

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 "Seasonal affective disorder" (10 matching pairs). · Rows: 10 · Generated: 2026-10-11 09:57:23

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hyperkinesia	Seasonal affective disorder	3	3	NPY (2), HTR2A (2), HTR2C (2)	0.06383	0.18750	4.928e-6	2.563e-5	
Schizoaffective disorder	Seasonal affective disorder	2	0	NPAS2 (1), NPY (1)	0.04082	0.12500	5.570e-4	1.136e-3	
Atypical absence epilepsy	Seasonal affective disorder	1	0	NPY (1)	0.05882	1.00000	1.039e-3	1.739e-3	
Behavior disorders	Seasonal affective disorder	1	0	SLC6A4 (1)	0.05882	1.00000	1.039e-3	1.739e-3	
Delayed sleep phase syndrome	Seasonal affective disorder	1	1	CRY1 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Intellectual developmental disorder seizures cerebellar	Seasonal affective disorder	1	1	RORA (3)	0.05882	1.00000	1.039e-3	1.739e-3	
Minor epilepsy	Seasonal affective disorder	1	0	NPY (1)	0.05882	1.00000	1.039e-3	1.739e-3	
Nasal obstruction	Seasonal affective disorder	1	1	NPY (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Seasonal affective disorder	Separation anxiety disorder	1	0	DRD4 (1)	0.05882	1.00000	1.039e-3	1.739e-3	
Advanced sleep phase syndrome	Seasonal affective disorder	1	1	PER3 (2)	0.05263	0.33333	3.114e-3	4.096e-3	