

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Cerebral amyloid angiopathy" (18 matching pairs). · Rows: 18 · Generated: 2026-10-11 18:22:05

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brain infarction	Cerebral amyloid angiopathy	12	1	APOE (3), CDKAL1 (1), KAZN (1), PTPRD (1), SGK1 (1), HS3ST4 (1), ATP10A (1), POLD3 (1), ABTB2 (1), KCNB2 (1), RAG1 (1), SLC29A4 (1)	0.12500	0.33333	3.985e-20	7.652e-19	
Cerebral amyloid angiopathy	Lewy body disease	13	1	APOC1 (1), APOE (3), CDKAL1 (1), KAZN (1), PTPRD (1), SGK1 (1), HS3ST4 (1), ATP10A (1), POLD3 (1), ABTB2 (1), KCNB2 (1), RAG1 (1)	0.08442	0.18310	3.478e-16	5.374e-15	
Cerebral amyloid angiopathy	Dementia	22	4	APP (6), ITM2B (3), APOE (3), DOCK10 (1), EFHB (1), FSTL5 (1), GRIK2 (1), KAZN (1), KCNH8 (1), NCK2 (1), NECTIN2 (1), PTPRD (1)	0.03438	0.30986	9.962e-15	1.399e-13	
Abeta amyloidosis	cerebral amyloid angiopathy, app-related	1	1	APP (2)	0.50000	1.00000	6.494e-5	2.331e-4	116
Amyloid angiopathy	cerebral amyloid angiopathy, app-related	1	1	APP (3)	0.50000	1.00000	6.494e-5	2.331e-4	116
cerebral amyloid angiopathy, app-related	Partial epilepsy with variable foci	1	1	APP (2)	0.50000	1.00000	6.494e-5	2.331e-4	116
cerebral amyloid angiopathy, app-related	Eye manifestations	1	1	APP (2)	0.50000	1.00000	6.494e-5	2.331e-4	116
Cerebral amyloid angiopathy	Conduct disorder	4	0	PTPRD (1), SLC7A2 (1), ADH1B (1), ADH1C (1)	0.03333	0.07692	9.506e-5	3.379e-4	
Amyloid neuropathy	cerebral amyloid angiopathy, app-related	1	1	APP (3)	0.25000	1.00000	1.948e-4	5.354e-4	116
Cerebral amyloid angiopathy	Vascular dementia	5	3	APP (6), ITM2B (3), APOE (3), GRIK2 (1), PRNP (1)	0.02564	0.07042	3.081e-4	7.708e-4	
Cerebral amyloid angiopathy	Uridine-cytidineuria	1	1	SLC28A1 (3)	0.01389	1.00000	4.611e-3	5.734e-3	
Cerebral amyloid angiopathy	leukodystrophy, adult-onset, autosomal dominant, without amyloid angiopathy	1	1	CST3 (3)	0.01389	1.00000	4.611e-3	5.734e-3	
Cerebral amyloid angiopathy	immunodeficiency 53	1	1	RELB (2)	0.01389	1.00000	4.611e-3	5.734e-3	
Cerebral amyloid angiopathy	immunodeficiency 122	1	1	POLD3 (2)	0.01389	1.00000	4.611e-3	5.734e-3	
Cerebral amyloid angiopathy	Familial danish dementia	1	1	ITM2B (3)	0.01389	1.00000	4.611e-3	5.734e-3	
Acys amyloidosis	Cerebral amyloid angiopathy	1	1	CST3 (4)	0.01389	1.00000	4.611e-3	5.734e-3	
Abri amyloidosis	Cerebral amyloid angiopathy	1	1	ITM2B (3)	0.01389	1.00000	4.611e-3	5.734e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cerebral amyloid angiopathy	Early-onset progressive encephalopathy-hearing loss-pons hypoplasia-brain atrophy syndrome	1	1	TRAPPC12 (4)	0.01370	0.50000	9.201e-3	1.051e-2	