

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 "Brain aneurysm" (12 matching pairs). · Rows: 12 · Generated: 2026-10-10 04:04:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brain aneurysm	Migraine	16	4	CTNNA3 (1), FBN2 (2), LINGO2 (1), PTPRD (1), PLCE1 (1), CNNM2 (1), NT5C2 (1), TRPM8 (3), CFDP1 (1), EDNRA (4), ATP2B1 (1), ESRRG (1)	0.03361	0.18391	8.106e-10	7.387e-9	
Brain aneurysm	Carotid atherosclerosis	3	0	LINGO2 (1), CFDP1 (1), EDNRA (1)	0.03297	0.50000	3.442e-6	1.839e-5	
Aortic stenosis	Brain aneurysm	5	0	FERD3L (1), POLR1F (1), MYEOV (1), BET1L (1), RNF144A (1)	0.03497	0.08333	2.193e-5	1.034e-4	
Brain aneurysm	Peripheral vascular disease	4	0	CARD11 (1), HDAC9 (1), LINGO2 (1), EDNRA (1)	0.03419	0.12121	3.433e-5	1.583e-4	
Brain aneurysm	Dyslexia	6	0	CCDC171 (1), HDAC9 (1), RBFOX1 (1), RBMS3 (1), FHIT (1), ESRRG (1)	0.03109	0.06897	3.850e-5	1.762e-4	
Brain aneurysm	Cerebellar vermis atrophy	1	1	SYN3 (2)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	Gaucher disease-ophthalmoplegia-cardiovascular calcification syndrome	1	1	GBA1 (4)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	holocarboxylase synthetase deficiency	1	1	HLCS (2)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	primary ciliary dyskinesia 12	1	1	RSPH9 (2)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	Tongue disorder	1	0	ESRRG (1)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	Uterine benign neoplasm	1	0	BET1L (1)	0.01136	1.00000	5.650e-3	6.860e-3	
Brain aneurysm	Trimethylaminuria	1	1	FMO4 (2)	0.01124	0.50000	1.127e-2	1.267e-2	