607;429791;429748;419591;429727;427383;4  
28948;417005;419586;419597;424635;418798;420334;420442;418638;427390;4211  
84;417006;418652;421744;419601;429201;420417;434600;434598;434599;434597;  
428774;437785;434596;437784;421349;421350;450134;450098;428789;450085;430  
397;434277;434310;449879;449975;449894;434099;449853;434107;434293;434063  
;434104;434262;434307;434320;434341;434094;434166;434222;434110;434098;43  
4303;434217;434083;434101;434300;434311;424239;423019;424234;423021;43432  
4;434260;434290;430697;447215;447206;424984;426054;422401;422384;420095;4  
36868;447281;428371;431086;431092;420819;430398;447196;447307;447309;4473  
57;447372;447274;447275;447364;447374;447469;437772;437774;435491;427166;  
421333;421320;445077;422463;419651;435395;426159;427275;429812;425151;450  
028;417204;444754;427507;427516;435289;444770;428365;431118;427278;436973  
;437370;418980;447736;434545;419176;447211;429634;430425;437811;422047;41  
7340;443314;438037;418188;448666;435414;444838;444615;420576;435538;44463  
0;417939;437821;427590;427520;445177;445169;445179;437992;439203;433448;4  
37983;420376;420383;420413;415534;415460;415465;415466;415469;415515;4155  
25;425842;425823;420419;420428;437982;434074;419544;430974;435531;447175;  
436802;419522;419523;427462;427446;418184;428805;426515;449987;438212;438  
209;438213;449939;449985;449988;449986;434283;449924;449907;449966;434231  
;434242;434221;434216;434218;434295;430252;434312;430121;449979;449840;43  
8152;430185;434267;450000;418932;438172;438171;438174;434340;438142;43814  
5;434291;434294;438156;434278;430183;434330;434314;430128;416648;427228;4  
17451;426091;417341;427188;438208;430977;416691;415625;449873;449874;4341  
94;416716;422970;422996;418924;437803;417342;437819;437808;418081;429608;  
418923;449852;449881;449885;449954;434191;438190;434301;449884;434152;424  
256;429602;449955;415597;427236;427239;427230;430154;416725;426095;424235  
;429653;426134;437839;429651;418053;424312;424313;426112;423010;418067;42  
4302;424246;424259;422981;424193;418900;424202;424212;424229;423018;42298  
3;430968;424333;424251;422967;430975;424208;430897;416438;427241;430943;4  
18054;426135;427246;430902;424340;422978;418929;418951;416708;426080;4180  
68;423031;427196;424200;427207;427180;427215;416699;424238;437844;424245;  
424331;430928;418913;418032;416719;427216;426079;437842;424305;416707;430  
909;430953;422969;427205;427189;427260;437814;427222;416693;430964;427210  
;427191;416724;429617;429655;430979;427197;430893;427199;429631;430899;43  
0884;437850;437840;437851;424334;437848;430929;427219;443184;427202;42725  
4;427209;438195;449898;438183;438180;438181;438182;438179;449901;438186;4  
38198;449876;434065;449900;434240;449886;449860;430969;430937;427253;4272  
56;427255;424270;422977;424316;427247;449865;449841;449859;449857;449862;  
449858;449918;449917;449920;449915;418904;437853;430931;426093;429637;427  
194;430932;430976;429600;429622;427200;429613;430880;430885;429609;417382  
;422976;426116;424211;418033;423024;424214;424221;422979;429652;417379;42  
6103;418953;418875;426085;429615;437807;430906;424309;437863;424337;42608  
1;417454;430911;423001;423032;424242;418876;429654;430905;427181;424314;4  
29635;429604;427224;427234;427499;421345;426109;416698;416653;424204;4342  
55;418073;424183;418933;417455;416434;416729;424203;426113;424227;414616;  
426106;426125;416647;424178;430910;424310;424205;430873;418880;424184;418  
878;424324;426087;424197;426115;424189;438191;438189;429614;434155;437862  
;430916;438187;424274;449967;449940;430869;422412;427598;427555;414625;42  
9588;421740;435064;421748;435314;435016;437644;443268;447711;450003;42710  
8;424388;421399;435540;435487;435497;444735;419546;429787;419595;425678;4  
21756;444746;430385;428780;428707;447088;436880;435484;447616;422532;4470  
89;436815;427595;437409;427611;437399;437793;438222;434912;450103;418203;  
420588;426317;421378;421630;422519;422534;422546;421635;450061;427547;450  
006;424931;424930;444743;419705;437398;437404;429561;434639;437410;437400  
;437432;437397;437395;437431;437396;437393;437394;450149;437403;420027;43

0353;435513;447905;437401;436998;450015;421603;450019;437794;444661;437871;444773;437788;430411;437553;437421;437408;437792;435510;447331;447332;44708;450066;435488;435407;435410;443256;418979;424961;417976;430035;419806;438062;444620;435502;444679;450026;444622;444698;444681;434935;430850;429121;430361;419704;421730;419906;419960;422649;422744;444663;435509;437918;430536;445108;427749;418109;418097;435031;426321;437270;441895;425257;418361;427279;427795;427799;427802;429303;427761;427700;427692;426122;427673;429990;430871;429380;420818;429996;430006;450009;444552;420907;416495;435544;421721;447889;447890;420301;428788;430378;444667;421435;426508;417977;420812;435363;435389;430056;435358;430062;430054;435362;435359;430055;430061;430053;435369;426519;429178;450038;437820;437405;444728;417761;424983;429843;422459;437923;418967;449819;426469;437559;426089;420051;426295;426044;426049;426025;426294;445291;437922;417773;419766;419750;429784;424368;424404;417742;417805;417562;417685;437956;438115;447072;445294;429534;422732;422741;437988;437913;416678;438224;434684;434690;427102;430610;437790;416506;417779;417865;419764;445290;445283;445286;430951;445117;437825;437789;429989;447174;447177;447168;436861;436877;436838;436886;436834;417722;417787;424398;437921;437928;437770;437781;437424;437422;437423;437425;430025;447303;447273;428384;437132;420809;447680;449830;429043;438301;445043;419931;422141;427506;440090;437980;428366;418396;429271;429460;440378;438205;435447;450177;436887;430879;429272;422524;430394;429269;430936;419762;426068;425144;445105;430923;440712;440147;427184;429624;429611;419388;436622;429545;440109;438437;429968;434373;440063;436885;426137;423948;421507;430914;426136;430901;430957;423030;427217;449804;424981;419518;441726;436917;429618;427172;430960;430972;427227;435002;425918;425121;425124;425126;437213;441932;429264;429266;429268;444875;444890;444891;429270;429276;429280;429281;429282;429283;429299;444866;444820;444823;444827;444829;444836;444837;444839;444840;444576;419535;419537;419538;419539;419540;419543;444592;429509;429513;429514;429567;429582;429501;429505;429352;429355;429357;429372;429374;429377;429378;429385;429386;429368;429369;429395;429396;442370;429316;429323;429337;429343;444908;429428;429474;42976;417457;417463;417465;417466;417467;417468;429406;429407;429439;429450;429451;429466;433224;448834;448877;436975;434931;434950;434811;434853;434881;450117;429616;418926;426126;422543;429409;429344;436632;435030;450147;421624;421602;421404;450163;421686;447388;450008;422536;437253;437223;437229;424207;427261;427263;427262;427257;430920;427245;443797;438233;421367;438237;424311;419520;419666;443185;421430;421419;428404;427163;447102;447774;425128;421683;426083;427242;430962;417373;423000;437854;426099;418057;447117;424317;424182;426101;423006;424330;426098;417359;421705;418218;421429;450045;447766;422494;421606;421619;427250;429290;426687;444349;429274;429275;429382;436807;418041;418044;429641;421546;419183;450127;450137;422515;430965;421370;421685;434945;434685;429646;436804;429383;444848;444826;447454;444831;434744;434745;419670;416523;434607;421300;443295;443315;443297;447720;435476;435493;444741;444767;435539;428923;426884;426887;436997;422636;439037;448158;448163;426051;425692;425760;439101;417830;417598;422966;437288;434586;447193;429636;443300;435697;422547;442281;439966;443266;444707;429560;421503;421502;443787;444618;417856;437656;444880;445101;450004;450069;447775;447791;421595;450090;444653;421726;444731;435512;445098;418408;418386;416502;447790;443215;449938;450121;443235;445107;437564;414642;422911;422738;422755;422764;422680;422895;423476;444719;435482;435284;444696;416753;444742;430395;430383;450052;422498;424244;435517;427225;418919;428804;443217;427490;417338;436996;436999;437015;437661;437027;437029;444841;437639;437023;444963;437026;438231;444859;444894;444900;429478;429462;429570;429311;437633;429310;437030;444852;437636;429566;442923;439422;429508;429530;437006;444928;429470;444892;444899;429529;429572;429578;429300;429302;444911;444961;444967;429465;429468;444926;444957;429327;429461;429565;429292;444942;444853;429589;444855;429317;444895;436988;436989;429312;429326;429296;429313;429535;429452;444817;425703;425757;4

