

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 progressive spasticity and brain abnormalities" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 04:43:32

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Neurodevelopmental disorder with progressive spasticity and brain abnormalities	Uterine polyp	1	1	EEFSEC (2)	0.04000	1.00000	1.550e-3	2.192e-3	
Chronic obstructive pulmonary disease	Neurodevelopmental disorder with progressive spasticity and brain abnormalities	1	1	EEFSEC (2)	0.02381	1.00000	2.647e-3	3.413e-3	
Hypospadias	Neurodevelopmental disorder with progressive spasticity and brain abnormalities	1	1	EEFSEC (2)	0.02326	1.00000	2.712e-3	3.483e-3	
Neurodevelopmental disorder with progressive spasticity and brain abnormalities	Obstructive airway disease	1	1	EEFSEC (2)	0.01000	1.00000	6.392e-3	7.497e-3	
Endometrial neoplasms	Neurodevelopmental disorder with progressive spasticity and brain abnormalities	1	1	EEFSEC (2)	0.00752	1.00000	8.523e-3	9.682e-3	