

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 spasticity, epilepsy and cerebellar hypoplasia" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 08:31:18

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Microcephaly	Neurodevelopmental disorder with spasticity, epilepsy and cerebellar hypoplasia	1	0	INPP4A (1)	0.00625	1.00000	1.027e-2	1.144e-2	
Neurodevelopmental disorder with spasticity, epilepsy and cerebellar hypoplasia	Nystagmus	1	1	INPP4A (2)	0.02128	1.00000	2.970e-3	3.788e-3	
Dyskeratosis congenita	Neurodevelopmental disorder with spasticity, epilepsy and cerebellar hypoplasia	1	1	INPP4A (2)	0.03448	1.00000	1.808e-3	2.494e-3	
Autosomal recessive mental retardation	Neurodevelopmental disorder with spasticity, epilepsy and cerebellar hypoplasia	1	0	INPP4A (1)	0.04762	1.00000	1.291e-3	1.888e-3	
Cerebellar hypoplasia	Neurodevelopmental disorder with spasticity, epilepsy and cerebellar hypoplasia	1	0	INPP4A (1)	0.14286	1.00000	3.874e-4	7.329e-4	