27432;416457;427449;429817;429820;425155;428259;421326;421330;434614;421289;414627;444641;428775;447092;444774;427126;429361;429358;425162;443254;434551;444600;432198;437986;434540;437975;437917;444819;436965;429495;437647;425122;429503;429354;429379;429433;427737;444833;427738;437649;419545;425136;418095;437974;437936;437024;419542;429471;437938;437991;437981;44893;420150;437987;429551;425758;429262;429621;436963;436867;450067;450116;450056;421605;450034;447735;422493;450092;421415;420533;447449;437648;422729;429502;430971;427183;421288;433087;425175;418205;426720;447056;429813;418814;419541;437037;428724;429497;444902;444860;429554;429528;444949;444948;444945;444950;437655;444956;437653;437031;444927;444941;437036;444906;429533;444916;450024;434638;429350;429351;429404;429263;429381;429384;429364;447292;447287;429349;450029;450035;421406;450031;422501;445337;421513;427554;422548;421379;417725;422521;416672;434230;447280;417715;417700;417673;443290;426132;437140;447184;429184;437658;439718;429342;426774;426677;426827;426123;426689;426813;426766;426770;426812;426698;426771;434753;419951;426805;426756;427073;437515;427620;436464;435444;437517;435442;418954;427267;430874;430912;424186;427192;429603;437860;424341;434158;434195;447296;437643;418352;437979;435412;443973;437657;419549;429516;438101;450097;421611;421607;447793;450096;443202;430408;450027;420057;437382;437383;421511;414635;414636;418239;437550;437569;421398;447771;450055;417850;450033;436962;450072;422559;450077;422504;422511;437683;421612;450022;424418;437556;422540;421427;421405;422495;447768;437919;422539;450039;45007;444898;416511;450099;422549;422505;426316;426323;450005;450123;450010;450012;422558;421617;447795;447786;437583;425127;427151;447163;441136;440605;442225;442272;442665;443783;443752;443757;443834;447785;417505;429356;430958;436854;426460;427258;443186;427173;426070;430942;426076;437562;429387;427277;419394;427276;422544;447361;447301;447408;447293;447295;447285;447750;417330;437220;430338;421761;416660;437949;418975;419757;429520;449831;420625;445154;447219;447210;447205;429632;437859;437927;437237;437914;437924;437881;447096;426325;443299;426324;436842;449806;420822;436042;435470;435461;423028;435466;450182;418036;428335;434965;435012;434839;434890;436953;436956;417376;436825;436952;436959;434609;434885;436950;445138;445140;445128;445136;445144;445121;435460;445145;445139;418893;437542;445149;445162;445147;435469;435458;445129;434526;434530;445130;445148;445132;437765;437768;437767;437766;435451;434928;434955;435022;435007;435468;447588;447589;435037;436942;435034;435039;424868;450175;445143;444699;426627;435453;435467;434517;450184;424940;435368;430050;435462;445131;445127;450231;445122;445078;438235;434938;434718;434918;434997;434780;434846;422987;434851;430041;430044;445155;434975;436943;435546;418042;444793;434888;435003;434807;435005;450174;436948;435465;426628;447887;447888;447893;447892;447891;447895;447894;450178;450181;435570;435579;435556;435557;435559;435565;435567;435568;424278;434527;434519;434518;435569;435555;435560;435566;435042;434946;449998;426557;418028;449801;417971;430048;420814;449805;420815;449802;435353;420824;449822;421563;449825;447116;426526;426536;426509;426549;426516;426543;426545;426523;426521;426500;426535;426505;426520;426522;426501;436045;426485;426541;426435;426518;426524;426531;426532;426533;426556;435036;435043;435038;435552;435553;435554;435574;435575;435573;435441;434832;418902;435041;435044;436470;435551;435558;435576;435577;435578;435563;435562;435572;435561;436504;437831;437830;417345;430940;430891;430948;430970;430949;429610;426062;426064;437835;437833;430952;426074;424176;426831;430955;429601;418037;424315;426058;418072;426061;426077;424322;424321;424307;416661;424327;424318;444579;434973;436623;426127;424225;424354;437828;437826;426059;422972;437837;425146;427170;426066;444605;437838;437832;426063;437836;417984;427171;426072;436821;430601;424989;430947;424319;426073;426067;436876;418845;434608;426065;427169;430028;429042;420825;426069;426060;449816;436930;436925;436921;449837;428992;449921;449923;449922;449989;438204;449854;427622;437516;429037;429027;445181;42903;449810;417932;429009;445146;435356;435471;437378;427284;427283;418051;

445159;435001;418049;427287;434917;434593;434943;449835;449836;435449;417970;434850;434726;434727;434940;434920;427274;434861;418838;434948;434908;434926;434714;434847;434879;434856;434857;434870;444523;450105;450043;421627;436946;436954;434988;434911;428286;417936;427455;427438;434610;445083;436914;430604;436120;430690;430696;430708;430605;430623;430043;430042;436931;420810;420811;430559;435564;420823;445125;434899;437546;435448;420813;435550;450185;434977;435023;435000;434936;434898;435446;445124;445126;445157;435459;445153;445141;435571;435445;435464;436939;436958;436944;436949;436957;436947;436945;421312;434833;445137;437541;445123;445161;445156;435450;434956;435019;434900;434976;421316;434909;434995;434996;434860;437547;445151;445135;450176;450180;445152;436044;435035;445134;434972;435454;445133;445120;436819;429174;415649;413572;415159;420322;437989;437920;426290;

Genbank Accession Numbers:

KF430202.1;KY674943.1;KY674942.1;KY674941.1;NC;AY597011.2;DQ415903.1;DQ415896.1;DQ415905.1;DQ415904.1;DQ415910.1;DQ415908.1;DQ415906.1;DQ415907.1;KT779556.1;KT779555.1;KF686344.1;KY983584.1;DQ415900.1;DQ415901.1;DQ415909.1;DQ415914.1;HM034837.1;KF850450.2;KF430196.1;MK167038.1;MH940245.1;AY884001.1;KF686338.1;KY674921.1;DQ415902.1;DQ415911.1;DQ415898.1;DQ339101.1;DQ415912.1;DQ415897.1;DQ415913.1;DQ415899.1;KF686345.1;KF430200.1;KF686340.1;KF686339.1;KF430201.1;KF686341.1;KF430199.1;KF686342.1;KF686343.1;KF686346.1;KT368878.1;KT806054.1;KT806045.1;KT806044.1;KT368868.1;KT368877.1;KT368876.1;KT026456.1;KT026454.1;KT368871.1;KU851863.1;MG011351.2;MG011357.2;MG011356.1;MG011342.2;KX154687.1;MG757601.1;KT806047.1;MF598618.1;KX108946.1;KT225476.2;MF598680.1;MF598604.1;MF598685.1;MF598684.1;MF598646.1;MF598657.1;MN507638.1;MK280984.2;MF598692.1;MF598662.1;MF598633.1;MF598612.1;KX108945.1;MF598691.1;MF598661.1;MF598693.1;MF598607.1;MF598613.1;MF598622.1;MF598701.1;MF598660.1;MF598627.1;MF598625.1;MF598602.1;MF598628.1;MF598666.1;MF598664.1;MF598611.1;MF598620.1;KT806048.1;KY688118.1;KT806051.1;MF598617.1;KT368888.1;MF598616.1;MF598674.1;MF598675.1;MN481967.1;KJ813439.1;MN481969.1;MN481968.1;KM027262.1;KT121574.1;KT121580.1;KT121578.1;KT121581.1;KT121579.1;KT121576.1;KT121575.1;KT121573.1;KT121572.1;KT121577.1;MN481966.1;MN481965.1;MN481964.1;MN481976.1;KF961222.1;KF961221.1;KF600628.1;KJ156934.1;KT368887.1;KT368825.1;KT368855.1;KT368849.1;KT368854.1;KT368853.1;KT368850.1;KT368851.1;KT368857.1;KT368856.1;KT368827.1;KT806055.1;KT368867.1;KT368866.1;KU710265.1;KU710264.1;KT368852.1;KT368845.1;KT368828.1;KT368843.1;KT368844.1;KT368890.1;KT368824.1;MH013216.1;KY689142.1;KT861627.1;KJ156910.1;KJ156874.1;KJ156942.1;KJ156916.1;MF598665.1;MF598678.1;MF598695.1;MF598624.1;MF598663.1;KF600620.1;KF600612.1;KF600630.1;KJ713299.1;KJ361502.1;KF745068.1;KJ361499.1;KJ361501.1;KJ361503.1;KJ361500.1;KY581699.1;KY581698.1;KY581695.1;KY581694.1;KY581696.1;KP209310.1;KY581689.1;KP209308.1;KY581686.1;KY581690.1;KY581688.1;KP209306.1;KP209313.1;KY581692.1;KP209307.1;KY581691.1;KP209311.1;KP209309.1;KY673149.1;KY581700.1;KY581697.1;MF598667.1;MF598681.1;MF598672.1;MF598639.1;MF598636.1;MF598635.1;MF598647.1;KY673148.1;KP719933.1;KX108939.1;KX108941.1;KX108938.1;KX108940.1;KX108942.1;KP719932.1;KP719931.1;KU242424.1;KU242423.1;KY581685.1;KY581684.1;KT156561.1;KJ650297.1;KJ650296.1;KJ650295.1;KY581687.1;KT156560.1;KP209312.1;KP719930.1;KP719928.1;KP719927.1;KX108937.1;KP719929.1;KF600652.1;KJ156869.1;KF600645.1;KF600647.1;KF600632.1;KF186566.1;KF186564.1;KJ156866.1;KF600627.1;KF600644.1;KF600651.1;KF186565.1;KF600634.1;KF186567.1;KM015348.1;KM210278.1;KM210277.1;KJ650098.1;MH259486.1;KT877351.1;KT877350.1;KP223131.1;KJ829365.1;MN481978.1;KM027260.1;MN481975.1;MN481973.1;MN481972.1;KM027258.1;MN481974.1;KM027256.1;KM027261.1;MN481977.1;KM027255.1;MN481970.1;MN481971.1;KM027259.1;MK039553.1;MK052676.1;KY581693.1;KM027257.1;KT861628.1;MK039552.1;KJ713296.1;KY688119.1;KX108944.1;KR011266.1;KR011264.1;KR011263.1;KR011265.1;MH259485.1;KT368875.1;KT368831.1;KT368832.1;KT368829.1;KT368830.1;KJ713295.1;KJ713297.1;KJ713298.1;K

