**Supplementary File II. 200 genes predicted to be functionally similar to the DCD-associated genes (DCD-predicted genes)**. These genes wereprocedurally retrieved for the enrichment of the DCD gene co-expression network using the network function of the program MetaBrain (https://network.metabrain.nl).

|  |  |  |
| --- | --- | --- |
| [TSPAN7](https://network.metabrain.nl/gene/ENSG00000156298) |  |  |
| [NRXN1](https://network.metabrain.nl/gene/ENSG00000179915) |  |  |
| [SNAP91](https://network.metabrain.nl/gene/ENSG00000065609) |  |  |
| [CELF3](https://network.metabrain.nl/gene/ENSG00000159409) |  |  |
| [UNC13A](https://network.metabrain.nl/gene/ENSG00000130477) |  |  |
| [JPH4](https://network.metabrain.nl/gene/ENSG00000092051) |  |  |
| [EEF1A2](https://network.metabrain.nl/gene/ENSG00000101210) |  |  |
| [KCNQ2](https://network.metabrain.nl/gene/ENSG00000075043) |  |  |
| [BRSK2](https://network.metabrain.nl/gene/ENSG00000174672) |  |  |
| [SEMA6B](https://network.metabrain.nl/gene/ENSG00000167680) |  |  |
| [ATP2B2](https://network.metabrain.nl/gene/ENSG00000157087) |  |  |
| [JPH3](https://network.metabrain.nl/gene/ENSG00000154118) |  |  |
| [PHACTR3](https://network.metabrain.nl/gene/ENSG00000087495) |  |  |
| [CTNNA2](https://network.metabrain.nl/gene/ENSG00000066032) |  |  |
| [TLCD3B](https://network.metabrain.nl/gene/ENSG00000149926) |  |  |
| [IGSF21](https://network.metabrain.nl/gene/ENSG00000117154) |  |  |
| [CADM2](https://network.metabrain.nl/gene/ENSG00000175161) |  |  |
| [NTM](https://network.metabrain.nl/gene/ENSG00000182667) |  |  |
| [HECW1](https://network.metabrain.nl/gene/ENSG00000002746) |  |  |
| [SEPTIN3](https://network.metabrain.nl/gene/ENSG00000100167) |  |  |
| [AC005696.4](https://network.metabrain.nl/gene/ENSG00000277200) |  |  |
| [CPLX1](https://network.metabrain.nl/gene/ENSG00000168993) |  |  |
| [CACNA1A](https://network.metabrain.nl/gene/ENSG00000141837) |  |  |
| [ADD2](https://network.metabrain.nl/gene/ENSG00000075340) |  |  |
| [SCG3](https://network.metabrain.nl/gene/ENSG00000104112) |  |  |
| [RUNDC3A](https://network.metabrain.nl/gene/ENSG00000108309) |  |  |
| [SYT3](https://network.metabrain.nl/gene/ENSG00000213023) |  |  |
| [CRMP1](https://network.metabrain.nl/gene/ENSG00000072832) |  |  |
| [MAPK8IP2](https://network.metabrain.nl/gene/ENSG00000008735) |  |  |
| [KIF1A](https://network.metabrain.nl/gene/ENSG00000130294) |  |  |
| [SPTB](https://network.metabrain.nl/gene/ENSG00000070182) |  |  |
| [MGAT5B](https://network.metabrain.nl/gene/ENSG00000167889) |  |  |
| [RIMS3](https://network.metabrain.nl/gene/ENSG00000117016) |  |  |
| [PPFIA3](https://network.metabrain.nl/gene/ENSG00000177380) |  |  |
| [NRXN2](https://network.metabrain.nl/gene/ENSG00000110076) |  |  |
| [RIT2](https://network.metabrain.nl/gene/ENSG00000152214) |  |  |
