

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: 2026-10-08 03:00:13. Filters applied: disease name contains "Brain calcification" (11 matching pairs). · Rows: 11 · Generated: 2026-10-08 05:35:21

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Idiopathic basal ganglia calcification	Primary familial brain calcification	8	8	PDGFRB (6), XPR1 (6), PDGFB (7), JAM2 (6), SLC20A2 (5), CMPK2 (5), MYORG (6), NAA60 (5)	0.66667	1.00000	2.109e-27	5.820e-26	399
Fahr's disease	Primary familial brain calcification	7	7	PDGFRB (4), XPR1 (4), PDGFB (4), JAM2 (4), SLC20A2 (3), MYORG (4), NAA60 (2)	0.77778	1.00000	1.967e-25	4.911e-24	399
Basal ganglia disease	Primary familial brain calcification	4	4	PDGFRB (4), XPR1 (4), PDGFB (4), SLC20A2 (3)	0.22222	0.50000	2.134e-11	2.279e-10	399
Myeloproliferative disease, unclassifiable	Primary familial brain calcification	1	1	PDGFRB (2)	0.11111	1.00000	5.195e-4	1.058e-3	
Acroosteolysis	Primary familial brain calcification	1	1	PDGFRB (3)	0.10000	0.50000	1.039e-3	1.737e-3	
Brain calcification	Interstitial lung disease	1	1	FARSB (2)	0.01493	1.00000	4.286e-3	5.383e-3	
Seizures	seizures, early-onset, with neurodegeneration and brain calcifications	1	1	NRROS (5)	0.00704	1.00000	9.157e-3	1.047e-2	215
Brain calcification	Liver cirrhosis	1	0	FARSB (1)	0.00377	1.00000	1.715e-2	1.880e-2	
Multiple sclerosis	seizures, early-onset, with neurodegeneration and brain calcifications	1	1	NRROS (2)	0.00173	1.00000	3.741e-2	3.926e-2	
Asthma	seizures, early-onset, with neurodegeneration and brain calcifications	1	1	NRROS (2)	0.00094	1.00000	6.936e-2	7.076e-2	
Brain calcification	Schizophrenia	1	1	FARSB (2)	0.00039	1.00000	1.650e-1	1.656e-1	