F192507.1;NC;KC164505.2;KC667074.1;KJ156952.1;KF600613.1;KJ156881.1;KJ156944.1;KJ156949.1;KF958702.1;KF917527.1;KJ556336.1;NC;LP963762.1;JX869059.2;KJ614529.1;KC776174.1;KX108943.1;MG596803.1;MG596802.1;MG021452.1;MG021451.1;KJ473821.1;MG987421.1;MG987420.1;MF593268.1;KC869678.4;MK564475.1;MK564474.1;MH734115.1;MH734114.1;MK357909.1;MK357908.1;KU740200.1;MG923466.1;MG923468.1;MG923467.1;KJ477102.1;MK967708.1;KJ477103.2;MG923469.1;MG923471.1;MG923470.1;MG923473.1;MG923472.1;MG923479.1;MG923480.1;MG923478.1;MG923481.1;MG923474.1;MG923477.1;MG923476.1;MG923475.1;MF598621.1;MF598696.1;MF598642.1;MF598637.1;MF598679.1;MF598638.1;MF598644.1;MF598669.1;MF598648.1;MF598650.1;MF598689.1;MF598629.1;MF598656.1;MF598649.1;MF598700.1;MF598673.1;MF598717.1;MF598718.1;MF598713.1;MF598706.1;MF598704.1;MF598703.1;MF598705.1;MF598710.1;MF598599.1;MF598596.1;MF598601.1;MF598610.1;MF598600.1;MF598659.1;MF598716.1;MF598714.1;MF598709.1;MF598715.1;MF598722.1;MF598721.1;MF598720.1;MF598719.1;MF598634.1;KT751244.1;MF598690.1;MF598655.1;MF598605.1;MF598626.1;MF598598.1;MF598699.1;MF598711.1;MF598614.1;MF598671.1;MF598630.1;MF598623.1;MF598640.1;MF598653.1;MF598687.1;MF598658.1;MF598654.1;MF598619.1;MF598651.1;MF598712.1;MF598609.1;MF598683.1;MF598708.1;MF598707.1;MF598702.1;MF598608.1;MF598686.1;MF598631.1;MF598643.1;MF598632.1;MF598688.1;MF598698.1;MF598670.1;MF598677.1;MF598652.1;MF598676.1;MF598645.1;MF598597.1;MF598682.1;MF598641.1;MF598697.1;MF598668.1;MF598606.1;MF598615.1;MF598694.1;MF598595.1;MF598603.1;MF598594.1;KT806050.1;KT368863.1;KT368862.1;KT368865.1;KT368864.1;KT368860.1;KT368861.1;KT368859.1;KT368858.1;KT368835.1;KT368838.1;KT368836.1;KT368848.1;KT368847.1;KT368840.1;KT368846.1;KT368841.1;KT368839.1;KT368837.1;KT368842.1;KT368826.1;KT368834.1;KT368889.1;KT368833.1;KT368879.1;KT368869.1;KU851859.1;KT368882.1;KT368883.1;KT368881.1;KT368880.1;KT368884.1;KT368886.1;KT368885.1;KT368874.1;KT368872.1;KT368873.1;MG011340.1;KX154691.1;MG011346.1;MG011344.1;KX154688.1;KX154685.1;MG011347.1;MG011345.2;KX154690.1;KT026455.1;KT026453.1;MG757597.1;KT806049.1;MG280945.1;MG280944.1;MG912609.1;MG912606.1;MG366882.1;MG912598.1;MG366883.1;MG912596.1;MG366881.1;MG912599.1;MG912602.1;MH310910.1;MG366483.1;MH310911.1;MG912601.1;MG912605.1;MG912595.1;MG912603.1;MG912600.1;MG912604.1;MG912597.1;MG011358.2;MH310909.1;MG757596.1;KU851864.1;MG520076.1;MG520075.1;MG546331.1;MG546330.1;MN481984.1;MN481981.1;MG757594.1;MN481979.1;MN481985.1;MN481986.1;MG757595.1;MN481983.1;MN481982.1;MN481980.1;MG757598.1;MH029552.1;MG757602.1;KU851862.1;MG757599.1;KU851861.1;MG757600.1;MG757603.1;KU233363.1;MF741825.1;KU233364.1;MF000457.1;MF741829.1;MF741830.1;MF000460.1;MF000458.1;MF741833.1;KU233362.1;MF741834.1;MF000459.1;MF741835.1;MF741837.1;MF741836.1;MF741832.1;MF741827.1;MF741828.1;MF741831.1;MF741826.1;MG757593.1;KU851860.1;MH306207.1;KX154692.1;KX154693.1;KX154686.1;MG011354.2;MK129253.1;MG011360.1;MG011361.1;MG011362.1;KX154684.1;MK462252.1;MK462256.1;MK462247.1;MK462244.1;MN723543.1;MN723542.1;MK462245.1;MK462246.1;MK462243.1;MK462250.1;MH822886.1;MN120514.1;MN120513.1;MK462254.1;MK462255.1;MN723544.1;MK462253.1;MN365233.1;MN365232.1;MK483839.1;MK462248.1;MK462249.1;MK462251.1;MH310912.1;MH432120.1;MG470650.1;MH371127.1;MG011355.2;MG011353.2;MG011341.1;MG011352.2;MG011343.1;MG757605.1;MG011359.2;MH395139.1;MH454272.1;MG366880.1;MG912607.1;MG912608.1;KX154694.1;MG757604.1;KX154689.1;MG011348.1;MG011350.1;MG011349.1;KT368870.1;KT806046.1;KY688124.1;KY688120.1;KY688122.1;KY688121.1;KT006149.2;KT868870.1;KT374051.1;KT374050.1;KT036372.1;KT036374.1;KT036373.1;KY688123.1;KT326819.1;KT029139.1;MT387202.1;MK796425.1;KT868867.1;KT868877.1;KT868869.1;KT868876.1;KT868872.1;KT868873.1;KT868868.1;KT868866.1;KT868865.1;KT868871.1;KX034093.1;KT868874.1;KX034099.1;KX034100.1;KX034096.1;KT374053.1;KT374052.1;KX034098.1;KU308549.1;KT374055.1;KT374054.1;KX034094.1;KT374057.1;KT374056.1;KT868875.1;KX034097.1;KX034095.1;KT806052.1;KT806053.1;LC063819.1;KJ645659.1;KU982970.1;KU982969.1;LC063815.1;LC063814.1;LC063816.1;LC063818.1;LC063817.1;KR265830.1;KR265802.1;KJ645690.1;KR265821.1;KJ645692.1;KJ645669.1;KJ645675.1;KJ645671.1;LC063813.1;KF804028.1;LQ410512.1;MM872274.1;MK071621.1;KJ645707.1;KJ645706.1;KJ645691.1;KF650

373.1;MA347648.1;LP731410.1;KF650375.1;KF650374.1;KJ645645.1;LC063812.1;KR265827.1;KJ408801.1;KR265768.1;KR265785.1;KR265770.1;KM189367.2;KR265780.1;KJ645699.1;KJ645667.1;KR265810.1;KR265808.1;KR265777.1;LC063810.1;KR265776.1;KR265775.1;KR265825.1;KR265806.1;KR265805.1;KR265788.1;KR265774.1;KJ645700.1;KR265831.1;KR265766.1;MH013462.1;LC063811.1;KJ645656.1;MH243319.1;MK032692.1;MK032689.1;MK482397.1;MK482396.1;KY963963.1;MK032690.1;MH243318.1;MK032691.1;MH243316.1;KR265844.1;KM975736.1;MA347650.1;LP731412.1;LC063825.1;LC063826.1;LC063824.1;KJ645648.1;KJ645652.1;KJ645660.1;KJ645698.1;KR265807.1;KR265795.1;MK071629.1;MK071628.1;MK071627.1;KR265815.1;KR265796.1;KJ645664.1;KJ645689.1;KJ645680.1;KR265763.1;KR265822.1;KY499261.1;KM392229.1;KR078300.1;KM392230.1;KM392231.1;KM392228.1;KM392227.1;KM39226.1;LC063823.1;KF468754.1;LC063822.1;KJ645654.1;KJ184549.1;KF452323.1;KF650370.1;MA347670.1;LP731469.1;MA347672.1;LP731471.1;MA347673.1;LP731472.1;MA347674.1;LP731473.1;MA347676.1;LP731475.1;MA347675.1;LP731474.1;MA347660.1;LP731459.1;KF650372.1;MA347671.1;LP731470.1;KF650371.1;MA347647.1;LP731409.1;KR265846.1;KF468752.1;KY929406.1;KY929405.1;LC063821.1;LC063820.1;LC063828.1;LC022792.1;LC063846.1;LC063845.1;LC063844.1;KJ645702.1;MA347668.1;LP731467.1;MA347669.1;LP731468.1;MA347655.1;LP731435.1;KT591944.1;MA347658.1;MA347653.1;LP731438.1;LP731415.1;MA347656.1;LP731436.1;MA347677.1;LP731476.1;MA347678.1;LP731477.1;MA347657.1;LP731437.1;MA347664.1;LP731463.1;KT860508.1;MA347654.1;MA347652.1;MA347646.1;LP731416.1;LP731414.1;LP731408.1;MA347666.1;LP731465.1;MA347679.1;LP731478.1;MA347667.1;LP731466.1;MA347659.1;LP731439.1;MA347665.1;LP731464.1;MA347663.1;LP731462.1;MH006958.1;MH006962.1;MH006960.1;KJ645635.1;LQ410514.1;MM872276.1;LQ110721.1;KM975739.1;KM975738.1;LT898445.1;LM645057.1;LM645058.1;LT898447.1;KR003452.1;LT900500.1;LT898416.1;KR011756.1;LT898444.1;LT898425.1;LT898414.1;MN056942.1;MH593900.1;KX289955.1;KY019624.1;KY019623.1;KY111278.1;LT898420.1;LT898408.1;LT898415.1;LT898426.1;LT898439.1;LT900499.1;LT898436.1;LT898435.1;LT898413.1;LT900502.1;LT898441.1;LT898418.1;LT898433.1;LT898440.1;LT898412.1;LT898411.1;LT898438.1;LT898427.1;LT900501.1;KU297956.1;LT898417.1;LT900498.1;LT898430.1;LT898410.1;LT898446.1;LT898423.1;LT898443.1;LT898432.1;LT898409.1;LT898431.1;LT898421.1;KX883635.1;KU847996.1;KR265759.1;KM392232.1;KJ645696.1;KJ645695.1;MK071626.1;MK071631.1;MK071625.1;MK071638.1;MK071637.1;MK071636.1;MK071639.1;MK071630.1;MK071619.1;MK071635.1;MK071633.1;MK071634.1;MK071632.1;MK071620.1;KM975740.1;KM975741.1;MK071624.1;KJ645704.1;MH052681.1;KJ645655.1;KM403155.1;KJ399978.1;KR265760.1;LC063847.1;KJ645649.1;LQ410515.1;MM872277.1;LQ110722.1;KR265761.1;KP688354.1;MK673545.1;KF452322.1;LC063827.1;KJ623926.1;KR873431.1;KR873434.1;KR873435.1;KY825241.1;LY646142.1;KY825240.1;KY825243.1;LY646143.1;KY825242.1;KJ662670.1;MH052689.1;MF281416.1;KJ588064.1;KJ588063.1;KJ588062.1;KR265799.1;KJ645705.1;KJ645658.1;KU982973.1;KU982972.1;KJ645668.1;KJ645676.1;KJ645672.1;KJ645681.1;KJ645682.1;KJ645663.1;MK071623.1;KR265828.1;KR265778.1;KR265834.1;KJ645703.1;KR265826.1;KR265823.1;KJ645685.1;KJ645684.1;KJ645693.1;KR265781.1;LC063833.1;LC063835.1;LC063834.1;KP202365.1;KR265843.1;KR265793.1;KU982971.1;KP403954.1;KR265786.1;MH891586.1;MH891585.1;MH052682.1;MH891587.1;MH891584.1;MH891590.1;MH891589.1;MH052685.1;MH052684.1;MH052688.1;MH006963.1;MH004421.1;MH013464.1;MH013463.1;MH004419.1;KJ645701.1;KJ645640.1;KJ645651.1;KR265833.1;KR265762.1;MG334555.1;MG334554.1;KJ645650.1;KR265782.1;KR265820.1;KR265789.1;KR265779.1;KR265790.1;KU982975.1;KU982977.1;KU982976.1;KF272920.1;MA741913.1;LQ905109.1;LY411681.1;LQ410511.1;LQ068537.1;MM872273.1;LC063836.1;KR265769.1;KP641661.1;KJ645638.1;KF267450.1;KU558702.1;KM052365.1;MH056658.1;MH056657.1;KJ778616.1;KJ645697.1;KJ64542.1;KJ645644.1;KR265845.1;KR265824.1;MA741906.1;LY411674.1;LQ068527.1;LQ410516.1;MM872278.1;KU982966.1;MH004414.1;MH004413.1;MH004412.1;MH013466.1;MH013465.1;MH004420.1;KR265819.1;KR265767.1;KU982968.1;KU982967.1;KJ645639.1;KJ645637.1;KR265812.1;KU569509.1;KR265792.1;MH006959.1;MH006965.1;MH006957.1;MH004416.1;MH004418.1;MH004417.1;MH006964.1;MH004415.1;MH006961.1;KR265797.1;KJ645643.1;MK071622.1;KJ645708.1;KJ778615.1;KR265791.1;KR26

