

A

NAME	SIZE	ES	NES	NOM p-val	FDR q-val
KEGG_PYRIMIDINE_METABOLISM	42	0.65745443	2.2660184	0.0000	0.0000
HALLMARK_MYC_TARGETS_V2	40	0.6329294	2.1353428	0.0000	0.0000
HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY	23	0.66056067	1.9783748	0.0000	0.0013
REACTOME_METABOLISM_OF_NUCLEOTIDES	45	0.5610285	1.9362094	0.0017	0.0353
REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUCLEOTIDE_DI_AND_TRIPHOSPHATES	15	0.7161858	1.9228737	0.0017	0.0220
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	15	0.67985487	1.8278371	0.0018	0.0257
REACTOME_INFLUENZA_LIFE_CYCLE	116	0.42666072	1.7494111	0.0000	0.1390
KEGG_PURINE_METABOLISM	55	0.4781754	1.7409075	0.0015	0.0448
HALLMARK_E2F_TARGETS	109	0.4292668	1.737116	0.0014	0.0177
HALLMARK_UV_RESPONSE_UP	56	0.4653759	1.6977409	0.0048	0.0230
REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION_PROTEASOME_DEGRADATION	89	0.41763365	1.6590726	0.0045	0.2137
KEGG_GLUTATHIONE_METABOLISM	28	0.5250061	1.6410465	0.0133	0.0934
KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	42	0.48382598	1.6329755	0.0112	0.0798
HALLMARK_MTORC1_SIGNALING	119	0.38082024	1.5638815	0.0030	0.0763
KEGG_RIBOSOME	75	0.4025802	1.5566938	0.0063	0.1249
HALLMARK_APOPTOSIS	48	0.43056756	1.5198188	0.0223	0.0909
KEGG_SPLICEOSOME	98	0.3708124	1.4939808	0.0030	0.1723
KEGG_DNA_REPLICATION	24	0.4871667	1.4873236	0.0471	0.1588
HALLMARK_G2M_CHECKPOINT	86	0.3694863	1.4590614	0.0286	0.1196
HALLMARK_DNA_REPAIR	69	0.38106045	1.4234469	0.0290	0.1369
HALLMARK_MYC_TARGETS_V1	180	0.3118267	1.3545369	0.0234	0.1936
HALLMARK_ALLOGRAFT_REJECTION	36	-0.40616748	-1.4485587	0.0474	0.0961
KEGG_ECM_RECEPTOR_INTERACTION	24	-0.4563365	-1.4736401	0.0474	0.2388
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES	26	-0.44953883	-1.4782183	0.0403	0.2076
HALLMARK_INTERFERON_ALPHA_RESPONSE	29	-0.4281655	-1.4785986	0.0420	0.0876
KEGG_CALCIIUM_SIGNALING_PATHWAY	19	-0.49786124	-1.5230166	0.0370	0.1875
KEGG_GNRH_SIGNALING_PATHWAY	21	-0.47977847	-1.5288852	0.0337	0.2000
KEGG_RENAL_CELL_CARCI_NOMA	20	-0.49976796	-1.5343391	0.0389	0.2163
KEGG_AXON_GUIDANCE	24	-0.487177	-1.5383517	0.0336	0.2414
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	57	-0.39981022	-1.5720456	0.0104	0.1297
REACTOME_SEMAPHORIN_INTERACTIONS	24	-0.48854607	-1.5826993	0.0291	0.1320
REACTOME_GPCR_DOWNSTREAM_SIGNALING	28	-0.47128528	-1.5901694	0.0149	0.1387
KEGG_GLYCOLYSIS_GLUONEOGENESIS	33	-0.4709478	-1.595909	0.0250	0.2292
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	19	-0.5293883	-1.6313763	0.0214	0.2122
REACTOME_PHOSPHOLIPID_METABOLISM	28	-0.4840428	-1.6365699	0.0169	0.1115
REACTOME_DEVELOPMENTAL_BIOLOGY	102	-0.37862894	-1.6476864	0.0000	0.1164
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	80	-0.3925666	-1.6609098	0.0026	0.2254
HALLMARK_MYOGENESIS	44	-0.45492598	-1.6771286	0.0113	0.0206
REACTOME_G_ALPHA1213_SIGNALLING_EVENTS	16	-0.5798612	-1.6777186	0.0113	0.1061
HALLMARK_HYPOXIA	59	-0.4239711	-1.6815752	0.0027	0.0246
HALLMARK_APICAL_JUNCTION	59	-0.42030552	-1.6821451	0.0110	0.0324
REACTOME_AXON_GUIDANCE	83	-0.41057375	-1.7237672	0.0030	0.0818
REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL	21	-0.57079726	-1.7754589	0.0102	0.0579
HALLMARK_UV_RESPONSE_DN	35	-0.5443186	-1.907133	0.0000	0.0060
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH	19	-0.6426916	-1.9113427	0.0000	0.0189
REACTOME_COLLAGEN_FORMATION	18	-0.67500585	-1.9983647	0.0000	0.0100
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	20	-0.66631	-2.05025	0.0000	0.0068
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	36	-0.5653549	-2.0548573	0.0000	0.0023
KEGG_FOCAL_ADHESION	72	-0.528412	-2.1093404	0.0000	0.0019
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	77	-0.53468835	-2.2429752	0.0000	0.0000

B

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REACTOME_PEPTIDE_CHAIN_ELONGATION	76	0.6214367	2.3735838	0	0
KEGG_RIBOSOME	75	0.632319	2.3656912	0	0
REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_EXON_JUNCTION_COMPLEX	85	0.5903059	2.2877703	0	0
REACTOME_SRP_DEPENDENT_COTRANSLATIONAL_PROTEIN_TARGETING_TO_MEMBRANE	85	0.5764691	2.2310007	0	0
REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION	96	0.5299217	2.0773249	0	4.05E-04
REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLICATION	89	0.5065527	1.9796326	0	0.003069731
REACTOME_TRANSLATION	121	0.47664908	1.939665	0	0.004494937
REACTOME_INFLUENZA_LIFE_CYCLE	116	0.45196784	1.8209221	0	0.017631909
HALLMARK_INFLAMMATORY_RESPONSE	21	0.559271	1.629521	0.018644068	0.185041
HALLMARK_MYC_TARGETS_V2	40	0.4758651	1.6158905	0.014308427	0.102411866
REACTOME_METABOLISM_OF_MRNA	172	0.36721912	1.5833695	0.001340483	0.2099004
HALLMARK_CHOLESTEROL_HOMEOSTASIS	27	-0.4887721	-1.610667	0.009756098	0.24410538