

## Gene Ontology

**Supplementary File 3** Significant (FDR-adjusted p-value < 0.075) GO terms based on GSEA with addition of modified cluster names from EnrichmentMap, AutoAnnotate, and WordCloud analysis.

Gene Ontology ID	Gene Ontology Biological Process	Normalized enrichment score CDM3vsM0	Normalized enrichment score CDM3vsCDM0	FDR-adjusted p-value CDM3vsM0	FDR-adjusted p-value CDM3vsCDM0	Geneset size	GO term identified in small intestinal biopsy GSEA	Cluster name
GO:0034340	response to type I interferon	2,35	2,58	0	0	68	Yes	type I interferon response
GO:0060337	type I interferon signaling pathway	2,31	2,54	0	0	64	Yes	type I interferon response
GO:0071357	cellular response to type I interferon	2,30	2,53	0	0	64	Yes	type I interferon response
GO:0051607	defense response to virus	2,16	2,49	0,00030	0	92	Yes	defense response to virus
GO:0009615	response to virus	2,07	2,40	0,0036	0	186	Yes	defense response to virus
GO:0048147	negative regulation of fibroblast proliferation	2,03	-0,82	0,0080	0,97	18	No	
GO:1903901	negative regulation of viral life cycle	2,00	2,37	0,012	0	70	Yes	negative regulation of viral replikation
GO:0045071	negative regulation of viral genome replication	1,99	2,37	0,012	0	49	Yes	negative regulation of viral replikation
GO:0035455	response to interferon-alpha	1,99	2,08	0,012	0,0019	17	Yes	
GO:0048525	negative regulation of viral process	1,99	2,35	0,011	0	84	Yes	negative regulation of viral replikation
GO:0098542	defense response to other organism	1,95	2,13	0,018	0,00080	309	Yes	defense response to virus
GO:0035148	tube formation	1,94	1,41	0,020	0,62	55	No	tube formation

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GO:0060562	epithelial tube morphogenesis	1,90	0,97	0,034	0,99	135	No	tube formation
GO:0072175	epithelial tube formation	1,89	1,19	0,038	0,97	47	No	tube formation
GO:0016331	morphogenesis of embryonic epithelium	1,89	1,17	0,038	0,95	48	No	tube formation
GO:0046596	regulation of viral entry into host cell	1,87	1,72	0,046	0,15	26	Yes	negative regulation of viral replikation
GO:0048732	gland development	1,87	1,11	0,044	0,98	115	No	
GO:0050691	regulation of defense response to virus by host	1,84	1,84	0,064	0,051	31	Yes	regulation of defense response to virus
GO:0002230	positive regulation of defense response to virus by host	1,84	1,72	0,062	0,15	22	Yes	regulation of defense response to virus
GO:1905954	positive regulation of lipid localization	1,82	1,17	0,074	0,95	56	No	
GO:0001838	embryonic epithelial tube formation	1,81	1,14	0,075	0,96	42	No	tube formation
GO:0045428	regulation of nitric oxide biosynthetic process	1,81	1,05	0,072	1	32	No	
GO:0014020	primary neural tube formation	1,81	1,16	0,070	0,95	34	No	tube formation
GO:1900744	regulation of p38MAPK cascade	1,80	1,19	0,073	0,96	28	No	
GO:1903900	regulation of viral life cycle	1,78	2,12	0,085	0,00090	125	No	negative regulation of viral replikation

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GO:0043901	negative regulation of multi-organism process	1,77	2,20	0,090	0,00010	136	No	negative regulation of viral replikation
GO:0045824	negative regulation of innate immune response	1,76	1,95	0,10	0,014	35	No	
GO:0035456	response to interferon-beta	1,74	2,07	0,11	0,0021	19	No	
GO:0045069	regulation of viral genome replication	1,72	2,08	0,13	0,0016	78	No	negative regulation of viral replikation
GO:0050792	regulation of viral process	1,66	2,06	0,21	0,0024	162	No	negative regulation of viral replikation
GO:0032479	regulation of type I interferon production	1,64	1,91	0,24	0,021	98	No	regulation of type I interferon production
GO:0043903	regulation of symbiosis, encompassing mutualism through parasitism	1,59	2,00	0,34	0,0063	176	No	negative regulation of viral replikation
GO:0015718	monocarboxylic acid transport	1,59	2,00	0,34	0,0062	83	No	
GO:0034341	response to interferon-gamma	1,54	2,10	0,39	0,0013	136	No	response to interferon-gamma
GO:0060333	interferon-gamma-mediated signaling pathway	1,50	2,22	0,45	0,00010	69	No	response to interferon-gamma
GO:0071346	cellular response to interferon-gamma	1,49	2,06	0,47	0,0023	120	No	response to interferon-gamma
GO:0032727	positive regulation of interferon-alpha production	1,41	1,87	0,61	0,036	19	No	regulation of type I interferon production
GO:0032481	positive regulation of type I interferon production	1,32	1,89	0,67	0,027	55	No	regulation of type I interferon production

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GO:0097696	STAT cascade	1,32	1,90	0,68	0,022	35	No	JAK-STAT cascade
GO:0007259	JAK-STAT cascade	1,32	1,91	0,67	0,022	35	No	JAK-STAT cascade
GO:0045047	protein targeting to ER	-1,32	-2,00	0,56	0,037	98	No	protein targeting to membrane/ER
GO:0006614	SRP-dependent cotranslational protein targeting to membrane	-1,36	-2,00	0,55	0,042	89	No	protein targeting to membrane/ER
GO:0072599	establishment of protein localization to endoplasmic reticulum	-1,37	-1,95	0,55	0,049	102	No	protein targeting to membrane/ER
GO:0070972	protein localization to endoplasmic reticulum	-1,39	-1,93	0,54	0,049	116	No	protein targeting to membrane/ER
GO:0006612	protein targeting to membrane	-1,40	-1,95	0,53	0,044	127	No	protein targeting to membrane/ER
GO:0006613	cotranslational protein targeting to membrane	-1,49	-2,14	0,55	0,0093	95	No	protein targeting to membrane/ER
GO:0000184	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	-1,52	-1,95	0,54	0,058	112	No	protein targeting to membrane/ER
GO:0006413	translational initiation	-1,58	-2,01	0,57	0,054	123	No	protein targeting to membrane/ER