

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 "LAMA2-related muscular dystrophy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 12:12:18

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
LAMA2-related muscular dystrophy	Limb girdle muscular dystrophy	1	1	LAMA2 (2)	0.02564	1.00000	2.468e-3	3.371e-3	
LAMA2-related muscular dystrophy	Toxic epidermal necrolysis	1	1	LAMA2 (2)	0.02632	1.00000	2.403e-3	3.313e-3	
LAMA2-related muscular dystrophy	Polymicrogyria	1	1	LAMA2 (2)	0.03846	1.00000	1.624e-3	2.461e-3	
Congenital muscular dystrophy	LAMA2-related muscular dystrophy	1	1	LAMA2 (2)	0.04348	1.00000	1.429e-3	2.226e-3	
Congenital merosin-deficient muscular dystrophy	LAMA2-related muscular dystrophy	1	1	LAMA2 (2)	0.50000	1.00000	6.494e-5	2.331e-4	