5800.1;KR265772.1;KF468753.1;LC063838.1;LC063839.1;KR265773.1;LC063840.1;LC063843.1;LC063842.1;LC063841.1;KJ645646.1;KM975735.1;MA347661.1;LP731460.1;LQ410513.1;MM872275.1;MA347649.1;LP731411.1;KJ645647.1;KJ645666.1;MF373643.1;KR265818.1;KR265798.1;KJ645687.1;KJ645677.1;KJ645674.1;KJ645678.1;KJ645662.1;KJ645661.1;KU982980.1;KR265814.1;KR265794.1;KR265816.1;KR265771.1;KR265787.1;KJ645679.1;KJ645686.1;KU982974.1;KJ645673.1;KM077139.1;KR265804.1;KJ645688.1;KR265764.1;KR265783.1;KR265813.1;LC063837.1;KR265832.1;KR265811.1;KR265829.1;MH107321.1;MH726371.1;MH061342.1;KY007139.1;MH726370.1;KM242131.1;MH726376.1;KM609205.1;MF782687.1;MF807952.1;MN114121.1;KX058033.1;KX058032.1;KX058031.1;KC196276.1;KR095279.1;KP890336.1;MH726382.1;MH726381.1;KM609203.1;MK841495.1;MK841494.1;MH726379.1;MH726378.1;MH726377.1;MH726367.1;KJ020932.1;KM609206.1;KF760557.2;KJ526096.1;KX580953.1;KJ196348.1;KF840537.1;MH726362.1;JX088695.1;MN037494.1;MF782686.1;MF462814.1;MH726365.1;MH726364.1;MH726363.1;KC210147.1;KM609207.1;MH726366.1;KU975389.1;KJ777678.1;KJ777677.1;MG546687.1;KX066126.1;KT323980.1;MH910099.1;KM609209.1;JN825712.1;KR818833.1;KM609208.1;MH726375.1;MH726374.1;MG837011.1;MH726369.1;MH726368.1;KU558701.1;MH107322.1;MH726380.1;MN594506.1;MH117940.1;KX064280.1;KM609211.1;KM609210.1;KY007140.1;KX812523.1;KY070587.1;MG546689.1;MG837012.1;KX550281.1;MK409659.1;MK409658.1;MK409657.1;MH726383.1;KX812524.1;MK606369.1;MH061340.1;MK644602.1;MK690502.1;MF346935.1;MK862249.1;MH061341.1;MK644605.1;MH581489.1;MK250953.1;MH061343.1;MH061338.1;MH061337.1;MK140814.1;MK140813.1;MK140812.1;MK140811.1;MK702008.1;MF375374.1;MK138516.1;MH061336.1;KY649107.1;KR809885.1;MF807951.1;KX981440.1;KT199103.1;KU252649.1;KX016034.1;KR153326.1;KR153325.1;MH726372.1;KM609213.1;KY793536.1;KM609212.1;MG546690.1;MG546688.1;JQ282909.1;KC140102.1;MK606368.1;KT941120.1;MK644603.1;MH726407.1;MH726406.1;MH726404.1;MH726403.1;MG983755.1;MH726402.1;MK644601.1;MK138353.1;KY928065.1;MH726405.1;MH061339.1;MH708243.1;MF737355.1;KR061458.1;JQ023161.1;JN547228.1;MF577027.1;KU182966.1;MK472067.1;NC;KF430219.1;KY799179.1;NC;KJ473808.1;MN611522.1;NC;EF203064.1;EF203065.1;EF203067.1;EF203066.1;MF094685.1;MF094686.1;MF094687.1;MF094688.1;MH615810.1;MH539766.1;MF769444.1;MF769443.1;MF769416.1;MF094681.1;MF769441.1;MF769417.1;MK651076.1;MF094684.1;MF769418.1;MF769419.1;MG605091.1;MG605090.1;MT199592.1;MT199591.1;MF769424.1;MG557844.1;MK994936.1;MK994937.1;MK994935.1;MK994934.1;MF769425.1;MF769423.1;MF769422.1;MF769421.1;MF769420.1;MF769442.1;MF769440.1;MF769439.1;MF769438.1;MF769435.1;MF769434.1;MF769433.1;MF769432.1;MF769431.1;MF769430.1;MF769429.1;MF769427.1;MF769426.1;MF094683.1;MF769428.1;MF769437.1;MF769436.1;MF094682.1;MH697599.1;MF167434.1;MK977618.1;MF370205.1;MG742313.1;NC;JQ065048.1;NC;JQ065047.1;NC;JQ065049.1;MH532440.1;MG812376.1;MG812375.1;MG812378.1;MG812377.1;NC;KX998969.1;KX118627.1;KU051649.1;MM872326.1;KU051641.1;MM872325.1;KU984334.1;MM872327.1;MN025260.1;KX834352.1;KX834351.1;KX443143.2;LC216915.1;MK572803.1;MK330604.1;MK211169.1;MK355396.1;MK993519.1;MK330605.1;MK005882.1;MF095123.1;KT266822.1;MM872323.1;KY513724.1;MF041982.1;MG242062.1;MN249445.1;MF431743.1;KY293677.1;KY293678.1;MH025762.1;MH025764.1;MH025763.1;MF948005.1;KU981060.1;KU981059.1;MM872322.1;MM872321.1;KU981062.1;KU981061.1;KP757892.1;MM872318.1;KT021234.1;MM872317.1;LC216914.1;KU665558.1;KR131621.1;MM872316.1;MH715491.1;KY065120.1;KY363867.1;MF280390.1;MG832584.1;MH708124.1;MH708125.1;MH708123.1;KP757891.1;MM872319.1;KY363868.1;KJ584355.1;MM872295.1;KR265857.1;MM872294.1;KR265856.1;MM872293.1;KR265865.1;MM872283.1;KR265854.1;MM872285.1;KR265855.1;MM872286.1;KR150443.1;MM872287.1;KJ601779.1;KJ481931.1;MM872284.1;KR265858.1;MM872290.1;KR265853.1;MM872288.1;KJ567050.1;MM872289.1;LC260039.1;LC260040.1;KJ620016.1;MM872291.1;LC260043.1;KT381613.1;MM872292.1;LC260041.1;LC260045.1;LC260038.1;KM820765.1;MM872282.1;KY926512.1;KR265851.1;MM872308.1;KR265864.1;MM872309.1;KJ584358.1;MM872307.1;KX022603.1;MM872306.1;KX022604.1;MM872305.1;KX022605.1;MM872304.1;KX022602.1;MM872303.1;KJ601780.1;KR265863.1;MM872314.1;KJ769231.1;KR265862.1;MM872313.1;KJ462462.1;KJ584356.1;MM872312.1;KR265848.1;MM872310.1;KR265847.1;MM872311.1;KJ584357.1;MM872315.1;LC260042.1;KP98

1395.1;KM012168.1;KY364365.1;MG837131.1;MG837130.1;KJ601778.1;KJ601777.1;KJ584359.1;MM872298.1;KR265861.1;MM872297.1;KR265860.1;MM872296.1;KR265852.1;MM872299.1;KR265859.1;MM872300.1;KR265850.1;MM872302.1;KR265849.1;MM872301.1;LC260044.1;KJ569769.1;KY354364.1;KY354363.1;KY513725.1;JQ065042.2;KP757890.1;MM872324.1;MF642323.1;MF642324.1;MF642325.1;MF642322.1;NC;JQ065043.2;MF431742.1;KT336560.1;MM872320.1;NC;NC;FJ376621.1;FJ376620.1;NC;JQ065044.1;LC364342.1;LC364343.1;LC364344.1;NC;KF793825.1;KF793826.1;KF793824.1;MK359255.1;NC;KX302869.1;KX236006.1;KX236011.1;KX302864.1;KX252784.1;KX252790.1;KX252783.1;KX252785.1;KX252788.1;KX302860.1;KX252777.1;KX364296.1;KX252789.1;KX219791.1;HM245923.1;KX219792.1;KX375805.1;KX259254.1;KX236012.1;MF508703.1;JX840411.1;KU317090.1;KX236003.1;KX252773.1;KJ128295.1;KX219799.1;KY421673.1;KX372250.1;KX236008.1;KF574761.1;KX348115.1;MG197727.1;KX434789.1;KP036505.1;KP118886.1;KX640829.1;KF411041.1;KY407556.1;KY407558.1;KY407557.1;KU361187.1;HQ850618.1;HQ848267.1;KP118894.1;KC119407.1;KC013541.1;MK142676.1;MH924835.1;JX195176.1;KP118890.1;KP118889.1;MK032178.1;MK032177.1;MK032180.1;MK032179.1;MN307884.1;KX077987.1;KJ435283.1;KF411040.1;KY620116.1;KP790146.1;KP790145.1;KP790144.1;MG517474.1;KT946798.1;KP868572.1;KP790143.1;KX236004.1;KX364297.1;KX302870.1;KX252776.1;KX252787.1;KX219800.1;KX236013.1;KX364290.1;KU900742.1;KU900738.1;JF732903.1;KX185058.1;KX259257.1;KX252781.1;KX219795.1;MH020185.1;KX400753.1;KX348117.1;KX236000.1;KX259248.1;KX219793.1;KX247130.1;KX375807.1;KX364291.1;KX275392.1;KX275393.1;KX252786.1;KX302875.1;KC136209.1;KX236014.1;KX247127.1;KX364294.1;KX219798.1;MK032181.1;KX434788.1;KX259256.1;KX252774.1;KX252775.1;KX247128.1;KX247129.1;KX219801.1;KX375806.1;KX259255.1;KX364292.1;KX372249.1;KX302868.1;KX302874.1;KX302871.1;KX302867.1;KX425847.1;KX302873.1;KY421672.1;KX275391.1;KX302865.1;KX302861.1;KX275390.1;KX236015.1;KX364295.1;KX348116.1;KX252780.1;KX364293.1;JX195175.1;KX259252.1;KX389094.1;KX236016.1;MK618759.1;KM586818.1;KF853202.1;KX259253.1;KX259249.1;KX236005.1;KX259251.1;KF663561.1;KT750258.1;KX364299.1;KX302862.1;KX219794.1;KX259250.1;KX236009.1;KX364300.1;KX236002.1;KX236007.1;KX302872.1;KX302863.1;KX236010.1;KX275394.1;KX219796.1;KX219797.1;KX252772.1;KX252778.1;KX252782.1;KX252791.1;KX302866.1;KX375808.1;KX185059.1;KX185056.1;AY338732.1;KX185057.1;KM213963.1;AY319651.1;EU526388.1;KT852992.1;KR608272.1;AY646283.1;KX252779.1;KX364298.1;KX348114.1;KX434790.1;KX236001.1;MK581205.1;KY933090.1;KY933089.1;EU637854.1;MN128088.1;MN128086.1;MG448607.1;JF330898.1;KX266757.1;DQ646405.2;MN128087.1;KU556805.1;KF931628.1;KF460437.1;KU556806.1;KU556807.1;KU556804.1;MK581201.1;MK581200.1;FJ904722.1;DQ001339.1;AY692454.1;NC;M95169.1;AJ311317.1;DQ001338.1;KR902510.1;MK937832.1;MK937828.1;AY641576.1;DQ834384.1;GQ504724.1;KJ425504.1;MH539771.1;AY851295.1;FJ904720.1;MK937830.1;FJ904723.1;MH539772.1;MA765825.1;LY505956.1;LY611929.1;LP994923.2;MM207204.1;MK728875.1;FJ904721.1;KJ435286.1;JF828980.1;JF274479.2;GU393337.1;GU393336.1;MH779859.1;MH779860.1;MH779856.1;MH779857.1;MH779858.1;GU393338.1;GU393334.1;JQ977697.1;MK618758.1;KU900744.1;KU900740.1;KU900739.1;KU900741.1;KU900743.1;JQ977698.1;MF924725.1;MF924724.1;EU022526.1;GQ427175.1;EU022525.1;GQ427173.1;NC;EU095850.1;GQ427176.1;GQ427174.1;LN610099.1;KR822424.1;KR231009.1;FN430415.1;MG021194.1;MH878976.1;MF421320.1;MF421319.1;KP780179.1;JX195178.1;JX195177.1;MH021175.1;KX258195.1;MG913342.1;KY626044.1;KC506155.1;MG738154.1;MN512438.1;MN512435.1;MN512434.1;MN512437.1;MN512436.1;MK878536.1;GU393331.1;FJ904714.1;AY514485.1;FJ904713.1;GU393333.1;FJ904718.1;FJ904717.1;FJ904716.1;FJ904719.1;KF696629.1;KP868573.1;GQ504720.1;EU418976.1;LQ302036.1;MN566147.1;KY776701.1;KY776700.1;EU418975.1;GQ504721.2;GU393332.1;GQ504723.1;GQ504722.1;FJ904715.1;MN599049.1;KJ425485.1;KT736032.1;KP343691.1;KU356856.1;KJ425496.1;MG913343.1;KJ425509.1;KJ425503.1;MK937831.1;KJ425500.1;EU714028.1;KJ435284.1;KJ425511.1;FJ807652.1;KJ425502.1;JF330899.1;KJ425507.1;KJ425491.1;KJ425487.1;KJ425488.1;KJ425505.1;KJ425495.1;KJ425494.1;KJ425510.1;KJ425499.1;KJ425492.1;KJ425512.1;FJ888351.1;KT203557.1;GU393335.1;KJ425501.1;KT736031.1;KJ435285.1;MK071267.1;MG763935.1;JF828981.1;KJ425493.1;KJ425490.1;MK937829

