

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Spastic ataxia with leukoencephalopathy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 08:54:40

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Dilated cardiomyopathy	Spastic ataxia with leukoencephalopathy	1	1	MARS2 (2)	0.00365	1.00000	1.773e-2	1.940e-2	
Mitochondrial disease	Spastic ataxia with leukoencephalopathy	1	1	MARS2 (4)	0.00412	1.00000	1.572e-2	1.733e-2	
Spastic ataxia	Spastic ataxia with leukoencephalopathy	1	1	MARS2 (4)	0.01408	1.00000	4.546e-3	5.668e-3	
Combined oxidative phosphorylation deficiency	Spastic ataxia with leukoencephalopathy	1	1	MARS2 (6)	0.01449	1.00000	4.416e-3	5.528e-3	
Ataxia, spastic, autosomal recessive	Spastic ataxia with leukoencephalopathy	1	1	MARS2 (3)	0.33333	1.00000	1.299e-4	3.931e-4	