

GeDiPNet Cluster 562 -- 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: 2026-10-20 00:02:45

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Chemical carcinogenesis - receptor activation	KEGG	6	CYP3A4, FOS, GSTM1, GSTT1, KPNB1, RAF1	215	28	11.97	8.320e-6	2.504e-4
Fluid shear stress and atherosclerosis	KEGG	5	CAV1, FOS, GSTM1, GSTT1, TP53	141	28	15.21	1.643e-5	4.418e-4
Breast cancer	KEGG	5	ERBB2, FOS, RAF1, TP53, WNT4	148	28	14.49	2.077e-5	5.376e-4
Platinum drug resistance	KEGG	4	ERBB2, GSTM1, GSTT1, TP53	75	28	22.88	2.564e-5	6.398e-4
Hepatocellular carcinoma	KEGG	5	GSTM1, GSTT1, RAF1, TP53, WNT4	170	28	12.62	4.044e-5	9.224e-4
Endocrine resistance	KEGG	4	ERBB2, FOS, RAF1, TP53	99	28	17.33	7.641e-5	1.531e-3
Proteoglycans in cancer	KEGG	5	CAV1, ERBB2, RAF1, TP53, WNT4	204	28	10.51	9.625e-5	1.839e-3
Bladder cancer	KEGG	3	ERBB2, RAF1, TP53	41	28	31.39	1.140e-4	2.104e-3
Pathways in cancer	KEGG	7	ERBB2, FOS, GSTM1, GSTT1, RAF1, TP53, WNT4	533	28	5.63	1.709e-4	2.906e-3
Glutathione metabolism	KEGG	3	GPX6, GSTM1, GSTT1	59	28	21.81	3.381e-4	4.937e-3
Endometrial cancer	KEGG	3	ERBB2, RAF1, TP53	59	28	21.81	3.381e-4	4.937e-3
Gastric cancer	KEGG	4	ERBB2, RAF1, TP53, WNT4	150	28	11.44	3.790e-4	5.392e-3
Chemical carcinogenesis - DNA adducts	KEGG	3	CYP3A4, GSTM1, GSTT1	70	28	18.38	5.596e-4	7.287e-3
MAPK signaling pathway	KEGG	5	PPP3CA, ERBB2, FOS, RAF1, TP53	299	28	7.17	5.677e-4	7.371e-3
Prolactin signaling pathway	KEGG	3	FOS, RAF1, SOCS7	71	28	18.12	5.834e-4	7.520e-3