

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: 2026-10-14 03:00:13. Filters applied: disease name contains "Riboflavin transporter deficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-14 08:36:48

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brown-vialetto-van laere syndrome	Riboflavin transporter deficiency	2	2	SLC52A3 (7), SLC52A2 (6)	0.50000	1.00000	2.531e-8	1.927e-7	
Auditory neuropathy	Riboflavin transporter deficiency	2	2	SLC52A3 (2), SLC52A2 (2)	0.06061	0.66667	1.175e-5	5.746e-5	
maternal riboflavin deficiency	Riboflavin transporter deficiency	1	1	SLC52A1 (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Riboflavin deficiency	Riboflavin transporter deficiency	1	1	SLC52A1 (3)	0.25000	1.00000	1.948e-4	5.354e-4	
Bulbar palsy	Riboflavin transporter deficiency	1	1	SLC52A3 (2)	0.16667	0.33333	5.844e-4	1.156e-3	