

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 "complex neurodevelopmental disorder with or without congenital anomalies" (10 matching pairs). · Rows: 10 · Generated: 2026-10-10 02:34:43

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Coloboma	complex neurodevelopmental disorder with or without congenital anomalies	1	1	MYH10 (2)	0.05263	0.25000	3.891e-3	4.941e-3	
1p36 deletion syndrome	complex neurodevelopmental disorder with or without congenital anomalies	1	1	RERE (3)	0.05882	0.25000	3.373e-3	4.374e-3	
Hypogonadotropic hypogonadism	SOX11-related complex neurodevelopmental disorder with or without congenital anomalies	1	1	SOX11 (2)	0.02083	1.00000	3.052e-3	4.025e-3	
Salivary gland neoplasms	SOX11-related complex neurodevelopmental disorder with or without congenital anomalies	1	1	SOX11 (2)	0.02222	1.00000	2.858e-3	3.806e-3	
Charge syndrome	complex neurodevelopmental disorder with or without congenital anomalies	1	1	RERE (2)	0.07692	0.25000	2.336e-3	3.243e-3	
Pituitary stalk interruption syndrome	SOX11-related complex neurodevelopmental disorder with or without congenital anomalies	1	1	SOX11 (2)	0.03125	1.00000	2.013e-3	2.901e-3	
complex neurodevelopmental disorder with or without congenital anomalies	Congenital ptosis	1	1	MYH10 (2)	0.11111	0.25000	1.298e-3	2.063e-3	
Coffin-siris syndrome	SOX11-related complex neurodevelopmental disorder with or without congenital anomalies	1	1	SOX11 (5)	0.05556	1.00000	1.104e-3	1.826e-3	
complex neurodevelopmental disorder with or without congenital anomalies	Developmental delay with or without intellectual or behavioral abnormalities	1	1	TRRAP (5)	0.16667	0.50000	5.195e-4	1.061e-3	
Intellectual developmental disorder microcephaly ocular	SOX11-related complex neurodevelopmental disorder with or without congenital anomalies	1	1	SOX11 (4)	0.50000	1.00000	6.494e-5	2.331e-4	