

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 "Liver cancer" (6 matching pairs). · Rows: 6 · Generated: 2026-10-11 08:57:30

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Intrahepatic bile duct cancer	Liver cancer	6	0	GATAD2A (1), MAU2 (1), HLA-DQB1 (1), IFNL3 (1), PNPLA3 (1), KLHL8 (1)	0.66667	1.00000	1.514e-21	3.066e-20	
Bile duct cancer	Liver cancer	2	0	MAPK1 (1), YPEL1 (1)	0.20000	0.66667	7.084e-7	4.269e-6	
Autoimmune pancreatitis	Liver cancer	1	1	HLA-DQB1 (2)	0.10000	0.50000	1.039e-3	1.739e-3	
Liver cancer	Tongue cancer	1	0	HLA-DQB1 (1)	0.10000	0.50000	1.039e-3	1.739e-3	
Chromosome 22q11.2 microdeletion syndrome	Liver cancer	1	1	MAPK1 (3)	0.09091	0.33333	1.558e-3	2.376e-3	
Benign mucous membrane pemphigoid with ocular involvement	Liver cancer	1	1	HLA-DQB1 (2)	0.09091	0.33333	1.558e-3	2.376e-3	