

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 "Distal muscular dystrophy" (10 matching pairs). · Rows: 10 · Generated: 2026-10-10 11:42:33

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Childhood-onset spinal muscular atrophy	Distal muscular dystrophy	1	1	BICD2 (2)	0.11111	0.50000	9.090e-4	1.576e-3	
cardiomyopathy, dilated, 2I	Distal muscular dystrophy	1	1	LDB3 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
dilated cardiomyopathy 1C	Distal muscular dystrophy	1	1	LDB3 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Distal axonal motor neuropathy-myofibrillar myopathy syndrome	Distal muscular dystrophy	1	1	HSPB8 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Distal muscular dystrophy	Hereditary axonal motor and sensory neuropathy	1	0	BICD2 (1)	0.12500	1.00000	4.546e-4	9.726e-4	
Distal muscular dystrophy	distal myopathy with vocal cord weakness	1	1	MATR3 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Distal muscular dystrophy	neuronopathy, distal hereditary motor, autosomal dominant	1	1	HSPB8 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Distal muscular dystrophy	Neuromuscular disease	3	0	LDB3 (1), MYH7 (1), TTN (1)	0.06667	0.42857	5.643e-7	3.451e-6	
Distal muscular dystrophy	Multiminicore myopathy	2	2	MYH7 (2), TTN (2)	0.22222	0.66667	5.313e-7	3.272e-6	
Distal muscular dystrophy	Distal myopathy	3	3	MATR3 (2), MYH7 (2), TTN (2)	0.15789	0.42857	2.090e-8	1.632e-7	