

GeDiPNet Cluster 202 -- 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: 2026-10-08 03:30:07. · Rows: 15 · Generated: 2026-10-08 06:23:20

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Proteoglycans in cancer	KEGG	9	MAPK3, RPS6KB1, STAT3, CASP3, HGF, MET, SMAD2, TGFB1, ITGB3	204	22	24.08	4.055e-11	6.039e-9
MET activates STAT3	Reactome	3	STAT3, HGF, MET	3	22	545.91	5.335e-9	4.841e-7
Th17 cell differentiation	KEGG	6	AHR, MAPK3, STAT3, SMAD2, TGFB1, IL6ST	109	22	30.05	3.226e-8	2.400e-6
Pathways in cancer	KEGG	9	MAPK3, RPS6KB1, STAT3, CASP3, HGF, MET, SMAD2, TGFB1, IL6ST	533	22	9.22	1.851e-7	1.122e-5
Gastric cancer	KEGG	6	MAPK3, RPS6KB1, HGF, MET, SMAD2, TGFB1	150	22	21.84	2.172e-7	1.285e-5
Pancreatic cancer	KEGG	5	MAPK3, RPS6KB1, STAT3, SMAD2, TGFB1	77	22	35.45	2.297e-7	1.348e-5
EGFR tyrosine kinase inhibitor resistance	KEGG	5	MAPK3, RPS6KB1, STAT3, HGF, MET	80	22	34.12	2.785e-7	1.603e-5
Colorectal cancer	KEGG	5	MAPK3, RPS6KB1, CASP3, SMAD2, TGFB1	87	22	31.37	4.245e-7	2.317e-5
Hepatocellular carcinoma	KEGG	6	MAPK3, RPS6KB1, HGF, MET, SMAD2, TGFB1	170	22	19.27	4.553e-7	2.466e-5
AGE-RAGE signaling pathway in diabetic complications	KEGG	5	MAPK3, STAT3, CASP3, SMAD2, TGFB1	101	22	27.03	8.950e-7	4.412e-5
Renal cell carcinoma	KEGG	4	MAPK3, HGF, MET, TGFB1	70	22	31.19	7.151e-6	2.596e-4
Non-small cell lung cancer	KEGG	4	MAPK3, STAT3, HGF, MET	73	22	29.91	8.458e-6	2.991e-4
MET activates PTPN11	Reactome	2	HGF, MET	5	22	218.36	3.193e-5	8.923e-4
MET interacts with TNS proteins	Reactome	2	HGF, MET	5	22	218.36	3.193e-5	8.923e-4
Chemical carcinogenesis - receptor activation	KEGG	5	AHR, CYP1A2, MAPK3, RPS6KB1, STAT3	215	22	12.70	3.605e-5	9.872e-4