| [BCAS1](https://network.metabrain.nl/gene/ENSG00000064787) |  |  |
| [ASTN1](https://network.metabrain.nl/gene/ENSG00000152092) |  |  |
| [TMEM151B](https://network.metabrain.nl/gene/ENSG00000178233) |  |  |
| [RTN2](https://network.metabrain.nl/gene/ENSG00000125744) |  |  |
| [NMNAT2](https://network.metabrain.nl/gene/ENSG00000157064) |  |  |
| [FBXL16](https://network.metabrain.nl/gene/ENSG00000127585) |  |  |
| [CDH22](https://network.metabrain.nl/gene/ENSG00000149654) |  |  |
| [RNF165](https://network.metabrain.nl/gene/ENSG00000141622) |  |  |
| [CELF4](https://network.metabrain.nl/gene/ENSG00000101489) |  |  |
| [CSMD1](https://network.metabrain.nl/gene/ENSG00000183117) |  |  |
| [ATCAY](https://network.metabrain.nl/gene/ENSG00000167654) |  |  |
| [ELAVL3](https://network.metabrain.nl/gene/ENSG00000196361) |  |  |
| [AMER3](https://network.metabrain.nl/gene/ENSG00000178171) |  |  |
| [PPP2R2C](https://network.metabrain.nl/gene/ENSG00000074211) |  |  |
| [CELSR3](https://network.metabrain.nl/gene/ENSG00000008300) |  |  |
| [GRAMD1B](https://network.metabrain.nl/gene/ENSG00000023171) |  |  |
| [CNTN1](https://network.metabrain.nl/gene/ENSG00000018236) |  |  |
| [CAMTA2](https://network.metabrain.nl/gene/ENSG00000108509) |  |  |
| [TRIM67](https://network.metabrain.nl/gene/ENSG00000119283) |  |  |
| [PSD](https://network.metabrain.nl/gene/ENSG00000059915) |  |  |
| [LRRTM1](https://network.metabrain.nl/gene/ENSG00000162951) |  |  |
| [ATP1A3](https://network.metabrain.nl/gene/ENSG00000105409) |  |  |
| [DUSP8](https://network.metabrain.nl/gene/ENSG00000184545) |  |  |
| [BCR](https://network.metabrain.nl/gene/ENSG00000186716) |  |  |
| [NEURL1](https://network.metabrain.nl/gene/ENSG00000107954) |  |  |
| [NTRK2](https://network.metabrain.nl/gene/ENSG00000148053) |  |  |
| [CHRNA4](https://network.metabrain.nl/gene/ENSG00000101204) |  |  |
| [PAIP2B](https://network.metabrain.nl/gene/ENSG00000124374) |  |  |
| [KCNK12](https://network.metabrain.nl/gene/ENSG00000184261) |  |  |
| [DLG4](https://network.metabrain.nl/gene/ENSG00000132535) |  |  |
| [AGAP2](https://network.metabrain.nl/gene/ENSG00000135439) |  |  |
| [MAPT-AS1](https://network.metabrain.nl/gene/ENSG00000264589) |  |  |
| [FGF12](https://network.metabrain.nl/gene/ENSG00000114279) |  |  |
| [IQSEC2](https://network.metabrain.nl/gene/ENSG00000124313) |  |  |
| [MAPT](https://network.metabrain.nl/gene/ENSG00000186868) |  |  |
| [TNR](https://network.metabrain.nl/gene/ENSG00000116147) |  |  |
| [PTPRN](https://network.metabrain.nl/gene/ENSG00000054356) |  |  |
| [CYFIP2](https://network.metabrain.nl/gene/ENSG00000055163) |  |  |
| [INA](https://network.metabrain.nl/gene/ENSG00000148798) |  |  |
| [GRIK2](https://network.metabrain.nl/gene/ENSG00000164418) |  |  |
| [IQSEC3](https://network.metabrain.nl/gene/ENSG00000120645) |  |  |