.1;KJ425506.1;KJ425486.1;KJ425498.1;KY805845.1;KY588134.1;KY273667.1;MK93  
7833.1;KY626045.1;KY588135.1;KJ425508.1;KJ425489.1;GQ504725.1;EU817497.1;  
KJ425497.1;KJ135013.1;KP036502.1;KP118885.1;KP118881.1;KP118884.1;KP11888  
7.1;KP118892.1;KP036503.1;KP118882.1;KF377577.1;KP118891.1;KP118893.1;KP0  
36504.1;KP118880.1;KP118888.1;KP118883.1;MK581202.1;MK581204.1;MK581203.1  
;MK581208.1;MK581207.1;KY047602.1;MN262644.1;KY805846.1;MG233398.1;MG7381  
55.1;KT886454.1;MK581206.1;JQ088078.1;FN430414.1;KP662631.1;KX272465.1;KC  
008600.1;JF705860.1;DQ288927.1;MH181793.1;EU714029.1;KF663560.1;MK644086.  
1;JF893452.2;KY799582.1;MK423877.1;MK423876.1;KX721498.1;HM245924.1;MN096  
598.1;KU361188.1;MK574043.1;MK574042.1;KF663559.1;MK217374.1;MK329221.1;M  
K309398.1;MK217373.1;MK217375.1;MK217372.1;KF668605.1;MF882923.1;MN197549  
.1;JX897900.1;KM454473.1;MK204411.1;MK204393.1;JN874561.1;JN874560.1;NC;J  
N874562.1;LC061274.1;LC061273.1;EF446615.1;LC061272.1;KY419106.1;KY419113  
.1;KY419111.1;KY419107.1;KY419109.1;KY419112.1;KY419104.1;KY419110.1;KY41  
9105.1;KY419103.1;KY994645.1;MF083115.1;DQ011855.1;KF530092.1;KY014281.1;  
KF530080.1;KF530072.1;KF530064.1;KF530078.1;KY014282.1;KU131570.1;KY96736  
0.1;MN026165.1;MK327281.1;MF314143.1;KP198611.1;KP198610.1;KF923896.1;KF9  
23906.1;KF530090.1;KF530097.1;KF530074.1;KF530075.1;KF530062.1;KF530059.1  
;KF530066.1;KF530061.1;KF530065.1;KF530073.1;KF530085.1;KF530087.1;KF5300  
93.1;KF530060.1;KF530077.1;KF530086.1;KF530083.1;KF530070.1;KF530081.1;KF  
530068.1;KX344031.1;KX538965.1;KX538977.1;KX538969.1;KX538975.1;KF923897.  
1;KF923903.1;KX538968.1;KX538973.1;KX538974.1;KX538971.1;KX538967.1;MK303  
621.1;MK303623.1;MK303624.1;MK303619.1;MH685718.1;MF374983.2;MF374984.1;M  
H121121.1;KY369907.1;MF374985.2;KY967358.1;MG197723.1;KY369906.1;KY967361  
.1;KY967359.1;KY983585.1;KY983583.1;KY684759.1;KY983588.1;KY369905.1;MN31  
0478.1;MN306053.1;MN306042.1;MN306036.1;MN306041.1;MK303620.1;MG197712.1;  
MG197717.1;MG197716.1;MG197722.1;MG197715.1;MG197710.1;MG197713.1;KF92390  
2.1;KY967356.1;KX538978.1;MK303622.1;KX538979.1;KX538972.1;KX538976.1;KX5  
38966.1;KX538964.1;KF923904.1;MN026164.1;MG977444.1;MG977446.1;MG977450.1  
;MG977448.1;MG977452.1;MG977445.1;MG977447.1;MG977449.1;MG977451.1;KX5389  
70.1;KF923910.1;KF923923.1;KF923924.1;KF923918.1;KF923893.1;KF923922.1;KF  
923925.1;KJ958219.1;KJ958218.1;KF923909.1;KF923916.1;KF923908.1;KF923921.  
1;KF923919.1;KF923911.1;KF923914.1;KF923907.1;KF923894.1;KF923891.1;KF923  
915.1;KF923913.1;KF923920.1;KF923901.1;KF923917.1;KF923912.1;KF923892.1;K  
F923890.1;KY554974.1;KY554975.1;KY674920.1;KY674917.1;KY554972.1;KY554973  
.1;KY674918.1;KF923895.1;KF923886.1;KF923898.1;AY903459.1;KF923887.1;KF92  
3888.1;KF923889.1;MN310476.1;MN306043.1;MK303625.1;MG197709.1;MG197711.1;  
MG197720.1;MG197721.1;MG197718.1;MG197719.1;MG197714.1;JN129835.1;AY90346  
0.1;JN129834.1;KF923905.1;KF923899.1;KF923900.1;KF530099.1;KF530063.1;KF5  
30069.1;KF530088.1;KF530076.1;KF530091.1;KF530071.1;KF530079.1;KF530094.1  
;KF530089.1;KF530082.1;KF530096.1;KF530095.1;KF530067.1;KF530084.1;KF5300  
98.1;AY391777.1;AY585229.1;NC;AY585228.1;FJ938067.1;FJ415324.1;KU558923.1  
;KU558922.1;KU886219.1;FJ425184.1;FJ425186.1;FJ425185.1;FJ425190.1;FJ4251  
89.1;FJ425188.1;FJ938066.1;EF424619.1;FJ425187.1;EF424615.1;MH043953.1;MH  
043952.1;MH043955.1;MH043954.1;EF424621.1;EF424624.1;EF424622.1;EF424623.  
1;LC494172.1;LC494161.1;LC494142.1;LC494144.1;LC494143.1;LC494177.1;LC494  
126.1;LC494158.1;LC494128.1;LC494183.1;LC494188.1;LC494192.1;LC494184.1;L  
C494187.1;LC494186.1;LC494190.1;LC494191.1;LC494185.1;LC494189.1;LC494178  
.1;LC494179.1;LC494153.1;LC494150.1;LC494148.1;LC494151.1;LC494152.1;LC49  
4149.1;LC494147.1;LC494182.1;LC494180.1;LC494181.1;LC494159.1;LC494137.1;  
LC494176.1;LC494175.1;LC494157.1;LC494127.1;LC494146.1;LC494145.1;LC49414  
1.1;LC494155.1;LC494154.1;LC494136.1;LC494135.1;LC494134.1;LC494174.1;LC4  
94139.1;LC494163.1;LC494162.1;LC494164.1;LC494165.1;LC494129.1;LC494168.1  
;LC494171.1;LC494170.1;LC494132.1;LC494131.1;LC494156.1;LC494133.1;LC4941  
30.1;LC494167.1;LC494166.1;LC494169.1;LC494173.1;LC494160.1;LC494140.1;LC  
494138.1;EF424616.1;EF424618.1;EF424617.1;EF424620.1;FJ938065.1;FJ938064.  
1;AF391542.1;NC;DQ915164.2;DQ811784.2;FJ938063.1;MG518518.1;KX982264.1;MG  
757138.1;MG757140.1;MG757139.1;MG757141.1;MG757142.1;KF906251.1;KF906250.

