

**Table S1**

Group	Name (OTE:1-10)	Detrimental	Beneficial	Unknown	References
Health	Neisseriaceae	✓			Travis A.Meredith, J. Niklas Ulrich, Chapter 122 - Infectious Endophthalmitis, Retina (Fifth Edition), Volume Three, 2013, Pages 2019-2039, <a href="https://doi.org/10.1016/B978-1-4557-0737-9.00122-3">https://doi.org/10.1016/B978-1-4557-0737-9.00122-3</a>
	Lactobacillaceae		✓		Dicks L., Endo A. (2014) The Family <i>Lactobacillaceae</i> : Genera Other than <i>Lactobacillus</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Halomonadaceae			✓	de la Haba R.R., Arahal D.R., Sánchez-Porro C., Ventosa A. (2014) The Family <i>Halomonadaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Aerococcaceae	✓			Stackebrandt E. (2014) The Family <i>Aerococcaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Carnobacteriaceae		✓		Lawson P.A., Caldwell M.E. (2014) The Family <i>Carnobacteriaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Campylobacteraceae	✓			Lastovica A.J., On S.L.W., Zhang L. (2014) The Family <i>Campylobacteraceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Staphylococcaceae	✓			Lory S. (2014) The Family <i>Staphylococcaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Fusobacteriaceae	✓			Olsen I. (2014) The Family <i>Fusobacteriaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Chloroplast		✓		
	Micrococcaceae	✓			Dastager S.G., Krishnamurthi S., Rameshkumar N., Dharne M. (2014) The Family <i>Micrococcaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg

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Transitory	Clostridiales incertae sedis XII	✓			
	Rhizobiaceae		✓		Carareto Alves L.M., de Souza J.A.M., Varani A.M., Lemos E.G.M. (2014) The Family <i>Rhizobiaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Vibrionaceae	✓			Farmer J.J. (2006) The Family Vibrionaceae. In: Dworkin M., Falkow S., Rosenberg E., Schleifer KH., Stackebrandt E. (eds) The Prokaryotes. Springer, New York, NY
	Pseudomonadaceae	✓			Palleroni N.J. (1981) Introduction to the Family Pseudomonadaceae. In: Starr M.P., Stolp H., Trüper H.G., Balows A., Schlegel H.G. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Corynebacteriaceae	✓			Tauch A., Sandbøte J. (2014) The Family <i>Corynebacteriaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Fusobacteriaceae	✓			Olsen I. (2014) The Family <i>Fusobacteriaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Acidobacteria Group 18		✓		
	Anaeroplasmataceae	✓			
	uncultured Flavobacteriales	✓			
	uncultured Verrucomicrobiales	✓			

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Unhealthy	Cryomorphaceae		✓		Bowman J.P. (2014) The Family <i>Cryomorphaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Desulfohalobiac		✓		Kuever J. (2014) The Family <i>Desulfohalobiaceae</i> .

	eae				In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Legionellaceae	✓			Lory S. (2014) The Family <i>Legionellaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Methylococcaceae		✓		Bowman J.P. (2014) The Family <i>Methylococcaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Anaplasmataceae		✓		Rosenberg E. (2014) The Family <i>Anaplasmataceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Halanaerobiaceae			✓	Oren A. (2014) The Order <i>Halanaerobiales</i> , and the Families <i>Halanaerobiaceae</i> and <i>Halobacteroidaceae</i> . In: Rosenberg E., DeLong E.F., Lory S., Stackebrandt E., Thompson F. (eds) The Prokaryotes. Springer, Berlin, Heidelberg
	Halobacteroidaceae			✓	<a href="https://doi.org/10.1002/9781118960608.fbm00148">https://doi.org/10.1002/9781118960608.fbm00148</a>
	Microbacteriaceae			✓	Evtushenko L.I., Takeuchi M. (2006) The Family Microbacteriaceae. In: Dworkin M., Falkow S., Rosenberg E., Schleifer KH., Stackebrandt E. (eds) The Prokaryotes. Springer, New York, NY
	Halomonadaceae			✓	Arahal D.R., Ventosa A. (2006) The Family Halomonadaceae. In: Dworkin M., Falkow S., Rosenberg E., Schleifer KH., Stackebrandt E. (eds) The Prokaryotes. Springer, New York, NY
	Heliobacteriaceae			✓	