

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 "Duodenal ulcer" (12 matching pairs). · Rows: 12 · Generated: 2026-10-11 11:02:48

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Duodenal ulcer	Gastric ulcer	16	4	CCKBR (1), FUT2 (1), MECOM (1), PRKAA1 (1), TTC33 (1), PTGS2 (2), ABO (3), NOS2 (2), JRK (1), PSCA (3), PLCL2 (1), ZNF800 (1)	0.21333	0.43243	3.848e-31	1.217e-29	
Duodenal ulcer	Peptic ulcer disease	17	3	CCKBR (1), FUT2 (1), MECOM (1), PRKAA1 (1), TTC33 (1), ABO (3), JRK (1), PSCA (3), PLCL2 (1), MUC1 (1), GAST (3), SLC22A3 (1)	0.11972	0.45946	7.214e-27	1.950e-25	
Curling ulcer	Duodenal ulcer	6	6	PLA2G4A (2), PTGS2 (2), TGFB1 (2), ABO (3), NOS2 (2), PSCA (3)	0.15789	1.00000	1.257e-16	2.003e-15	
Corneal edema	Duodenal ulcer	2	0	PRTFDC1 (1), ARHGAP21 (1)	0.05000	0.50000	3.361e-5	1.550e-4	
Duodenal ulcer	Hepatic insufficiency	2	2	TGFB1 (2), NOS2 (2)	0.04444	0.22222	2.001e-4	5.496e-4	
Albinism	Duodenal ulcer	1	1	TPCN2 (2)	0.02632	1.00000	2.403e-3	3.313e-3	
Cernunnos-XLF deficiency	Duodenal ulcer	1	1	NHEJ1 (2)	0.02632	1.00000	2.403e-3	3.313e-3	
Cryptogenic multifocal ulcerous stenosing enteritis	Duodenal ulcer	1	1	PLA2G4A (3)	0.02632	1.00000	2.403e-3	3.313e-3	
Cytosolic phospholipase-a2 alpha deficiency associated bleeding disorder	Duodenal ulcer	1	1	PLA2G4A (5)	0.02632	1.00000	2.403e-3	3.313e-3	
Duodenal ulcer	leukemia, acute myeloid, susceptibility to	1	1	FLT3 (2)	0.02632	1.00000	2.403e-3	3.313e-3	
Duodenal ulcer	MECOM-associated syndrome	1	1	MECOM (2)	0.02632	1.00000	2.403e-3	3.313e-3	
Duodenal ulcer	PLD1-related congenital heart disease	1	1	PLD1 (2)	0.02632	1.00000	2.403e-3	3.313e-3	