GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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 microcephaly, cortical malformations, and spasticity" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 07:36:02

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Autism	Neurodevelopmental disorder with microcephaly, cortical malformations, and spasticity	1	1	TMX2 (2)	0.00068	1.00000	9.504e-2	9.587e-2	
Neurodevelopmental disorder	Neurodevelopmental disorder with microcephaly, cortical malformations, and spasticity	1	1	TMX2 (5)	0.00099	1.00000	6.495e-2	6.624e-2	
Anxiety disorder	Neurodevelopmental disorder with microcephaly, cortical malformations, and spasticity	1	1	TMX2 (2)	0.00680	1.00000	9.427e-3	1.059e-2	
Congenital neurologic anomalies	Neurodevelopmental disorder with microcephaly, cortical malformations, and spasticity	1	1	TMX2 (2)	0.00862	1.00000	7.425e-3	8.572e-3	
Neurodevelopmental disorder with microcephaly, cortical malformations, and spasticity	Primary microcephaly, cortical malformation, and epileptic encephalopathy	1	0	TMX2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	