

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 06:33:35

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia	Obesity	1	1	IREB2 (2)	0.00083	1.00000	7.754e-2	7.857e-2	
Insomnia	Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia	1	1	IREB2 (2)	0.00093	1.00000	6.967e-2	7.091e-2	
Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia	Neurodevelopmental disorder	1	1	IREB2 (5)	0.00099	1.00000	6.495e-2	6.624e-2	
Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia	Obstructive pulmonary disease	1	1	IREB2 (2)	0.00179	1.00000	3.609e-2	3.775e-2	
Interstitial lung disease	Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia	1	1	IREB2 (2)	0.01449	1.00000	4.390e-3	5.339e-3	