GO_Biological_Process_2023 Top pathways by permulation

Cilium Movement (GO:0003341) 0.25969962 47 7.519e-10 4.045e-06 DNAH11:19 DNAI2:36 SPAG17:247 TEXT2:365 DNAH9:435 CFAP2 Axoneme Assembly (GO:0035082) 0.25692897 30 1.125e-06 3.027e-03 LRGUK:141 SPAG17:247 CCDC65:326 CFAP206:481 SPACA9:748 ST Axonemal Dynein Complex Assembly (GO:007 0.26722391 23 9.213e-06 9.913e-03 DNAI2:36 CCDC65:326 DNAH5:728 DNAH17:1027 TTC12:1033 DNA Cilium-Dependent Cell Motility (GO:00602 0.31091204 17 9.111e-06 9.913e-03 DNAH3:232 CCDC65:326 TEXT2:365 TEXT5:791 DNAH17:1027 GA: Regulation Of DNA-templated Transcriptio -0.03634291 1447 7.452e-06 9.913e-03 CARM1:18 TCF16:19 GTF2IRD1:54 NUP62:63 NSD1:106 ZNF628 Neuropeptide Signaling Pathway (GO:00072 0.15797528 663 1.480e-05 1.327e-02 SOCGS1:16 RXFP3:35 GPR37:226 LTB4R:329 OPRK1:635 GALR Regulation Of DNA-templated Transcriptio 0.02021682 37 2.100e-05 1.614e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of DNA Metabolic Process (GO: 0.11567172 97 8.504e-05 5.084e-02 TERF2:152 USP37:477 RBBP6:587 ESCO1:647 MYC:858 ACTR5 Fatty Acid Transport (GO:00015908) -0.18547566 36 1.187e-04 5.803e-02 LGMN:174 HSPB1:301 CCL19:329 PPMIF:339 IL6:430 VEGFA Cardiac Conduction (GO:0061337) 0.16773310 42 1.709e-04 7.071e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of Gene Expression (GO:001046 -0.03928959 829 1.593e-04 7.071e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of Gene Expression (GO:001046 -0.03928959 829 1.593e-04 7.071e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of Gene Expression (GO:001046 -0.03928959 829 1.593e-04 7.071e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of Gene Expression (GO:001046 -0.03928959 829 1.593e-04 7.071e-02 SCN5A:49 KCND3:97 HCN3:311 KCNE4:554 KCNE2:821 KCNH2 Regulation Of Cellular Componen -0.06407081 2.999e-04 1.002e-01 BCAT2:101 SDS:167 SDS	STK36:928 AH1:1176 AS8:1163 28:149 R3:697 H2:878 ND:514 5:1006 PARD:1166 A:446 H2:878 S1:107 :2006 CT4:2462
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Regulation Of DNA-templated Transcriptio	28:149 R3:697 d2:878 ND:514 5:1006 PARD:1166 A:446 d2:878 G1:107 :2006 (T4:2462
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Fatty Acid Transport (GO:0015908)	PARD:1166 A:446 H2:878 G1:107 :2006 KT4:2462
Positive Regulation Of Chemotaxis (GO:00	A:446 H2:878 G1:107 :2006 (T4:2462
Cardiac Conduction (GO:0061337)	12:878 61:107 :2006 (T4:2462
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Motile Cilium Assembly (GO:0044458) 0.26330544 14 6.481e-04 1.763e-01 E2F4:92 SPAG17:247 BBOF1:1683 RSPH9:2559 CCDC39:2623 MCID Positive Regulation Of Cellular Componen -0.10187651 94 6.555e-04 1.763e-01 LRP1:91 ASAP1:100 CLU:114 TPPP:127 CCL19:329 CRB3:34 Vesicle-Mediated Transport Between Endos -0.20597376 23 6.300e-04 1.763e-01 SNX16:367 PTPN23:1022 RAB7A:1088 HOOK2:1270 PIK3R4:1354 BE	
