

GeDiPNet Cluster 254 -- 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 07:59:00

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Bile secretion	KEGG	13	SLCO1B1, UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1, ABCC2, SLCO1B3	90	26	66.72	9.164e-22	8.474e-19
Glucuronidation	Reactome	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	22	26	188.97	1.070e-19	7.154e-17
Ascorbate and aldarate metabolism	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	30	26	138.58	3.047e-18	1.633e-15
Pentose and glucuronate interconversions	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	36	26	115.48	1.990e-17	9.048e-15
Porphyrin metabolism	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	46	26	90.38	2.299e-16	8.732e-14
Drug metabolism - other enzymes	KEGG	10	DPYS, UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	81	26	57.03	5.339e-16	1.968e-13
Steroid hormone biosynthesis	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	63	26	65.99	4.832e-15	1.494e-12
Retinol metabolism	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	68	26	61.14	9.997e-15	2.889e-12
Chemical carcinogenesis - DNA adducts	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	70	26	59.39	1.316e-14	3.678e-12
Drug metabolism - cytochrome P450	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	73	26	56.95	1.957e-14	5.362e-12
Metabolism of xenobiotics by cytochrome P450	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	79	26	52.62	4.117e-14	1.065e-11
Biosynthesis of cofactors	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	154	26	27.00	1.922e-11	3.100e-9
Chemical carcinogenesis - receptor activation	KEGG	9	UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT1A1	215	26	19.34	3.833e-10	4.554e-8
Heme degradation	Reactome	4	SLCO1B1, UGT1A4, ABCC2, SLCO1B3	14	26	131.98	1.702e-8	1.358e-6
Folate transport and metabolism	KEGG	4	SLCO1B1, ABCC2, SLCO1B3, SLCO1B3-SLCO1B7	31	26	59.60	5.218e-7	2.769e-5