

# DisGeNET Top pathways by non-permutation

Geneset	stat	num.genes	pval	p.adj	gene.vals
Autism Spectrum Disorders	-0.07066500	470	1.923e-07	9.431e-04	LRRN3:7 TSHZ3:8 HERC2:13 CNTN4:26 RYR2:32 CARMIL1:55
Schizophrenia	-0.04094561	1583	1.319e-07	9.431e-04	NOS1AP:2 TRPM1:3 HERC2:13 NDST3:22 CNTN4:26 ADCY1:43
Channelopathies	-0.20301892	47	1.493e-06	4.881e-03	ANK2:15 RYR2:32 SCN9A:44 CNGB3:105 CACNA1S:354 HCN1:380
Alzheimer's Disease	-0.03388084	1617	1.055e-05	2.292e-02	IREB2:29 RYR2:32 SYNJ1:34 F13B:39 CSF1:51 RNF112:59
Andersen Syndrome	-0.26757301	22	1.402e-05	2.292e-02	ANK2:15 RYR2:32 MTHFR:123 KCNJ12:139 SCN5A:697 PON1:809
HIV Infections	-0.05213584	618	1.198e-05	2.292e-02	VIPR1:24 CYLD:45 CXCR5:46 APOA1:73 IL16:113 SAMHD1:114
Autistic Disorder	-0.05190000	599	1.755e-05	2.459e-02	ATF6:4 CNTN3:12 CNTN4:26 RYR2:32 ZNF277:35 CHL1:76
CATARACT, AUTOSOMAL DOMINANT	-0.36374702	10	6.808e-05	8.348e-02	GJA8:142 MIP:343 CRYAA2:345 BFSP2:411 CRYAA:479 CRYBB1:864
Sinus Node Dysfunction (disorder)	-0.28378701	16	8.508e-05	9.274e-02	ANK2:15 SCN3B:279 HCN4:374 SCN5A:697 TGFB1:703 CACNA1D:777
Renal salt wasting	0.28258124	15	1.514e-04	1.485e-01	CYP11A1:170 CLCNKB:282 STAR:288 CLCNKA:301 SCNN1A:737 CYP21A2:855
Cataract, Central Saccular, With Sutural	-0.44234134	6	1.752e-04	1.562e-01	GJA8:142 MIP:343 BFSP2:411 CRYBA1:691 CRYGS:1347 CRYBB2:2251
Seizures, Focal	-0.09613787	123	2.376e-04	1.665e-01	SCN9A:44 KCNQ3:168 DRD2:296 SLC2A1:308 HCN1:380 CHRNA3:386
Complex partial seizures	-0.10242221	109	2.260e-04	1.665e-01	VPS11:271 DRD2:296 SLC2A1:308 HCN1:380 CHRNA3:386 GABRA5:415
nervous system disorder	-0.05623879	370	2.228e-04	1.665e-01	MTHFR:123 SETX:194 GLUL:267 DRD2:296 SLC2A1:308 SHANK2:363
Psychotic Disorders	-0.06345193	268	3.713e-04	2.428e-01	GRM2:63 MTHFR:123 LMOD2:154 BCL9:227 KIDINS220:249 GLUL:267
Migraine Disorders	-0.06644245	237	4.487e-04	2.486e-01	VIPR1:24 RYR2:32 ACE2:87 MMP16:95 MTHFR:123 TAC1:132
Neuralgia	-0.11152026	83	4.519e-04	2.486e-01	SCN9A:44 CXCR5:46 GRM2:63 TAC1:132 DRD2:296 HCN1:380
Severe myopia	-0.10647985	90	4.892e-04	2.486e-01	TRPM1:3 ATF6:4 CNGB3:105 GRM6:148 IGFBP3:235 PDE6B:259
Tetany	0.22463376	20	5.069e-04	2.486e-01	RREB1:68 CLDN16:100 GCM2:403 JMJD1C:910 TRPM6:979 SLC12A1:1014
Visual seizure	-0.07423200	188	4.666e-04	2.486e-01	ARC:143 CAMK2D:163 GLUL:267 DRD2:296 SLC2A1:308 HCN1:380
