

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 "Neurodevelopmental disorder with epilepsy and brain atrophy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 05:13:41

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Esophageal atresia	Neurodevelopmental disorder with epilepsy and brain atrophy	1	1	ATP6V0A1 (2)	0.03030	1.00000	2.066e-3	2.785e-3	
Developmental disorder	Neurodevelopmental disorder with epilepsy and brain atrophy	1	0	ATP6V0A1 (1)	0.01111	1.00000	5.746e-3	6.781e-3	
Cerebellar ataxia	Neurodevelopmental disorder with epilepsy and brain atrophy	1	1	ATP6V0A1 (2)	0.00820	1.00000	7.813e-3	8.931e-3	
Neurodevelopmental disorder with epilepsy and brain atrophy	Seizures	1	1	ATP6V0A1 (2)	0.00433	1.00000	1.485e-2	1.628e-2	
Developmental and epileptic encephalopathy	Neurodevelopmental disorder with epilepsy and brain atrophy	1	1	ATP6V0A1 (5)	0.00431	1.00000	1.491e-2	1.630e-2	