

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 "Neurodevelopmental delay" (32 matching pairs). · Rows: 32 · Generated: 2026-10-20 06:36:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Alzheimer disease	Neurodevelopmental delay, congenital heart defects, and distinct facial dysmorphism	1	1	TMEM94 (2)	0.00045	1.00000	1.431e-1	1.438e-1	
Macrocephaly, neurodevelopmental delay, and seizures	Neurodevelopmental disorder	1	1	KPTN (3)	0.00099	1.00000	6.495e-2	6.624e-2	3
Intellectual developmental disorder	Macrocephaly, neurodevelopmental delay, and seizures	1	1	KPTN (4)	0.00123	1.00000	5.262e-2	5.418e-2	3
Dementia	Neurodevelopmental delay, congenital heart defects, and distinct facial dysmorphism	1	1	TMEM94 (2)	0.00169	1.00000	3.822e-2	3.978e-2	
Brachydactyly and mild neurodevelopmental delay	Neurotic disorder	1	1	ERI1 (2)	0.00229	1.00000	2.809e-2	2.961e-2	
Brachydactyly and mild neurodevelopmental delay	Intellectual disability	1	0	ERI1 (1)	0.00242	1.00000	2.667e-2	2.816e-2	
Neurodevelopmental delay, congenital heart defects, and distinct facial dysmorphism	Post-traumatic stress disorder	1	1	TMEM94 (2)	0.00490	1.00000	1.311e-2	1.444e-2	
Complex neurodevelopmental disorder	Macrocephaly, neurodevelopmental delay, and seizures	1	1	KPTN (2)	0.00741	1.00000	8.652e-3	9.793e-3	3
Severe neurodevelopmental delay	Spastic paraplegia	1	1	FICD (4)	0.00800	1.00000	8.006e-3	9.125e-3	
Congenital neurologic anomalies	Neurodevelopmental delay, congenital heart defects, and distinct facial dysmorphism	1	1	TMEM94 (2)	0.00862	1.00000	7.425e-3	8.572e-3	
Developmental delay	Macrocephaly, neurodevelopmental delay, and seizures	1	0	KPTN (1)	0.01266	1.00000	5.036e-3	6.027e-3	3
Craniosynostosis	Macrocephaly, neurodevelopmental delay, and seizures	1	0	KPTN (1)	0.01408	1.00000	4.520e-3	5.478e-3	
Macrocephaly, neurodevelopmental delay, lymphoid hyperplasia, and persistent fetal hemoglobin	Pharyngeal disorder	1	1	ZBTB7A (2)	0.03125	1.00000	2.002e-3	2.719e-3	
Brachydactyly and mild neurodevelopmental delay	Spondyloepimetaphyseal dysplasia	1	1	ERI1 (4)	0.03846	1.00000	1.614e-3	2.265e-3	
Erythematousquamous dermatosis	Macrocephaly, neurodevelopmental delay, lymphoid hyperplasia, and persistent fetal hemoglobin	1	1	ZBTB7A (2)	0.04348	1.00000	1.420e-3	2.040e-3	
Macrocephaly, neurodevelopmental delay, lymphoid hyperplasia, and persistent fetal hemoglobin	Upper respiratory tract disorder	1	1	ZBTB7A (2)	0.04762	1.00000	1.291e-3	1.888e-3	
Neonatal diabetes mellitus	Severe neurodevelopmental delay	1	0	FICD (1)	0.05000	1.00000	1.227e-3	1.808e-3	
Abnormal brain morphology	Neurodevelopmental delay	1	0	WDR91 (1)	0.12500	0.50000	7.747e-4	1.247e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital progressive bone marrow failure-b-cell immunodeficiency-skeletal dysplasia syndrome	Neurodevelopmental delay	1	1	MYSM1 (3)	0.14286	1.00000	3.874 e-4	7.329e-4	
Mysm1 deficiency	Neurodevelopmental delay	1	0	MYSM1 (1)	0.14286	1.00000	3.874 e-4	7.329e-4	
Hygroma	Neurodevelopmental delay	1	0	WDR91 (1)	0.14286	1.00000	3.874 e-4	7.329e-4	
Basilicata-akhtar syndrome	Neurodevelopmental delay	1	1	MSL3 (2)	0.14286	1.00000	3.874 e-4	7.329e-4	
Neurodevelopmental delay	Retinal dystrophy, juvenile cataracts, and short stature syndrome	1	0	RDH11 (1)	0.14286	1.00000	3.874 e-4	7.329e-4	
Gingival overgrowth	Neurodevelopmental delay	1	0	KCNK4 (1)	0.14286	1.00000	3.874 e-4	7.329e-4	
Facial dysmorphism, hypertrichosis, epilepsy, intellectual/developmental delay, and gingival overgrowth syndrome	Neurodevelopmental delay	1	0	KCNK4 (1)	0.14286	1.00000	3.874 e-4	7.329e-4	
Severe neurodevelopmental delay	Skeletal abnormalities	1	0	FICD (1)	0.20000	1.00000	2.583 e-4	5.384e-4	
Developmental disorder with macrocephaly, obstructive sleep apnea, and persistent fetal hemoglobin	Macrocephaly, neurodevelopmental delay, lymphoid hyperplasia, and persistent fetal hemoglobin	1	0	ZBTB7A (1)	0.50000	1.00000	6.457 e-5	1.985e-4	
Intellectual developmental disorder dysmorphic macrocephaly	Macrocephaly, neurodevelopmental delay, lymphoid hyperplasia, and persistent fetal hemoglobin	1	1	ZBTB7A (2)	0.50000	1.00000	6.457 e-5	1.985e-4	
Intellectual developmental disorder dysmorphic cardiac	Neurodevelopmental delay, congenital heart defects, and distinct facial dysmorphism	1	1	TMEM94 (5)	0.50000	1.00000	6.457 e-5	1.985e-4	
Brachydactyly and mild neurodevelopmental delay	Severe growth restriction and skeletal dysplasia	1	0	ERI1 (1)	0.50000	1.00000	6.457 e-5	1.985e-4	
Brachydactyly and mild neurodevelopmental delay	Hoxha-aliu syndrome	1	1	ERI1 (4)	0.50000	1.00000	6.457 e-5	1.985e-4	
Severe neurodevelopmental delay	Spastic paraplegia 92, autosomal recessive	1	0	FICD (1)	0.50000	1.00000	6.457 e-5	1.985e-4	