Epilepsy, Temporal Lobe	-0.07916616	160	5.676e-04	2.541e-01	GRM2:63 KCNQ3:168 ACOT7:241 BIN1:257 GLUL:267 SLC2A1:308
Myocardial Ischemia	-0.05255857	369	5.698e-04	2.541e-01	ANK2:15 RYR2:32 APOA1:73 ACE2:87 SELP:93 MTHFR:123
Ventricular tachycardia, polymorphic	-0.34175151	8	8.161e-04	2.557e-01	RYR2:32 HCN4:374 SCN5A:697 KCNQ1:891 KCNH2:957 CASQ2:1807
Aura	-0.12918340	56	8.341e-04	2.557e-01	CHRM2:144 HCN1:380 CHRM1:419 SCN1A:449 SLC12A5:518 GABRB3:629
Awakening Epilepsy	-0.12918340	56	8.341e-04	2.557e-01	CHRM2:144 HCN1:380 CHRM1:419 SCN1A:449 SLC12A5:518 GABRB3:629
Bradycardia	-0.13966246	48	8.217e-04	2.557e-01	ANK2:15 SCN9A:44 TAC1:132 CHRM2:144 GLUL:267 DRD2:296
Congenital lamellar cataract	-0.43474354	5	7.607e-04	2.557e-01	HSF4:19 MIP:343 CRYBA4:469 CRYAB:1784 IL2RG:2306 NA
Fetal polyuria	0.32564810	9	7.173e-04	2.557e-01	CLCNKB:282 GREB1L:286 CLCNKA:301 SLC12A1:1014 ITGA8:1642 KCNJ1:2244
Generalized seizures	-0.08878143	120	8.000e-04	2.557e-01	SYNJ1:34 DRD2:296 SLC2A1:308 HCN1:380 CHRNA3:386 GABRA5:415
Mammary Neoplasms	-0.02402068	1936	7.582e-04	2.557e-01	CNTN3:12 HERC2:13 VIPR1:24 KDM5B:27 CXCR5:46 CSF1:51
Mental disorders	-0.05975813	280	6.148e-04	2.557e-01	NOS1AP:2 MYT1:37 CSMD1:62 BAIAP2:100 MTHFR:123 CHRM2:144
Nicotine Dependence	-0.09471561	107	7.266e-04	2.557e-01	CHRM2:144 CYP2E1:255 DRD2:296 RPTOR:336 CHRNA3:386 DRD5:417
Epilepsy, Cryptogenic	-0.12736355	57	8.896e-04	2.644e-01	CHRM2:144 HCN1:380 CHRM1:419 SCN1A:449 SLC12A5:518 GABRB3:629
Abnormality of the fingernails	0.11337583	71	9.674e-04	2.791e-01	NSD1:137 GTF2IRD1:176 PEX1:226 IFT122:424 KRT16:434 IL17RC:489
Absence Seizures	-0.08890357	114	1.063e-03	2.981e-01	SCN9A:44 DRD2:296 SLC2A1:308 EHMT1:375 HCN1:380 CHRNA3:386
Hyperchloriduria	0.42012724	5	1.140e-03	3.022e-01	CLCNKB:282 CLCNKA:301 SLC12A1:1014 KCNJ1:2244 BSND:2518 NA
Increased urinary potassium	0.42012724	5	1.140e-03	3.022e-01	CLCNKB:282 CLCNKA:301 SLC12A1:1014 KCNJ1:2244 BSND:2518 NA
Tonic Seizures	-0.09490564	98	1.188e-03	3.067e-01	DRD2:296 SLC2A1:308 HCN1:380 CHRNA3:386 GABRA5:415 CHRM1:419
Mood Disorders	-0.05456026	300	1.220e-03	3.068e-01	ADCY1:43 GRM2:63 CHL1:76 ADAMTS6:108 MTHFR:123 TAC1:132
Hyperinsulinism	-0.05198447	329	1.268e-03	3.109e-01	ARHGEF12:11 HERC2:13 IREB2:29 SCAPER:84 NR2E3:126 SREBF1:128