

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 "Circadian rhythm sleep disorder" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 15:10:45

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Circadian rhythm sleep disorder	Large artery stroke	1	0	CNTN5 (1)	0.01235	0.33333	1.512e-2	1.674e-2	
Circadian rhythm sleep disorder	Hyperuricemia	1	0	CNTN5 (1)	0.01493	0.33333	1.242e-2	1.389e-2	
Circadian rhythm sleep disorder	Diabetic ketoacidosis	1	0	CNTN5 (1)	0.02632	0.33333	6.804e-3	8.082e-3	
Circadian rhythm sleep disorder	Splenic disease	1	0	CNTN5 (1)	0.08333	0.33333	1.753e-3	2.609e-3	
Circadian rhythm sleep disorder	Pernicious anemia	1	0	CNTN5 (1)	0.09091	0.33333	1.558e-3	2.376e-3	