

Reactome

Supplementary File 4 Significant (FDR-adjusted p-value < 0.075) Reactome pathways based on GSEA with addition of modified cluster names from EnrichmentMap, AutoAnnotate, and WordCloud analysis.

Reactome ID	Reactome	Normalized enrichment score CDM3vsM0	Normalized enrichment score CDM3vsCDM0	FDR-adjusted p-value CDM3vsM0	FDR-adjusted p-value CDM3vsCDM0	Geneset size	Reactome pathway identified in small intestinal biopsy GSEA	Cluster name
R-HSA-909733	Interferon alpha beta signaling	2,16	2,45	0,00030	0	66	Yes	interferon signaling
R-HSA-201722.4	Formation of the beta-catenin:TCF transactivating complex	1,93	1,15	0,029	1	91	Yes	
R-HSA-913531	Interferon Signaling	1,62	2,27	0,33	0	191	Yes	interferon signaling
R-HSA-877300	Interferon gamma signaling	1,42	2,12	0,61	0,00070	90	Yes	interferon signaling
R-HSA-977444.1	GABA B receptor activation	1,40	2,03	0,66	0,0030	39	No	activation of GABA B receptors
R-HSA-991365.1	Activation of GABAB receptors	1,39	2,03	0,66	0,0037	39	No	activation of GABA B receptors
R-HSA-977443.1	GABA receptor activation	1,33	1,89	0,66	0,026	55	No	activation of GABA B receptors
R-HSA-380108	Chemokine receptors bind chemokines	-0,90	-1,77	0,79	0,042	48	Yes	
R-HSA-8868773.2	rRNA processing in the nucleus and cytosol	-0,98	-1,70	0,69	0,075	193	No	translational processes
R-HSA-6791226.3	Major pathway of rRNA processing in the nucleolus and cytosol	-1,00	-1,72	0,65	0,066	183	No	translational processes
R-HSA-72695	Formation of the ternary complex, and subsequently, the 43S complex	-1,21	-1,87	0,39	0,015	52	No	translational processes
R-HSA-72662	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S	-1,24	-1,89	0,36	0,013	60	No	translational processes

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R-HSA-5223345.4	Miscellaneous transport and binding events	-1,24	-1,83	0,36	0,025	24	No	
R-HSA-168273	Influenza Viral RNA Transcription and Replication	-1,25	-1,81	0,36	0,030	131	No	translational processes
R-HSA-72649.3	Translation initiation complex formation	-1,31	-1,89	0,31	0,014	59	No	translational processes
R-HSA-2408557	Selenocysteine synthesis	-1,35	-2,05	0,29	0,0019	93	No	translational processes
R-HSA-2408522.2	Selenoamino acid metabolism	-1,35	-1,89	0,29	0,013	116	No	translational processes
R-HSA-901042.2	Calnexin calreticulin cycle	-1,36	-1,75	0,29	0,049	26	No	
R-HSA-72702.3	Ribosomal scanning and start codon recognition	-1,37	-1,89	0,28	0,014	59	No	translational processes
R-HSA-168255.3	Influenza Life Cycle	-1,37	-1,79	0,27	0,034	139	No	translational processes
R-HSA-140877.2	Formation of Fibrin Clot (Clotting Cascade)	-1,41	-1,71	0,25	0,069	39	No	
R-HSA-156842.2	Eukaryotic Translation Elongation	-1,41	-2,11	0,25	0,0010	94	No	translational processes
R-HSA-156902	Peptide chain elongation	-1,44	-2,07	0,23	0,0015	90	No	translational processes
R-HSA-2559585	Oncogene Induced Senescence	-1,45	-1,77	0,24	0,042	33	No	
R-HSA-192823.3	Viral mRNA Translation	-1,46	-2,05	0,24	0,0018	90	No	translational processes

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R-HSA-72764	Eukaryotic Translation Termination	-1,46	-2,06	0,24	0,0017	94	No	translational processes
R-HSA-975957	Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)	-1,50	-1,99	0,21	0,0038	116	No	translational processes
R-HSA-72689.2	Formation of a pool of free 40S subunits	-1,50	-2,21	0,21	0,00080	102	No	translational processes
R-HSA-927802.2	Nonsense-Mediated Decay (NMD)	-1,51	-2,00	0,22	0,0037	116	No	translational processes
R-HSA-1799339.1	SRP-dependent cotranslational protein targeting to membrane	-1,53	-2,14	0,21	0,00050	113	No	translational processes
R-HSA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	-1,56	-2,03	0,20	0,0022	96	No	translational processes
R-HSA-72613	Eukaryotic Translation Initiation	-1,59	-2,16	0,18	0,00040	120	No	translational processes
R-HSA-72737	Cap-dependent Translation Initiation	-1,59	-2,17	0,18	0,00050	120	No	translational processes
R-HSA-156827	L13a-mediated translational silencing of Ceruloplasmin expression	-1,61	-2,21	0,17	0,00030	112	No	translational processes
R-HSA-72706.2	GTP hydrolysis and joining of the 60S ribosomal subunit	-1,63	-2,21	0,18	0,00040	113	No	translational processes
R-HSA-202733.3	Cell surface interactions at the vascular wall	-1,66	-1,96	0,17	0,0059	140	No	
R-HSA-1236394	Signaling by ERBB4	-1,90	-1,70	0,042	0,072	41	No	
R-HSA-5654733	Negative regulation of FGFR4 signaling	-2,03	-1,62	0,0090	0,12	27	No	FGFR signaling

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R-HSA-5654726	Negative regulation of FGFR1 signaling	-2,03	-1,63	0,010	0,12	26	No	FGFR signaling
R-HSA-5654727	Negative regulation of FGFR2 signaling	-2,04	-1,63	0,011	0,11	28	No	FGFR signaling
R-HSA-5654732	Negative regulation of FGFR3 signaling	-2,05	-1,63	0,012	0,12	23	No	FGFR signaling
R-HSA-5654736	Signaling by FGFR1	-2,05	-1,64	0,016	0,11	42	No	FGFR signaling
R-HSA-5654741.2	Signaling by FGFR3	-2,05	-1,50	0,023	0,23	33	No	FGFR signaling
R-HSA-5654743	Signaling by FGFR4	-2,08	-1,68	0,029	0,085	36	No	FGFR signaling