

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 "Cardiac embolism" (9 matching pairs). · Rows: 9 · Generated: 2026-10-11 20:35:36

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cardiac embolism	Cardioembolic stroke	50	0	PRRX1 (1), C16orf95 (1), DOCK10 (1), EPHA4 (1), GLIS3 (1), GORAB (1), HNF4G (1), HTR1E (1), KCNN3 (1), RBFOX1 (1), RBMS3 (1), RGS4 (1)	0.49020	1.00000	2.786e-116	3.972e-114	
Cardiac arrhythmia	Cardiac embolism	8	1	PRRX1 (1), GORAB (1), KCNN3 (1), CAV2 (1), PITX2 (1), ZFHX3 (1), NAV3 (2), NEURL1 (1)	0.05674	0.16000	8.676e-10	7.896e-9	
Cardiac embolism	Glaucoma	9	3	GLIS3 (2), KCNN3 (1), RBFOX1 (1), CAV2 (3), ABO (1), TEK (5), GRM5 (1), HNRNPA1L3 (1), TYR (1)	0.03261	0.18000	5.402e-8	3.943e-7	
Atrial flutter	Cardiac embolism	6	0	PRRX1 (1), GORAB (1), KCNN3 (1), PITX2 (1), ZFHX3 (1), NEURL1 (1)	0.04762	0.12000	2.320e-7	1.532e-6	
Cardiac embolism	Periprosthetic osteolysis	2	0	GLIS3 (1), RGS5 (1)	0.03279	0.16667	6.680e-4	1.277e-3	
Agnathia-otocephaly	Cardiac embolism	1	0	PRRX1 (1)	0.01961	1.00000	3.247e-3	4.245e-3	
Cardiac embolism	Dysgnathia complex	1	1	PRRX1 (2)	0.01961	1.00000	3.247e-3	4.245e-3	
Cardiac embolism	hereditary spherocytosis	1	1	ANK1 (2)	0.01961	1.00000	3.247e-3	4.245e-3	
Cardiac embolism	Retrognathia	1	1	PRRX1 (2)	0.01961	1.00000	3.247e-3	4.245e-3	