

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: 2026-10-10 03:00:13. Filters applied: disease name contains "megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 08:32:12

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3	Neoplasms	1	1	CCND2 (2)	0.02083	1.00000	3.052e-3	4.025e-3	
megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3	Polydactyl	1	1	CCND2 (3)	0.02500	1.00000	2.533e-3	3.446e-3	
Hydrocephalus	megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3	1	1	CCND2 (3)	0.03704	1.00000	1.689e-3	2.531e-3	
megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3	Polymicrogyria	1	1	CCND2 (2)	0.03846	1.00000	1.624e-3	2.461e-3	
megaloencephaly-polymicrogyria-polydactyl-hydrocephalus syndrome 3	Perisylvian syndrome	1	1	CCND2 (3)	0.09091	1.00000	6.494e-4	1.241e-3	