| [SCRT1](https://network.metabrain.nl/gene/ENSG00000261678) |  |  |
| [PPP1R1A](https://network.metabrain.nl/gene/ENSG00000135447) |  |  |
| [CIT](https://network.metabrain.nl/gene/ENSG00000122966) |  |  |
| [KCND1](https://network.metabrain.nl/gene/ENSG00000102057) |  |  |
| [SYBU](https://network.metabrain.nl/gene/ENSG00000147642) |  |  |
| [SVOP](https://network.metabrain.nl/gene/ENSG00000166111) |  |  |
| [CARMIL2](https://network.metabrain.nl/gene/ENSG00000159753) |  |  |
| [SEZ6L](https://network.metabrain.nl/gene/ENSG00000100095) |  |  |
| [RASGEF1C](https://network.metabrain.nl/gene/ENSG00000146090) |  |  |
| [PIK3R1](https://network.metabrain.nl/gene/ENSG00000145675) |  |  |
| [FHDC1](https://network.metabrain.nl/gene/ENSG00000137460) |  |  |
| [SLITRK3](https://network.metabrain.nl/gene/ENSG00000121871) |  |  |
| [ADAM22](https://network.metabrain.nl/gene/ENSG00000008277) |  |  |
| [MGLL](https://network.metabrain.nl/gene/ENSG00000074416) |  |  |
| [DEAF1](https://network.metabrain.nl/gene/ENSG00000177030) |  |  |
| [DBNDD1](https://network.metabrain.nl/gene/ENSG00000003249) |  |  |
| [CPLX2](https://network.metabrain.nl/gene/ENSG00000145920) |  |  |
| [PLCB1](https://network.metabrain.nl/gene/ENSG00000182621) |  |  |
| [TNPO2](https://network.metabrain.nl/gene/ENSG00000105576) |  |  |
| [PLCXD2](https://network.metabrain.nl/gene/ENSG00000240891) |  |  |
| [CAMSAP3](https://network.metabrain.nl/gene/ENSG00000076826) |  |  |
| [KCNT1](https://network.metabrain.nl/gene/ENSG00000107147) |  |  |
| [L1CAM](https://network.metabrain.nl/gene/ENSG00000198910) |  |  |
| [SPTBN1](https://network.metabrain.nl/gene/ENSG00000115306) |  |  |
| [KIF3C](https://network.metabrain.nl/gene/ENSG00000084731) |  |  |
| [DLGAP3](https://network.metabrain.nl/gene/ENSG00000116544) |  |  |
| [DENND6B](https://network.metabrain.nl/gene/ENSG00000205593) |  |  |
| [SPTSSB](https://network.metabrain.nl/gene/ENSG00000196542) |  |  |
| [SPATA20](https://network.metabrain.nl/gene/ENSG00000006282) |  |  |
| [CHGB](https://network.metabrain.nl/gene/ENSG00000089199) |  |  |
| [RIMS2](https://network.metabrain.nl/gene/ENSG00000176406) |  |  |
| [CACNA1I](https://network.metabrain.nl/gene/ENSG00000100346) |  |  |
| [VAT1L](https://network.metabrain.nl/gene/ENSG00000171724) |  |  |
| [BSN](https://network.metabrain.nl/gene/ENSG00000164061) |  |  |
| [GSK3B](https://network.metabrain.nl/gene/ENSG00000082701) |  |  |
| [GDAP1L1](https://network.metabrain.nl/gene/ENSG00000124194) |  |  |
| [LINGO1](https://network.metabrain.nl/gene/ENSG00000169783) |  |  |
| [MCF2L](https://network.metabrain.nl/gene/ENSG00000126217) |  |  |
| [PTK2B](https://network.metabrain.nl/gene/ENSG00000120899) |  |  |
| [ZNF385B](https://network.metabrain.nl/gene/ENSG00000144331) |  |  |
| [SLC8A2](https://network.metabrain.nl/gene/ENSG00000118160) |  |  |
