

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: 2026-10-08 03:00:13. Filters applied: disease name contains "Cerebellar dysfunction with variable cognitive and behavioral abnormalities" (5 matching pairs). · Rows: 5 · Generated: 2026-10-08 05:35:28

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Ataxia with intention tremor and hypotonia	Cerebellar dysfunction with variable cognitive and behavioral abnormalities	1	1	POU4F1 (3)	0.14286	1.00000	3.897e-4	8.637e-4	
Cerebellar ataxia with hearing loss	Cerebellar dysfunction with variable cognitive and behavioral abnormalities	1	0	SLC9A1 (1)	0.14286	1.00000	3.897e-4	8.637e-4	
Cerebellar dysfunction with variable cognitive and behavioral abnormalities	lichtenstein-knorr syndrome	1	1	SLC9A1 (2)	0.14286	1.00000	3.897e-4	8.637e-4	
Cerebellar dysfunction with variable cognitive and behavioral abnormalities	Cervical dysplasia	1	0	POU4F1 (1)	0.12500	0.50000	7.792e-4	1.404e-3	
Cerebellar dysfunction with variable cognitive and behavioral abnormalities	Uterine disease	1	1	POU4F1 (2)	0.12500	0.50000	7.792e-4	1.404e-3	