

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: 2026-10-21 12:58:11. Filters applied: disease name contains "Myopathy caused by variation in GMPPB" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 13:12:03

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Muscular dystrophy-dystroglycanopathy	Myopathy caused by variation in GMPPB	1	1	GMPPB (2)	0.25000	1.00000	1.937e-4	4.415e-4	
Congenital muscular dystrophy due to dystroglycanopathy	Myopathy caused by variation in GMPPB	1	1	GMPPB (3)	0.12500	1.00000	4.520e-4	8.264e-4	
Muscle eye brain disease	Myopathy caused by variation in GMPPB	1	1	GMPPB (4)	0.06250	1.00000	9.685e-4	1.497e-3	
Myopathy caused by variation in GMPPB	Walker-warburg syndrome	1	1	GMPPB (3)	0.05882	1.00000	1.033e-3	1.574e-3	
Autosomal recessive limb-girdle muscular dystrophy	Myopathy caused by variation in GMPPB	1	1	GMPPB (2)	0.04348	1.00000	1.420e-3	2.040e-3	