

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: 2026-10-08 03:00:13. Filters applied: disease name contains "Gallbladder disease" (5 matching pairs). · Rows: 5 · Generated: 2026-10-08 19:04:09

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Gallbladder disease	Sitosterolemia	2	2	ABCG8 (7), ABCG5 (7)	0.22222	0.66667	5.313e-7	3.282e-6	
Gallbladder disease	Intrahepatic cholestasis of pregnancy	2	2	ABCG8 (4), ABCB4 (5)	0.07692	0.28571	3.353e-5	1.552e-4	
Gallbladder disease	progressive familial intrahepatic cholestasis type 3	1	1	ABCB4 (4)	0.12500	1.00000	4.546e-4	9.697e-4	
Gallbladder disease	Xanthomatosis	1	1	ABCG5 (2)	0.11111	0.50000	9.090e-4	1.575e-3	
Duodenitis	Gallbladder disease	1	1	ABCG8 (4)	0.06667	0.14286	3.632e-3	4.667e-3	