

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Congenital structural myopathy" (9 matching pairs). · Rows: 9 · Generated: 2026-10-10 14:15:25

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital structural myopathy	X-linked myotubular myopathy	1	1	MTM1 (4)	0.07143	0.50000	1.558e-3	2.376e-3	
combined immunodeficiency due to STIM1 deficiency	Congenital structural myopathy	1	1	STIM1 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
Congenital generalized hypercontractile muscle stiffness syndrome	Congenital structural myopathy	1	1	TPM3 (3)	0.07692	1.00000	7.793e-4	1.405e-3	
Congenital structural myopathy	TPM3-related myopathy	1	1	TPM3 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
Congenital structural myopathy	Tubular aggregate myopathy	2	2	ORAI1 (4), STIM1 (4)	0.11111	0.28571	1.167e-5	5.715e-5	
Congenital structural myopathy	X-linked centronuclear myopathy	2	1	MTM1 (2), DNM2 (1)	0.15385	1.00000	5.568e-7	3.406e-6	
Congenital structural myopathy	Nemaline myopathy	3	2	ANKRD1 (1), NEB (7), TPM3 (4)	0.10714	0.25000	2.932e-7	1.904e-6	
Congenital fiber type disproportion myopathy	Congenital structural myopathy	3	1	MTM1 (1), RYR1 (1), TPM3 (3)	0.14286	0.27273	5.946e-8	4.329e-7	189
Centronuclear myopathy	Congenital structural myopathy	8	6	BIN1 (4), MTM1 (1), MTMR14 (3), RYR1 (3), TPM3 (1), DNM2 (4), MYF6 (2), CCDC78 (3)	0.29630	0.66667	2.017e-21	4.063e-20	189