

GeDiPNet Cluster 546 -- 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 23:22:10

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Inhibition of Signaling by Overexpressed EGFR	Reactome	3	AREG, BTC, EREG	8	9	500.42	1.627e-8	1.141e-6
EGFR interacts with phospholipase C-gamma	Reactome	3	AREG, BTC, EREG	9	9	444.81	2.439e-8	1.627e-6
Signaling by EGFR	Reactome	3	AREG, BTC, EREG	11	9	363.94	4.787e-8	2.927e-6
GRB2 events in EGFR signaling	Reactome	3	AREG, BTC, EREG	13	9	307.95	8.292e-8	4.734e-6
SHC1 events in EGFR signaling	Reactome	3	AREG, BTC, EREG	14	9	285.95	1.055e-7	5.861e-6
GAB1 signalosome	Reactome	3	AREG, BTC, EREG	17	9	235.49	1.969e-7	1.010e-5
Estrogen-dependent nuclear events downstream of ESR-membrane signaling	Reactome	3	AREG, BTC, EREG	23	9	174.06	5.115e-7	2.328e-5
EGFR downregulation	Reactome	3	AREG, BTC, EREG	31	9	129.14	1.294e-6	5.225e-5
Extra-nuclear estrogen signaling	Reactome	3	AREG, BTC, EREG	58	9	69.02	8.796e-6	2.622e-4
Constitutive Signaling by Aberrant PI3K in Cancer	Reactome	3	AREG, BTC, EREG	75	9	53.38	1.913e-5	5.020e-4
PI3K events in ERBB4 signaling	Reactome	2	BTC, EREG	10	9	266.89	2.239e-5	5.722e-4
Signaling by ERBB4	Reactome	2	BTC, EREG	11	9	242.63	2.736e-5	6.732e-4
ErbB signaling pathway	KEGG	3	AREG, BTC, EREG	86	9	46.55	2.887e-5	7.020e-4
PIP3 activates AKT signaling	Reactome	3	AREG, BTC, EREG	93	9	43.05	3.651e-5	8.492e-4
ERBB2 Activates PTK6 Signaling	Reactome	2	BTC, EREG	13	9	205.30	3.877e-5	8.916e-4