

GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test ($P(X \geq k)$), Benjamini-Hochberg FDR-corrected across all tested pairs. Corroborated Shared Genes: count of shared genes backed by ≥ 2 distinct disease_gdp.main_source values combined across both diseases (e.g. GWAS-backed for one, ClinVar-backed for the other still counts); Shared Gene Names lists each gene's own source count in parentheses. Overlap Coefficient: shared genes / MIN(each disease's own total gene count) -- complements the Jaccard-based Similarity Score by showing how much of the SMALLER disease's entire known gene-set is covered by this pair, which Jaccard (dividing by the union) can understate. Shared Cluster: cluster id if both diseases fall in the same label-propagation cluster (scripts/build_disease_clusters.php), blank otherwise. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-10 03:00:13. Filters applied: disease name contains "Carcinogenesis" (13 matching pairs). · Rows: 13 · Generated: 2026-10-10 13:29:44

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Carcinogenesis	Lymphatic metastasis	4	0	BRAF (1), MET (1), ERBB2 (1), CDKN2A (1)	0.08889	0.22222	3.514e-8	2.645e-7	
B-lymphoblastic leukemia/lymphoma	Carcinogenesis	3	3	GATA3 (2), CDKN2A (2), ABL1 (2)	0.08571	0.16667	1.285e-6	7.398e-6	3
Carcinogenesis	Nasopharyngeal carcinoma	3	0	KRAS (1), ERBB2 (1), CDKN2A (1)	0.07895	0.16667	2.037e-6	1.130e-5	3
Carcinogenesis	Pancreatic ductal carcinoma	3	0	NFE2L2 (1), KRAS (1), CDKN2A (1)	0.06383	0.16667	5.907e-6	3.027e-5	
Carcinogenesis	Endometrial hyperplasia	2	2	KRAS (2), CDKN2A (2)	0.07407	0.20000	5.776e-5	2.331e-4	3
Carcinogenesis	Cardiofaciocutaneous syndrome	2	2	BRAF (7), KRAS (8)	0.06897	0.16667	8.460e-5	3.019e-4	
Barakat syndrome	Carcinogenesis	1	1	GATA3 (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Carcinogenesis	Gestational trophoblastic disease	1	0	POU5F1 (1)	0.05263	1.00000	1.169e-3	1.895e-3	3
Carcinogenesis	hypoparathyroidism-deafness-renal disease syndrome	1	1	GATA3 (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Carcinogenesis	Osteofibrous dysplasia	1	1	MET (5)	0.05263	1.00000	1.169e-3	1.895e-3	
Carcinogenesis	papillary renal cell carcinoma	1	1	MET (2)	0.05263	1.00000	1.169e-3	1.895e-3	
17p13.3 microduplication syndrome	Carcinogenesis	1	1	PAFAH1B1 (3)	0.05000	0.50000	2.337e-3	3.243e-3	
Carcinogenesis	Primary adrenal insufficiency	1	1	CUX1 (2)	0.05000	0.50000	2.337e-3	3.243e-3	