

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Cerebroretinal microangiopathy with calcifications and cysts" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 03:40:11

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cerebroretinal microangiopathy with calcifications and cysts	Tumor predisposition syndrome	1	1	POT1 (6)	0.10000	0.25000	1.558e-3	2.376e-3	
Anaplastic oligodendroglioma	Cerebroretinal microangiopathy with calcifications and cysts	1	1	POT1 (5)	0.16667	0.50000	5.195e-4	1.061e-3	
Cerebroretinal microangiopathy with calcifications and cysts	Congenital chromosomal disease	1	1	POT1 (4)	0.20000	1.00000	2.598e-4	6.509e-4	
Cerebroretinal microangiopathy with calcifications and cysts	Coats plus syndrome	2	2	STN1 (7), CTC1 (7)	0.40000	1.00000	5.062e-8	3.708e-7	
Cerebroretinal microangiopathy with calcifications and cysts	Dyskeratosis congenita	3	2	POT1 (4), PFAS (1), CTC1 (7)	0.10714	0.75000	1.708e-8	1.342e-7	