Positive Regulation Of Cellular Componen -0.10187651 94 6.555e-04 1.763e-01 LRP1:91 ASAP1:100 CLU:114 TPPP:127 CCL19:329 CRB3:34 Vesicle-Mediated Transport Between Endos -0.20597376 23 6.300e-04 1.763e-01 SNX16:367 PTPN23:1022 RAB7A:1088 HOOK2:1270 PIK3R4:1354 BE	2
Vesicle-Mediated Transport Between Endos -0.20597376 23 6.300e-04 1.763e-01 SNX16:367 PTPN23:1022 RAB7A:1088 HOOK2:1270 PIK3R4:1354 BE	IDAS:2794
	344
Nitrana Octobro (O. 0074705) 0.00400070 440 7.000-04 4.047 04	ECN1:1697
Nitrogen Compound Transport (GO:0071705) -0.08130372 146 7.209e-04 1.847e-01 SLC38A3:38 SLC6A6:53 RHAG:75 SLC7A4:87 ATP11B:139 RHC0	G:202
Early Endosome To Late Endosome Transpor	ECN1:1697
Fatty Acid Catabolic Process (GO:0009062 -0.12524595 58 9.814e-04 1.959e-01 HADHB:24 NUDT7:86 SLC27A4:141 EHHADH:260 PEX2:407 PLA20	2G15:422
Negative Regulation Of Apoptotic Process -0.05015361 375 9.347e-04 1.959e-01 NUP62:63 ALB:80 TMBIM4:110 CLU:114 LGMN:174 GCLC:21	215
Negative Regulation Of Macromolecule Bio	PO:722
Regulation Of Protein Phosphorylation (G -0.06464198 221 9.775e-04 1.959e-01 NSD1:106 HSPB1:301 PECAM1:312 TSPYL2:359 AXIN1:360 FKBF	3P8:382
Ventricular Cardiac Muscle Cell Action P 0.25589950 14 9.174e-04 1.959e-01 SCN5A:49 KCNE4:554 KCNE2:821 KCNH2:878 PKP2:1022 KCNQ	ົ21:1830
Mesodermal Cell Differentiation (GO:0048 0.33067506 8 1.201e-03 2.307e-01 ITGA3:358 ITGB4:951 ITGB1:1752 HMGA2:2252 ITGB3:2909 KDM6	16B:3230
Anterograde Trans-Synaptic Signaling (GO 0.07241974 166 1.332e-03 2.390e-01 CHRNE:42 DLG4:135 CHRNA4:143 RPS6KA1:154 CHRNA2:167 GAB	BRR2:179
Diol Biosynthetic Process (GO:0034312) -0.24836416 14 1.295e-03 2.390e-01 ACER1:184 QDPR:640 SPHK1:725 SPHK2:943 SPTLC2:1933 ACER	R2:2283
Positive Regulation Of Receptor-Mediated	1021
Regulation Of Interleukin-2 Production (-0.14541368 40 1.472e-03 2.405e-01 HOMER3:111 CD80:172 IL17F:214 TNFAIP3:492 CD86:503 RPS3	33:907
Striated Muscle Contraction (GO:0006941) 0.13276812 48 1.474e-03 2.405e-01 SCN5A:49 TCAP:145 LMOD3:204 DMD:228 CASQ2:245 TNNI3:	3:582
Branched-Chain Amino Acid Metabolic Proc -0.23496089 15 1.632e-03 2.492e-01 BCAT2:101 BCKDHA:1038 DBT:1399 PCCB:2152 HIBCH:2203 MCC	CC1:2244
Cellular Response To Acetylcholine (GO:1 0.30402751 9 1.588e-03 2.492e-01 LY6G6D:430 CHRND:514 CHRM3:1023 LY6H:1052 ROCK2:1193 LYP	PD1:2631
Positive Regulation Of Endothelial Cell -0.26213167 12 1.668e-03 2.492e-01 LGMN:174 HSPB1:301 VEGFA:446 MET:668 P2RX4:2164 KDR:2	:2810
Response To Peptidoglycan (GO:0032494) -0.40472332 5 1.723e-03 2.506e-01 INAVA:402 IL6:430 IRAK3:721 IRF5:2460 RELA:2974 NA	
Monocarboxylic Acid Transport (GO:001571 -0.11458389 62 1.827e-03 2.521e-01 SLC10A2:95 SLC27A4:141 SLC10A1:369 UGT1A6:625 SLC01A2:681 F	FABP6:916
Protein Ubiquitination (GO:0016567) -0.05041259 329 1.795e-03 2.521e-01 ATG3:59 CUL4B:96 KLHL2:97 PPIL2:154 RNF8:228 DTX2:234	
Cytosolic Transport (GO:0016482) -0.08698341 106 2.015e-03 2.522e-01 VPS13C:364 SNX16:367 CLTCL1:418 CLN3:481 EPS15:645 VPS26	26B:823