

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Head and neck neoplasms" (12 matching pairs). · Rows: 12 · Generated: 2026-10-11 09:12:25

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Head and neck neoplasms	Oropharyngeal cancer	16	0	LAMC3 (1), RERGL (1), IL1A (1), IL1B (1), CCDC192 (1), HLA-DQB1 (1), CTLA4 (1), MACO1 (1), STK31 (1), CBLB (1), ADH1C (1), NAA25 (1)	0.17391	0.34043	4.368e-28	1.244e-26	
Head and neck neoplasms	Upper aerodigestive tract neoplasm	17	0	LAMC3 (1), RERGL (1), IL1A (1), IL1B (1), CCDC192 (1), HLA-DQB1 (1), TBC1D1 (1), CTLA4 (1), MACO1 (1), STK31 (1), CBLB (1), ADH1C (1)	0.08854	0.36170	1.884e-22	3.985e-21	
Genetic predisposition to disease	Head and neck neoplasms	7	2	IL1B (2), GPX1 (1), RAD51 (1), ADH1C (2), BAP1 (1), XRCC3 (1), TGFA (1)	0.07865	0.14894	1.037e-10	1.029e-9	
Head and neck neoplasms	Uterine neoplasms	6	0	EGFR (1), RARB (1), VEGFA (1), CSF3 (1), BAP1 (1), APOBEC3B (1)	0.07500	0.15789	1.490e-9	1.331e-8	
Head and neck neoplasms	Mucositis	3	1	IL1B (2), CSF3 (1), TGFA (1)	0.05660	0.37500	1.477e-6	8.418e-6	
1p21.3 microdeletion syndrome	Head and neck neoplasms	1	1	DPYD (3)	0.02083	1.00000	3.052e-3	4.025e-3	
acute myeloid leukemia	Head and neck neoplasms	1	1	CEBPA (2)	0.02083	1.00000	3.052e-3	4.025e-3	
Dihydropyrimidine dehydrogenase deficiency	Head and neck neoplasms	1	1	DPYD (6)	0.02083	1.00000	3.052e-3	4.025e-3	
Head and neck neoplasms	Hepatoerythropoietic porphyria	1	1	UROD (4)	0.02083	1.00000	3.052e-3	4.025e-3	
Head and neck neoplasms	hyper-ige syndrome 6, autosomal dominant, with recurrent infections	1	1	STAT6 (2)	0.02083	1.00000	3.052e-3	4.025e-3	
Head and neck neoplasms	hypercholesterolemia, familial, 4	1	1	LDLRAP1 (2)	0.02083	1.00000	3.052e-3	4.025e-3	
Bronchopneumonia	Head and neck neoplasms	1	0	CBLB (1)	0.01923	0.20000	1.517e-2	1.678e-2	