

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 "Microcephaly, intellectual disability, and seizures" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:38:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Microcephaly, intellectual disability, and seizures	Neurodevelopmental disorder with hypotonia, microcephaly, and seizures	1	0	ADARB1 (1)	0.25000	0.50000	2.583e-4	5.384e-4	
Large artery stroke	Microcephaly, intellectual disability, and seizures	1	1	ALKBH8 (2)	0.01250	0.50000	1.005e-2	1.124e-2	
Microcephaly, intellectual disability, and seizures	Psychotic disorders	1	1	ADARB1 (2)	0.00787	0.50000	1.608e-2	1.748e-2	
Microcephaly, intellectual disability, and seizures	Nonsyndromic intellectual disability	1	1	ALKBH8 (3)	0.00694	0.50000	1.825e-2	1.968e-2	
Microcephaly, intellectual disability, and seizures	Polycystic ovary syndrome	1	1	ADARB1 (3)	0.00437	0.50000	2.910e-2	3.061e-2	