| [SEPTIN5](https://network.metabrain.nl/gene/ENSG00000184702) |  |  |
| [TMEM63C](https://network.metabrain.nl/gene/ENSG00000165548) |  |  |
| [CAMK1D](https://network.metabrain.nl/gene/ENSG00000183049) |  |  |
| [NR2F1-AS1](https://network.metabrain.nl/gene/ENSG00000237187) |  |  |
| [ACTL6B](https://network.metabrain.nl/gene/ENSG00000077080) |  |  |
| [PAK5](https://network.metabrain.nl/gene/ENSG00000101349) |  |  |
| [FBXO41](https://network.metabrain.nl/gene/ENSG00000163013) |  |  |
| [PITPNC1](https://network.metabrain.nl/gene/ENSG00000154217) |  |  |
| [CSMD3](https://network.metabrain.nl/gene/ENSG00000164796) |  |  |
| [SH3GL2](https://network.metabrain.nl/gene/ENSG00000107295) |  |  |
| [HCN2](https://network.metabrain.nl/gene/ENSG00000099822) |  |  |
| [CKMT1B](https://network.metabrain.nl/gene/ENSG00000237289) |  |  |
| [KCND2](https://network.metabrain.nl/gene/ENSG00000184408) |  |  |
| [KCNQ3](https://network.metabrain.nl/gene/ENSG00000184156) |  |  |
| [KNDC1](https://network.metabrain.nl/gene/ENSG00000171798) |  |  |
| [RAB3C](https://network.metabrain.nl/gene/ENSG00000152932) |  |  |
| [RAB15](https://network.metabrain.nl/gene/ENSG00000139998) |  |  |
| [MAP3K10](https://network.metabrain.nl/gene/ENSG00000130758) |  |  |
| [NSG1](https://network.metabrain.nl/gene/ENSG00000168824) |  |  |
| [MAP1A](https://network.metabrain.nl/gene/ENSG00000166963) |  |  |
| [RASSF2](https://network.metabrain.nl/gene/ENSG00000101265) |  |  |
| [PAK6](https://network.metabrain.nl/gene/ENSG00000137843) |  |  |
| [SCN3B](https://network.metabrain.nl/gene/ENSG00000166257) |  |  |
| [LINC00689](https://network.metabrain.nl/gene/ENSG00000231419) |  |  |
| [ANK2](https://network.metabrain.nl/gene/ENSG00000145362) |  |  |
| [GGTA1P](https://network.metabrain.nl/gene/ENSG00000204136) |  |  |
| [CAMKK2](https://network.metabrain.nl/gene/ENSG00000110931) |  |  |
| [APC2](https://network.metabrain.nl/gene/ENSG00000115266) |  |  |
| [SLC8A3](https://network.metabrain.nl/gene/ENSG00000100678) |  |  |
| [FRRS1L](https://network.metabrain.nl/gene/ENSG00000260230) |  |  |
| [DMTN](https://network.metabrain.nl/gene/ENSG00000158856) |  |  |
| [SCN2A](https://network.metabrain.nl/gene/ENSG00000136531) |  |  |
| [TMOD2](https://network.metabrain.nl/gene/ENSG00000128872) |  |  |
| [PPFIA4](https://network.metabrain.nl/gene/ENSG00000143847) |  |  |
| [CADM3](https://network.metabrain.nl/gene/ENSG00000162706) |  |  |
| [AL356056.2](https://network.metabrain.nl/gene/ENSG00000231187) |  |  |
| [PIP5K1C](https://network.metabrain.nl/gene/ENSG00000186111) |  |  |
| [TMEM35A](https://network.metabrain.nl/gene/ENSG00000126950) |  |  |
| [DPYSL3](https://network.metabrain.nl/gene/ENSG00000113657) |  |  |
| [DLGAP4](https://network.metabrain.nl/gene/ENSG00000080845) |  |  |
| [ADAM23](https://network.metabrain.nl/gene/ENSG00000114948) |  |  |
