

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Spinocerebellar ataxia, autosomal recessive 12" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:13:03

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Spinocerebellar ataxia, autosomal recessive 12	Urologic neoplasms	1	1	WWOX (2)	0.12500	1.00000	4.520e-4	8.260e-4	
46,xy partial gonadal dysgenesis	Spinocerebellar ataxia, autosomal recessive 12	1	1	WWOX (2)	0.10000	1.00000	5.811e-4	1.000e-3	
Epileptic encephalopathy, early infantile	Spinocerebellar ataxia, autosomal recessive 12	1	0	WWOX (1)	0.07692	1.00000	7.748e-4	1.247e-3	
Brain atrophy	Spinocerebellar ataxia, autosomal recessive 12	1	1	WWOX (2)	0.07143	1.00000	8.394e-4	1.336e-3	
Rheumatic disease	Spinocerebellar ataxia, autosomal recessive 12	1	1	WWOX (2)	0.07143	1.00000	8.394e-4	1.336e-3	