

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 "Appendicitis" (9 matching pairs). · Rows: 9 · Generated: 2026-10-08 03:56:43

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Appendiceal disorder	Appendicitis	4	0	MND1 (1), TMEM131L (1), FFAR2 (1), KRTDAP (1)	0.12903	1.00000	1.170e-11	1.285e-10	
Appendicitis	Hemophilia a	3	2	F2 (1), IL10 (2), IFNG (2)	0.06818	0.18750	3.674e-6	1.960e-5	
Appendicitis	Glucose-6-phosphate dehydrogenase deficiency	2	2	IL10 (2), IFNG (2)	0.05882	0.40000	3.656e-5	1.682e-4	
Appendicitis	Autoimmune hepatitis	3	2	F2 (1), IL10 (2), IFNG (2)	0.04545	0.10000	5.377e-5	2.317e-4	
Appendicitis	Testicular disease	2	1	PPP3CA (3), INHBB (1)	0.04651	0.14286	3.291e-4	7.782e-4	
Appendicitis	Arthrogryposis, cleft palate, craniosynostosis, and impaired intellectual development	1	1	PPP3CA (4)	0.03226	1.00000	1.948e-3	2.826e-3	
Appendicitis	Chromosome 2p16.1-p15 deletion syndrome	1	1	USP34 (2)	0.03226	1.00000	1.948e-3	2.826e-3	
Appendicitis	nephronophthisis 1	1	1	NPHP1 (2)	0.03226	1.00000	1.948e-3	2.826e-3	
Appendicitis	periventricular nodular heterotopia 7	1	1	NEDD4L (2)	0.03226	1.00000	1.948e-3	2.826e-3	