| [MAST1](https://network.metabrain.nl/gene/ENSG00000105613) |  |  |
| [MAP3K13](https://network.metabrain.nl/gene/ENSG00000073803) |  |  |
| [MAP1B](https://network.metabrain.nl/gene/ENSG00000131711) |  |  |
| [NRSN2](https://network.metabrain.nl/gene/ENSG00000125841) |  |  |
| [FAIM2](https://network.metabrain.nl/gene/ENSG00000135472) |  |  |
| [MYT1L](https://network.metabrain.nl/gene/ENSG00000186487) |  |  |
| [JAZF1](https://network.metabrain.nl/gene/ENSG00000153814) |  |  |
| [DNER](https://network.metabrain.nl/gene/ENSG00000187957) |  |  |
| [RNF150](https://network.metabrain.nl/gene/ENSG00000170153) |  |  |
| [CNTNAP5](https://network.metabrain.nl/gene/ENSG00000155052) |  |  |
| [CADPS](https://network.metabrain.nl/gene/ENSG00000163618) |  |  |
| [TMCC3](https://network.metabrain.nl/gene/ENSG00000057704) |  |  |
| [DCX](https://network.metabrain.nl/gene/ENSG00000077279) |  |  |
| [PDZD4](https://network.metabrain.nl/gene/ENSG00000067840) |  |  |
| [CPE](https://network.metabrain.nl/gene/ENSG00000109472) |  |  |
| [ARHGAP39](https://network.metabrain.nl/gene/ENSG00000147799) |  |  |
| [APBA1](https://network.metabrain.nl/gene/ENSG00000107282) |  |  |
| [STX1B](https://network.metabrain.nl/gene/ENSG00000099365) |  |  |
| [AOAH](https://network.metabrain.nl/gene/ENSG00000136250) |  |  |
| [CELF5](https://network.metabrain.nl/gene/ENSG00000161082) |  |  |
| [FAM189A1](https://network.metabrain.nl/gene/ENSG00000104059) |  |  |
| [KLF6](https://network.metabrain.nl/gene/ENSG00000067082) |  |  |
| [SBK1](https://network.metabrain.nl/gene/ENSG00000188322) |  |  |
| [ENPP5](https://network.metabrain.nl/gene/ENSG00000112796) |  |  |
| [SMPD3](https://network.metabrain.nl/gene/ENSG00000103056) |  |  |
| [TMEM271](https://network.metabrain.nl/gene/ENSG00000273238) |  |  |
| [PALM](https://network.metabrain.nl/gene/ENSG00000099864) |  |  |
| [SGSM1](https://network.metabrain.nl/gene/ENSG00000167037) |  |  |
| [EXTL1](https://network.metabrain.nl/gene/ENSG00000158008) |  |  |
| [PITPNM1](https://network.metabrain.nl/gene/ENSG00000110697) |  |  |
| [CA10](https://network.metabrain.nl/gene/ENSG00000154975) |  |  |
| [CHRNB2](https://network.metabrain.nl/gene/ENSG00000160716) |  |  |
| [STXBP1](https://network.metabrain.nl/gene/ENSG00000136854) |  |  |
| [LUZP2](https://network.metabrain.nl/gene/ENSG00000187398) |  |  |
| [PITPNM3](https://network.metabrain.nl/gene/ENSG00000091622) |  |  |
| [HRH3](https://network.metabrain.nl/gene/ENSG00000101180) |  |  |
| [RIMS4](https://network.metabrain.nl/gene/ENSG00000101098) |  |  |
| [SNPH](https://network.metabrain.nl/gene/ENSG00000101298) |  |  |
| [SLC6A17](https://network.metabrain.nl/gene/ENSG00000197106) |  |  |
| [ARHGDIG](https://network.metabrain.nl/gene/ENSG00000242173) |  |  |
| [SNX29](https://network.metabrain.nl/gene/ENSG00000048471) |  |  |