

GeDiPNet Cluster 552 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See scripts/build_cluster_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-19 23:21:07

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
IL-17 signaling pathway	KEGG	3	IL1B, MUC5B, IL17A	94	9	42.59	3.770e-5	8.711e-4
Defective SFTPA2 causes idiopathic pulmonary fibrosis (IPF)	Reactome	1	SFTPA2	1	9	1334.44	7.494e-4	9.089e-3
Inflammatory bowel disease	KEGG	2	IL1B, IL17A	66	9	40.44	1.044e-3	1.172e-2
Pertussis	KEGG	2	IL1B, SFTPA2	78	9	34.22	1.455e-3	1.505e-2
Salivary secretion	KEGG	2	MUC5B, ADRB2	93	9	28.70	2.061e-3	1.944e-2
Rheumatoid arthritis	KEGG	2	IL1B, IL17A	95	9	28.09	2.150e-3	2.009e-2
Interleukin-4 and Interleukin-13 signaling	Reactome	2	IL1B, IL17A	108	9	24.71	2.768e-3	2.405e-2
Th17 cell differentiation	KEGG	2	IL1B, IL17A	109	9	24.49	2.819e-3	2.438e-2
CLEC7A/inflammasome pathway	Reactome	1	IL1B	6	9	222.41	4.489e-3	3.394e-2
Toll Like Receptor TLR1:TLR2 Cascade	Reactome	1	SFTPA2	6	9	222.41	4.489e-3	3.394e-2
Alcoholic liver disease	KEGG	2	IL1B, IL17A	144	9	18.53	4.864e-3	3.589e-2
Defective CSF2RB causes pulmonary surfactant metabolism dysfunction 5 (SMDP5)	Reactome	1	SFTPA2	7	9	190.63	5.235e-3	3.760e-2
Defective CSF2RA causes pulmonary surfactant metabolism dysfunction 4 (SMDP4)	Reactome	1	SFTPA2	7	9	190.63	5.235e-3	3.760e-2
Interleukin-17 signaling	Reactome	1	IL17A	8	9	166.81	5.981e-3	4.097e-2
Interleukin-1 processing	Reactome	1	IL1B	8	9	166.81	5.981e-3	4.097e-2