1;KF906249.1;MF593476.1;MN514962.1;MN514967.1;MN514965.1;MN514964.1;MN514966.1;MN514963.1;MH810163.1;AB354579.1;U00735.2;AF220295.1;KX432213.1;NC;MH687975.1;KF294357.1;KM349743.1;NC;KM349744.1;FJ647224.1;AB551247.1;FJ647227.1;FJ647226.1;JX169866.1;JX169867.1;FJ647219.1;FJ647222.1;AF208067.1;NC;FJ884686.1;FJ884687.1;MF618253.1;KF268337.1;KF268338.1;KF268339.1;KP887098.1;MF618252.1;FJ647221.1;FJ647220.1;FJ647218.1;AY700211.1;FJ647225.1;KF268336.1;AF208066.1;AF207902.1;AF201929.1;FJ647223.1;JQ173883.1;GU593319.1;MF416379.1;JF792616.1;NC;JF792617.1;KF294372.1;KF294371.1;KF294370.1;KF430202.1;KY674943.1;KY674942.1;KY674941.1;KF686339.1;KF686340.1;KF430201.1;KF686341.1;KF430199.1;KF686342.1;KF686343.1;KF686346.1;KF686345.1;KF430200.1;KF850450.2;KF430196.1;HM034837.1;DQ415903.1;NC;AY597011.2;DQ415905.1;DQ415904.1;DQ415908.1;DQ415910.1;DQ415906.1;DQ415907.1;DQ415900.1;KT779556.1;KT779555.1;KF686344.1;KY983584.1;DQ415901.1;DQ415909.1;DQ415914.1;DQ415896.1;DQ415898.1;DQ339101.1;DQ415912.1;DQ415897.1;DQ415899.1;DQ415913.1;MK167038.1;DQ415911.1;MH940245.1;AY884001.1;KF686338.1;KY674921.1;DQ415902.1;KU182965.1;KJ473822.1;MH002338.1;MH002337.1;DQ648794.1;MN611519.1;EF065506.1;EF065507.1;NC;EF065505.1;EF065508.1;MH002339.1;MK907287.1;MK907286.1;MK679660.1;NC;KC545383.1;KC545386.1;NC;EF065509.1;MN611520.1;MH002342.1;MH002340.1;MH002341.1;KJ473820.1;EF065510.1;EF065512.1;EF065511.1;MG596802.1;MG596803.1;MG021452.1;MG021451.1;KX442564.1;MG987421.1;MG987420.1;KX442565.1;LC469308.1;KJ473821.1;NC;KX574227.1;MF593268.1;KC869678.4;KT368824.1;KF961221.1;KF961222.1;KF600628.1;KJ156934.1;KT368825.1;KT368887.1;KT368890.1;KT368852.1;KT806055.1;KT368867.1;KT368866.1;KU710265.1;KU710264.1;KT368845.1;KT368828.1;KT368844.1;KT368843.1;KT368857.1;KT368856.1;KT368827.1;KT368855.1;KT368851.1;KT368849.1;KT368854.1;KT368853.1;KT368850.1;MF598665.1;MF598678.1;MF598650.1;MF598629.1;MF598689.1;MF598656.1;MF598653.1;MF598640.1;MF598673.1;MF598634.1;MF598599.1;MF598600.1;MF598610.1;MF598596.1;MF598601.1;MF598713.1;MF598706.1;MF598704.1;MF598703.1;MF598710.1;MF598718.1;MF598705.1;MF598716.1;MF598709.1;MF598714.1;MF598659.1;MF598717.1;MF598630.1;MF598671.1;MF598699.1;MF598711.1;MF598614.1;MF598598.1;MF598626.1;MF598690.1;MF598655.1;MF598605.1;MF598715.1;MF598722.1;MF598721.1;MF598720.1;MF598719.1;KT751244.1;MF598700.1;MF598687.1;MF598658.1;MF598654.1;MF598619.1;KX108939.1;KX108941.1;KX108938.1;KX108940.1;KX108942.1;KP719933.1;KP719932.1;KP719931.1;KU242424.1;KU242423.1;KP209308.1;KY581689.1;KY581686.1;KY581690.1;KY581688.1;KP209313.1;KP209307.1;KY581692.1;KY581691.1;KP209311.1;KP209309.1;KP209306.1;KY581700.1;KY581697.1;KY673149.1;MF598637.1;MF598667.1;MF598681.1;MF598672.1;KY673148.1;MF598647.1;MF598635.1;MF598639.1;MF598636.1;KP209310.1;KY581696.1;KP209312.1;KT156560.1;KY581687.1;KX108937.1;KP719929.1;KP719928.1;KP719927.1;KP719930.1;KT156561.1;KJ650297.1;KJ650295.1;KJ650296.1;KY581684.1;KY581685.1;KJ361502.1;KJ361501.1;KJ361499.1;KF745068.1;KJ361500.1;KJ361503.1;KF600645.1;KF600632.1;KF600647.1;KF186564.1;KJ156866.1;KF600627.1;KF600644.1;KF186566.1;KF600651.1;KF600634.1;KF186565.1;KF186567.1;KJ156869.1;KM015348.1;KM210278.1;KM210277.1;KF600652.1;KF600630.1;KJ713299.1;KY581699.1;KY581698.1;KY581695.1;KY581694.1;MF598621.1;KJ713297.1;KJ713298.1;KJ713296.1;KY688119.1;KR011266.1;KR011264.1;KR011263.1;KR011265.1;KX108944.1;MH259485.1;KT368875.1;KT368831.1;KT368832.1;KT368829.1;KT368830.1;KJ713295.1;MH259486.1;KT877351.1;KT877350.1;KY581693.1;KM027257.1;KT861628.1;MK039552.1;MK039553.1;MK052676.1;MN481975.1;MN481973.1;MN481978.1;KM027260.1;KM027258.1;MN481972.1;MN481971.1;KM027259.1;MN481974.1;MN481977.1;KM027255.1;KM027261.1;KM027256.1;MN481970.1;KJ829365.1;KP223131.1;KJ650098.1;MF598663.1;KF600620.1;KF600612.1;NC;JX869059.2;LP963762.1;LG076105.1;LG076104.1;LG076103.1;KJ614529.1;KC776174.1;KX108943.1;MK564475.1;MK564474.1;MH734115.1;MH734114.1;MK357909.1;MK357908.1;KU740200.1;MG923466.1;MG923468.1;MG923467.1;MK967708.1;KJ477103.2;MG923473.1;MG923472.1;MG923474.1;MG923481.1;MG923477.1;MG923476.1;MG923475.1;MG923479.1;MG923480.1;MG923478.1;MG923469.1;MG923471.1;MG923470.1;KJ477102.1;KF192507.1;NC;KC164505.2;KC667074.1;KF600613.1;KJ156881.1;KJ156944.1;KJ156949.1;KF958702.1;KJ556336.1;KJ156952.1

;MF598644.1;MF598669.1;MF598648.1;MF598642.1;MF598696.1;MF598649.1;MF598638.1;MF598679.1;MF598695.1;MF598624.1;MF598641.1;MF598597.1;MF598682.1;MF598645.1;MF598676.1;MF598670.1;MF598677.1;MF598652.1;MF598697.1;MF598698.1;MF598686.1;MF598668.1;MF598606.1;MH306207.1;MG757593.1;KU851860.1;MN481980.1;MN481982.1;MN481983.1;MN481986.1;MG757595.1;MN481985.1;KU851862.1;MG757602.1;MG757598.1;MH029552.1;MG757603.1;MG757600.1;KU851861.1;MG757599.1;MN481979.1;MG757596.1;MG757594.1;MN481984.1;MN481981.1;KU851864.1;MG520076.1;MG520075.1;MG546331.1;MG546330.1;MF741832.1;MF741827.1;MF741831.1;MF741828.1;MF741826.1;MF741829.1;MF741830.1;MF000460.1;MF000458.1;MF741834.1;MF741833.1;KU233362.1;MF000459.1;MF741835.1;MF741837.1;MF741836.1;KU233363.1;MF741825.1;MF000457.1;KU233364.1;KX154694.1;KX154693.1;KX154692.1;KX154686.1;MG011354.2;MG366880.1;MG912607.1;MG912608.1;MH395139.1;MH454272.1;MG011359.2;KX154684.1;MK129253.1;MH310912.1;MH432120.1;MG757605.1;MG011341.1;MG011343.1;MG011352.2;MG470650.1;MH371127.1;MG011353.2;MG011355.2;MK462251.1;MK462252.1;MK462244.1;MK462246.1;MK462245.1;MK462243.1;MN723542.1;MN723543.1;MK462256.1;MK462247.1;MK462249.1;MH822886.1;MK462254.1;MK462255.1;MN723544.1;MK462253.1;MN120513.1;MN120514.1;MN365233.1;MN365232.1;MK462248.1;MK483839.1;MK462250.1;MG011362.1;MG011360.1;MG011361.1;MG280945.1;MH310909.1;MG280944.1;MH310911.1;MG366483.1;MH310910.1;MG912602.1;MG912603.1;MG912601.1;MG912597.1;MG912609.1;MG912606.1;MG366882.1;MG912598.1;MG366881.1;MG912596.1;MG912599.1;MG366883.1;MG912604.1;MG912600.1;MG912595.1;MG912605.1;MG011358.2;KT368879.1;KT368869.1;KU851859.1;KT368883.1;KT368882.1;KT368881.1;KT368880.1;KT368884.1;KT368886.1;KT368885.1;KT368874.1;KT368872.1;KT368873.1;KT026455.1;KT026453.1;MG757597.1;KT806049.1;MG011340.1;KX154691.1;KX154688.1;MG011346.1;MG011344.1;KX154685.1;MG011345.2;KX154690.1;MG011347.1;KT368826.1;KT368834.1;KT368889.1;KT368833.1;KT368848.1;KT368840.1;KT368841.1;KT368846.1;KT368842.1;KT368839.1;KT368837.1;KT368847.1;KT368838.1;KT368836.1;KT368835.1;KT368863.1;KT368862.1;KT368865.1;KT368864.1;KT368860.1;KT368861.1;KT368858.1;KT368859.1;KT806050.1;KT806053.1;KT806052.1;KT368878.1;KT806054.1;KT806044.1;KT806045.1;MF598628.1;KX108946.1;KT225476.2;MF598604.1;MF598680.1;MF598657.1;MF598685.1;MF598684.1;MF598646.1;MN507638.1;MK280984.2;MF598692.1;MF598662.1;MF598633.1;MF598661.1;MF598691.1;MF598693.1;MF598612.1;KX108945.1;MF598664.1;MF598666.1;MF598613.1;MF598660.1;MF598701.1;MF598622.1;MF598627.1;MF598625.1;MF598607.1;MF598595.1;MF598594.1;MF598603.1;MF598631.1;MF598643.1;MF598688.1;MF598632.1;MF598611.1;MF598615.1;MF598694.1;MF598618.1;MF598602.1;KT806047.1;KT368877.1;KT368876.1;KT368868.1;KT026456.1;KT026454.1;KT368871.1;KU851863.1;KX154687.1;MG011342.2;MG757601.1;MG011348.1;MG011350.1;MG011349.1;KX154689.1;MG757604.1;MG011351.2;MG011357.2;MG011356.1;KT368870.1;KT868870.1;KT036372.1;KT036374.1;KT036373.1;KT374051.1;KT374050.1;KY688123.1;KT006149.2;KT868867.1;KT868877.1;KT868876.1;KT868872.1;KT868871.1;KT868869.1;KT868873.1;KT868868.1;KT868866.1;KT868865.1;KT374055.1;KT374054.1;KU308549.1;KX034099.1;KX034098.1;KX034096.1;KT374053.1;KT374052.1;KT868874.1;KX034100.1;KX034093.1;KX034095.1;KT374057.1;KT374056.1;KT868875.1;KX034094.1;KX034097.1;MK796425.1;KT326819.1;KT029139.1;KT806046.1;KY688124.1;KY688120.1;KY688121.1;KY688122.1;KY688118.1;KT806048.1;MF598617.1;KT806051.1;KT368888.1;MF598674.1;MF598620.1;MF598616.1;MF598651.1;MF598683.1;MF598708.1;MF598707.1;MF598702.1;MF598609.1;MF598623.1;MF598608.1;MF598712.1;MF598675.1;MN481966.1;MN481965.1;MN481964.1;MN481976.1;KT121574.1;KT121578.1;KT121581.1;KT121579.1;KT121580.1;KT121577.1;KT121575.1;KT121573.1;KT121572.1;KT121576.1;MN481967.1;KJ813439.1;MN481969.1;MN481968.1;KM027262.1;KJ156916.1;KJ156942.1;KT861627.1;KJ156910.1;KJ156874.1;MH013216.1;KY689142.1;MG693171.1;MG693172.1;MG693168.1;MG693169.1;NC;KU762338.1;KU762337.1;MK492263.1;MK211379.1;EF065514.1;HM211101.1;HM211099.1;MG762674.1;HM211098.1;HM211100.1;EF065515.1;EF065516.1;MG693170.1;NC;EF065513.1;NC;HQ166910.1;FV537213.1;FV537212.1;FV537211.1;FV537210.1;HI553383.1;HZ038027.1;DI195813.1;FW503166.1;MK211374.1;KP886809.1;KP886808.1;DQ071615.1;KJ473815.1;KY417148.1;KY417147.1;KY417142.1;MK211377.1;MK211375.1;DL008547.1;DJ059785.1;

