

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: 2026-10-09 03:00:13. Filters applied: disease name contains "ITPKB deficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 05:41:53

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
ITPKB deficiency	Urticaria	1	1	ITPKB (2)	0.02128	1.00000	2.987e-3	3.947e-3	
Hyperopia	ITPKB deficiency	1	1	ITPKB (2)	0.01250	1.00000	5.131e-3	6.275e-3	
Colonic neoplasms	ITPKB deficiency	1	1	ITPKB (2)	0.00490	1.00000	1.318e-2	1.468e-2	
Dental caries	ITPKB deficiency	1	1	ITPKB (2)	0.00431	1.00000	1.500e-2	1.661e-2	
ITPKB deficiency	Respiratory system disease	1	1	ITPKB (2)	0.00413	1.00000	1.565e-2	1.727e-2	