

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 "Macular telangiectasia" (8 matching pairs). · Rows: 8 · Generated: 2026-10-11 07:11:38

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Macular telangiectasia	neurometabolic disorder due to serine deficiency	2	2	PHGDH (2), PSPH (2)	0.11765	0.66667	2.656e-6	1.444e-5	
Congenital hyperammonemia	Macular telangiectasia	1	1	CPS1 (2)	0.06250	1.00000	9.742e-4	1.665e-3	
Macular telangiectasia	Phosphoserine phosphatase deficiency	1	1	PSPH (3)	0.06250	1.00000	9.742e-4	1.665e-3	
Macular telangiectasia	Ocular dysgenesis	1	1	ELP4 (2)	0.06250	1.00000	9.742e-4	1.665e-3	
Macular telangiectasia	spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome	1	1	SLC1A4 (2)	0.06250	1.00000	9.742e-4	1.665e-3	
Hyperglycinuria	Macular telangiectasia	1	1	SLC6A20 (2)	0.05556	0.33333	2.920e-3	3.876e-3	
Glycinuria with/without oxalate urolithiasis	Macular telangiectasia	1	1	SLC6A20 (2)	0.05263	0.25000	3.891e-3	4.941e-3	
Iminoglycinuria	Macular telangiectasia	1	1	SLC6A20 (4)	0.05000	0.20000	4.862e-3	5.987e-3	