AY283796.1;AY559094.1;AY559081.1;AY559097.1;AY559083.1;AY559086.1;AY559087.1;AY559093.1;AY559084.1;AY559082.1;AY559095.1;AY559085.1;AY559096.1;AY394979.1;AY394980.1;AY394978.1;JX163924.1;DL008527.1;DJ059765.1;AY502925.1;AY291451.1;AY502926.1;AY502927.1;AY323977.2;DQ898174.1;JX163923.1;JQ316196.1;JN854286.1;AY394850.2;GU553365.1;GU553364.1;GU553363.1;AY321118.1;CS079028.1;AY278491.2;AY283795.1;AY283797.1;AY283794.1;AY559088.1;AY559092.1;AY559089.1;AH013708.2;AY559090.1;AY559091.1;AY283798.2;AY310120.1;AB257344.1;AY461660.1;AY291315.1;HW375992.1;HW269828.1;DL476508.1;CS569493.1;CS254197.1;CQ918584.1;JX163927.1;AY351680.1;NC;DJ045279.1;CS079026.1;CQ918598.1;EA012708.1;CQ918585.1;JX163926.1;AY463060.1;AY463059.1;AY279354.2;AY508724.1;AY772062.1;AY278490.3;AY278488.2;AY595412.1;AY278487.3;AY654624.1;AY278554.2;CS079029.1;EA012709.1;AY864805.1;AY864806.1;AY394990.1;AY395004.1;AY394989.1;AY394992.1;AY394993.1;AY304495.1;DQ640652.1;AY394977.1;AY394988.1;AY394984.1;AY394986.1;AY394995.1;AY394985.1;AY394994.1;AY394981.1;AY278489.2;AY390556.1;AY395003.1;AY394997.1;AY394996.1;AY304486.1;AY304488.1;AY545915.1;AY515512.1;FJ959407.1;AY545916.1;AY545917.1;AY613950.1;AY572038.1;AY545918.1;AY613947.1;AY568539.1;AY613948.1;AY613949.1;AY545919.1;AY686864.1;AY572034.1;AY686863.1;AY545914.1;AY572035.1;AY394983.1;AY394982.1;AY394991.1;AY394987.1;AY278741.1;DJ066921.1;CS079027.1;EA012707.1;DQ497008.1;MK062180.1;MK062182.1;MK062181.1;MK062184.1;MK062183.1;MK062179.1;FJ882930.1;KF514420.1;KF514417.1;KF514416.1;KF514414.1;KF514412.1;KF514411.1;KF514410.1;KF514406.1;KF514405.1;KF514403.1;KF514402.1;KF514401.1;KF514395.1;KF514393.1;KF514391.1;KF514390.1;KF514389.1;JF292922.1;KF514407.1;JX162087.1;FJ882955.1;FJ882929.1;FJ882931.1;FJ882944.1;FJ882954.1;FJ882950.1;FJ882940.1;FJ882956.1;FJ882960.1;FJ882941.1;FJ882926.1;FJ882928.1;FJ882945.1;FJ882948.1;FJ882961.1;FJ882958.1;FJ882952.1;FJ882957.1;JF292914.1;JF292913.1;JF292910.1;JF292909.1;JF292920.1;JF292919.1;JF292918.1;JF292917.1;JF292916.1;JF292912.1;JF292911.1;JF292908.1;JF292907.1;HQ890546.1;HQ890545.1;HQ890544.1;HQ890543.1;HQ890542.1;HQ890541.1;JF292915.1;HQ890535.1;JF292906.1;FJ882953.1;FJ882943.1;JF292902.1;HQ890537.1;HQ890533.1;HQ890530.1;HQ890528.1;HQ890527.1;HQ890526.1;HQ890536.1;HQ890534.1;HQ890529.1;JF292905.1;JF292903.1;JF292904.1;HQ890531.1;HQ890540.1;HQ890539.1;HQ890538.1;HQ890532.1;FJ882959.1;FJ882942.1;FJ882951.1;FJ882962.1;FJ882927.1;FJ882937.1;FJ882933.1;FJ882946.1;FJ882935.1;FJ882949.1;FJ882947.1;JF292921.1;FJ882936.1;FJ882932.1;FJ882939.1;FJ882934.1;FJ882938.1;KF514423.1;KF514422.1;KF514421.1;KF514419.1;KF514418.1;KF514415.1;KF514413.1;KF514409.1;KF514408.1;KF514404.1;KF514400.1;KF514399.1;KF514398.1;KF514397.1;KF514396.1;KF514394.1;KF514392.1;KF514388.1;CQ903009.1;GX394655.1;GP426726.1;EA133160.1;FJ882963.1;AY714217.1;JX163928.1;JX163925.1;AY427439.1;DQ182595.1;AY286320.4;AY297028.1;AY485277.1;AY357076.1;AY350750.1;AY282752.2;AY502928.1;AY394998.1;AY502924.1;AP006559.1;AY502923.1;AP006561.1;AY502932.1;AP006560.1;AP006558.1;AY348314.1;AY338175.1;AY338174.1;AY502929.1;AY313906.1;AY502931.1;AP006557.1;AY362698.1;AY502930.1;AY362699.1;AY345987.1;AY345986.1;AY345988.1;AY485278.1;AY357075.1;EU371564.1;EU371563.1;EU371562.1;EU371561.1;EU371560.1;EU371559.1;AY394999.1;AY395001.1;AY395000.1;AY395002.1;KY417150.1;KY417146.1;KC881006.1;KF367457.1;KY417144.1;KC881005.1;MK211376.1;KY417152.1;KY417151.1;KY417145.1;KJ473816.1;KY770859.1;KY770858.1;FJ588686.1;MK211378.1;KY417149.1;KY417143.1;KU973692.1;JX993988.1;KF569996.1;GQ153543.1;GQ153542.1;GQ153547.1;FJ211859.1;DQ022305.2;DQ084200.1;DQ084199.1;GQ153548.1;GQ153546.1;GQ153545.1;GQ153544.1;GQ153540.1;GQ153541.1;GQ153539.1;KJ473814.1;DQ412043.1;DQ648857.1;JX993987.1;KY938558.1;KJ473811.1;DQ412042.1;DQ648856.1;KY770860.1;KJ473813.1;KJ473812.1;KY352407.1;NC;MG772934.1;MG772933.1;MT040333.1;MT072865.1;MT040335.1;MT040334.1;MT040336.1;MT072864.1;MT121216.1;MT084071.1;MN996532.1;MT461669.1;MT461670.1;NC;KX883638.1;MF685025.1;KX947267.1;FJ848673.1;FJ848674.1;FJ848675.1;EU487200.1;MG600027.1;KY130432.1;NC;KJ681496.1;MG600031.1;MG600030.1;NC;KY370053.1;MG996765.1;NC;AY427798.1;MK521914.1;LC088095.1;LC088094.1;LT900503.1;KM403390.1;NC;JQ860350.1;MH603532.1;MG600028.1;KY967734.1;KY967735.1;

KY967733.1;KY967726.1;KY967725.1;NC;KY967717.1;KY967715.1;KY967724.1;KY967723.1;KP981644.1;JQ404409.1;KC175341.1;KC175340.1;MT114540.1;MT114542.1;MT114538.1;MT114541.1;MT114543.1;MT114544.1;MT114539.1;GQ477367.1;EU856362.1;EU856361.1;KP849472.1;KX499468.1;DQ811787.1;KR270796.1;KX900398.1;KX900403.1;KX900395.1;KY406735.1;KX900404.1;KX900405.1;KX900411.1;KX900406.1;KX900407.1;KX900401.1;KX900400.1;KX900399.1;KX900397.1;KX900396.1;KX900408.1;KX900410.1;KX900409.1;KR061459.1;NC;LT545990.1;DQ201447.1;DQ811785.1;DQ811786.2;FJ755618.2;EU074218.2;KX058075.1;KT696544.1;KP202848.1;HQ462571.1;CQ870486.1;AX154950.1;GC668780.1;NC;AJ271965.2;KX083668.1;KC962433.1;KU729220.1;HM776941.1;DQ811788.1;KX900393.1;KX900394.1;KX900402.1;DQ443743.1;DQ811789.2;JN856008.2;JQ404410.1;KY063616.1;KY063617.1;KY063618.2;GQ152141.1;KF530116.1;HQ392471.1;MG893511.1;EU186072.1;HQ012370.1;KX722529.1;KX722530.1;KX722531.1;KF530124.1;FJ938058.1;KF530271.1;KF530270.1;HQ392470.1;HQ012367.1;HQ012372.1;HQ012369.1;GU553362.1;GU553361.1;HQ012371.1;HQ392469.1;HQ392472.1;KF530122.1;KF530119.1;JN183882.1;KF530135.1;KF530123.1;KF530126.1;KF530120.1;KF530131.1;KF530130.1;KY566209.1;KY566211.1;KY566210.1;KF530127.1;KY292377.1;MN165107.1;KF530118.1;KF530115.1;KF530132.1;JN183883.1;KF530136.1;KF530134.1;DQ848678.1;KP143509.1;KP143508.1;KP143512.1;KP143507.1;KP143510.1;KP143511.1;KF530117.1;KF530129.1;KF530125.1;FJ938062.1;FJ938055.1;FJ938059.1;FJ938052.1;HQ012368.1;FJ938057.1;FJ938056.1;FJ938053.1;FJ938054.1;FJ938051.1;FJ938061.1;FJ938060.1;KU215427.1;KU215428.1;KU215419.1;KU215420.1;KU215424.1;KU215425.1;KU215423.1;KU215426.1;KU215422.1;KU215421.1;KF530133.1;KF530121.1;MH817484.1;DQ286389.1;KC175339.1;NC;AY994055.1;KC461236.1;KC461237.1;DQ010921.1;KC461235.1;JQ408981.1;JQ408980.1;JN634064.1;NC;HM245925.1;HM245926.1;MF113046.1;NC;KM347965.1;KX512809.1;LC119077.1;LC215871.1;KX512810.1;NC;KX964649.1;KY370045.1;KY370045.1;MK163627.1;NC;KF294380.2;KY370050.1;KT253271.1;KT253272.1;KY073747.1;KY073748.1;MN611517.1;KT253270.1;KT253269.1;KU291449.1;JQ410000.1;KT368916.1;KT253327.1;NC;KT368907.1;KT368908.1;KT368899.1;KT368901.1;KT368898.1;KT368903.1;KT368906.1;MF593473.1;KT368895.1;KT368896.1;KT368897.1;KT368915.1;KT368894.1;KT368892.1;KT368893.1;KT368900.1;KT368914.1;KT368913.1;KT368902.1;KT368909.1;KT368910.1;KT368911.1;KT368912.1;KT368904.1;KT368905.1;KT253328.1;KT253324.1;KT253326.1;KT253325.1;KF514432.1;KF514431.1;JX503061.1;KY674919.1;JX503060.1;KY996417.1;MT438696.1;KY369911.1;KY369910.1;KY983587.1;KY967357.1;KY369908.1;MT438699.1;MT438698.1;MN369046.1;MN306046.1;KY369912.1;KY369914.1;MF542265.1;KY684760.1;KY369913.1;KY369909.2;KY621348.1;KY674914.1;KU291448.1;KF514433.1;KF514430.1;KF514429.1;NC;AF304460.1;X69721.1;KF293666.1;KF293665.1;KF293664.1;KY073746.1;NC;KY073745.1;KY073744.1;NC;JQ765564.1;JQ900256.1;JQ900258.1;JQ765569.1;JQ765565.1;JQ765563.1;KF530112.1;MK334046.1;MK334047.1;MN026166.1;MG772808.1;KY983586.1;DQ445911.1;JQ765571.1;JQ765572.1;JX504050.1;FJ211861.1;DJ009246.1;CS124012.1;CS078029.1;CS037919.1;MI512876.1;HK133379.1;GX610733.1;NC;AY567487.2;JQ900260.1;JQ765568.1;JQ900259.1;JQ765575.1;JQ765573.1;KU521535.1;JQ765567.1;KT381875.1;KX179500.1;KY674915.1;KY554967.1;KY674916.1;KY554968.1;KY554970.1;JQ900255.1;JQ765566.1;MK334044.1;MK334043.1;MN306018.1;MK334045.1;MN306040.1;KT266906.1;MG428702.1;MG428707.1;MG428706.1;MG428701.1;MG428699.1;MG428700.1;MG428705.1;MG428703.1;JX104161.1;MG428704.1;JQ900257.1;JX524171.1;KF530105.1;JQ765574.1;KY554971.1;KY829118.1;KY554969.1;KF530110.1;KF530106.1;AY518894.1;KF530113.1;KF530111.1;KF530114.1;KF530108.1;KF530104.1;KF530109.1;KF530107.1;JQ765570.1;DQ445912.1;NC;KJ473806.1;KY770851.1;KY770850.1;MK472070.1;MN611525.1;MN611523.1;NC;JQ989270.1;JQ989271.1;JQ989273.1;JQ989272.1;JQ989269.1;JQ989267.1;JQ989266.1;JQ989268.1;NC;KJ473807.1;KJ473810.1;MG916904.1;MK720946.1;MK720945.1;MG916903.1;MG916902.1;MG916901.1;MK211373.1;EU420137.1;KJ473795.1;NC;EU420138.1;KJ473796.1;MN611524.1;KJ473798.1;KJ473800.1;KJ473799.1;NC;EU420139.1;KJ473797.1;MN611518.1;MK720944.1;MK472071.1;MK472069.1;MK472068.1;MH938449.1;NC;MH938450.1;NC;KJ473809.1;MH938448.1;MH687952.1;MH687951.1;MH687940.1;MH687949.1;MH687935.1;MH687962.1;MH687950.1;MH687939.1;MH687959.1;MH687936.1;MH687943.1;MH68795

5.1;MH687965.1;MH687960.1;MH687958.1;MH687961.1;MH687937.1;MH687957.1;MH687966.1;MH687942.1;MH687944.1;MH687956.1;MN611521.1;MK211372.1;NC;DQ648858.1;MK211371.1;MK211370.1;MK211369.1;MH687941.1;MH687938.1;MH687934.1;MH687948.1;MH687954.1;MH687946.1;MH687967.1;MH687964.1;MH687963.1;MH687945.1;MN065811.1;MG923574.2;KJ158152.1;KC189944.1;MN315264.1;KP728470.1;JX560761.1;MG781192.1;KX534206.1;KX534205.1;JQ023162.1;LQ410518.1;MM872280.1;KP162057.1;KP403802.1;MH726408.1;KY420075.1;KT323979.1;KC109141.1;KC210146.1;MN486588.1;MK796238.1;KU836638.1;EF185992.1;NC;AF353511.1;LT905451.1;KR610992.1;KR610991.1;KU664503.1;LC053455.1;GU937797.1;LQ410517.1;MM872279.1;KM887144.1;KX839250.1;KX839248.1;KX839247.1;KY486713.1;KX839251.1;KY486714.1;KX839249.1;KX839246.1;LT897799.1;LT906581.1;LT906582.1;LT906620.1;LT905450.1;KX791060.1;KF761675.1;KT021227.1;KT021228.1;KT021229.1;KT021230.1;KT021231.1;KT021233.1;KT021232.1;JX489155.1;JX188454.1;MH726392.1;KP765609.1;MK644604.1;KR610993.1;KJ960178.1;KJ960180.1;KR610994.1;KJ960179.1;MH726393.1;KR818832.1;JX524137.1;MH726386.1;MH726391.1;MH726385.1;JX112709.1;MK392335.1;MH726387.1;JX647847.1;MH748550.1;MK584552.1;KM089829.1;MH726390.1;KU646831.1;MH726388.1;MH726389.1;KF384500.1;MH708895.1;KM609204.1;JX261936.1;MH726384.1;MH726398.1;MH726397.1;MH726396.1;MH726401.1;MH726395.1;MH726394.1;MH726399.1;MH726400.1;MK288006.1;MH726373.1;KU380331.1;KC210145.1;MA741912.1;LY411680.1;LQ410519.1;LQ068536.1;MM872281.1;KJ645683.1;KM975737.1;MA347662.1;LP731461.1;MA347651.1;LP731413.1;KJ645641.1;KP641663.1;KP641662.1;MG837058.1;KU982981.1;MH052687.1;MH052683.1;KU982979.1;KU982978.1;KR265817.1;KR265840.1;KY499262.1;KX683006.1;MH891588.1;KR078299.1;KJ584361.1;KM392225.1;KU893861.1;KM392224.1;KR265842.1;KR265841.1;KU893869.1;KU893870.1;KU893871.1;KU893872.1;KX580958.1;KU893873.1;KJ645665.1;KJ645670.1;KJ645657.1;KJ645653.1;LC063830.1;LC063832.1;LC063831.1;LC063829.1;KR265809.1;KR265784.1;KR265803.1;KR265765.1;MK559456.1;MK559455.1;MK559454.1;KR265801.1;KJ645694.1;MK558089.1;KJ645636.1;JX524171.1;JQ900257.1;JX104161.1;MG428704.1;MG428700.1;MG428703.1;MG428699.1;MG428707.1;MG428701.1;MG428706.1;MG428705.1;MG428702.1;KT266906.1;MN306040.1;KU521535.1;KT381875.1;KX179500.1;JQ765567.1;KY674915.1;KY554967.1;KY674916.1;KY554970.1;KY554968.1;JQ900255.1;JQ765566.1;KF530105.1;JQ765574.1;KY554971.1;KY829118.1;KY554969.1;JQ765572.1;JQ765571.1;JX504050.1;FJ211861.1;NC;AY567487.2;DJ009246.1;CS124012.1;CS078029.1;CS037919.1;JQ765568.1;JQ900259.1;JQ765575.1;JQ765573.1;JQ900260.1;KF530110.1;KF530106.1;KF530113.1;KF530109.1;KF530107.1;KF530114.1;KF530108.1;KF530111.1;KF530104.1;KY983586.1;MN026166.1;MG772808.1;JQ900256.1;JQ765569.1;JQ765565.1;JQ765563.1;JQ900258.1;KF530112.1;JQ765570.1;DQ445912.1;JQ765564.1;NC;KY073744.1;NC;KY073745.1;KY073746.1;MN026165.1;MN026164.1;KY073748.1;KY073747.1;MK334047.1;MK334046.1;DQ445911.1;MK334044.1;MK334043.1;MN306018.1;MK334045.1;KF923894.1;KF923911.1;KF923891.1;KF923921.1;KF923908.1;KF923916.1;KF923909.1;KF923919.1;KF923910.1;KF923923.1;KF923922.1;KF923925.1;KJ958219.1;KJ958218.1;KF923893.1;KF923918.1;KF923924.1;KF923895.1;KF923907.1;KF923890.1;KY554974.1;KY554975.1;KY674920.1;KX344031.1;MK303621.1;MK303623.1;MK303624.1;MK303619.1;KX538964.1;KF923904.1;KX538966.1;KX538976.1;KX538972.1;KY967356.1;KX538978.1;KF923902.1;MG197713.1;MG197710.1;MG197715.1;MG197712.1;MG197717.1;MG197716.1;MG197722.1;MK303622.1;KX538979.1;MK303620.1;MF374983.2;MN306041.1;MN306036.1;MN306042.1;MN306053.1;MN310478.1;MH121121.1;KY369907.1;MF374985.2;MF374984.1;KY369906.1;MG197723.1;KY967358.1;KY983583.1;KY684759.1;KY967361.1;KY983585.1;KY967359.1;KY983588.1;KY369905.1;KX538970.1;MN026164.1;MG977451.1;MG977446.1;MG977450.1;MG977448.1;MG977444.1;MG977452.1;MG977445.1;MG977447.1;MG977449.1;KF923903.1;KF923897.1;KX538975.1;KX538967.1;KX538974.1;KX538971.1;KX538973.1;KX538968.1;KX538977.1;KX538969.1;KX538965.1;AY903459.1;KF923889.1;KF923887.1;KF923888.1;KF923898.1;MK303625.1;MG197709.1;MG197711.1;MG197720.1;MG197721.1;MG197718.1;MN306043.1;MN310476.1;MG197719.1;MG197714.1;KF923886.1;KF530070.1;KF530081.1;KF530068.1;KF530079.1;KF530094.1;KF530089.1;KF530082.1;KF530088.1;KF530071.1;KF530091.1;KF530076.1;KF530067.1;KF530096.1;KF530095.1;KF530085.1;KF530066.1;KF530061.1;KF

530073.1;KF530065.1;KF530090.1;KF530097.1;KF530074.1;KF530075.1;KF530059.1;KF530062.1;KF530087.1;KF530093.1;KF530060.1;KF530086.1;KF530077.1;KF530083.1;KF530092.1;KY014281.1;KF530080.1;KF530072.1;KF530078.1;KF530064.1;KY014282.1;KU131570.1;MF314143.1;MN026165.1;KY967360.1;MK327281.1;KP198610.1;KP198611.1;KF923906.1;KF923896.1;AY391777.1;AY585229.1;NC;AY585228.1;KF530098.1;KF530084.1;KF530069.1;KF530099.1;KF530063.1;JN129834.1;KF923905.1;KF923899.1;KF923900.1;JN129835.1;AY903460.1;KY554973.1;KY674918.1;KY674917.1;KY554972.1;KF923920.1;KF923915.1;KF923913.1;KF923912.1;KF923892.1;KF923917.1;KF923901.1;KF923914.1;FJ882947.1;FJ882939.1;FJ882932.1;FJ882934.1;FJ882927.1;FJ882938.1;AY278741.1;CS460762.1;AY338174.1;AY348314.1;AY338175.1;AY279354.2;AY278489.2;FJ588686.1;NC;MT121216.1;MT108784.1;MT461669.1;MT461671.1;MT461670.1;FJ211859.1;DQ412042.1;DQ412043.1;DQ071615.1;AY572035.1;AY572034.1;AY686863.1;AY686864.1;AY572038.1;AY304488.1;AY304486.1;AY864806.1;AY278487.3;AY278490.3;AY278488.2;AY772062.1;DQ898174.1;DQ182595.1;AY394850.2;FJ882926.1;FJ882929.1;FJ882931.1;FJ882944.1;FJ882954.1;FJ882950.1;FJ882956.1;FJ882940.1;FJ882955.1;FJ882960.1;FJ882941.1;FJ882930.1;FJ882928.1;FJ882933.1;FJ882937.1;FJ882946.1;FJ882935.1;FJ882936.1;FJ882949.1;