

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: 2026-10-21 12:58:11. Filters applied: disease name contains "Intellectual developmental disorder, autosomal dominant 5" (50 matching pairs). · Rows: 50 · Generated: 2026-10-21 18:58:18

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Intellectual developmental disorder, autosomal dominant 51	Mental retardation, autosomal dominant 51	1	0	KMT5B (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 54	Mental retardation, autosomal dominant 54	1	0	CAMK2B (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 55, with seizures	Mental retardation, autosomal dominant 55, with seizures	1	0	NUS1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 53	Mental retardation, autosomal dominant 53	1	0	CAMK2A (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 56	Mental retardation, autosomal dominant 56	1	0	CLTC (1)	0.50000	1.00000	6.457e-5	1.985e-4	444
Intellectual developmental disorder, autosomal dominant 52	Mental retardation, autosomal dominant 52	1	0	ASH1L (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 57	Mental retardation, autosomal dominant 57	1	0	TLK2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 58	Mental retardation, autosomal dominant 58	1	0	SET (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 50, with behavioral abnormalities	Mental retardation, autosomal dominant 50	1	0	NAA15 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Fetal growth restriction	Intellectual developmental disorder, autosomal dominant 56	1	0	CLTC (1)	0.50000	1.00000	6.457e-5	1.985e-4	444
Intellectual developmental disorder dysmorphic hypotonia	Intellectual developmental disorder, autosomal dominant 51	1	1	KMT5B (2)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder, autosomal dominant 5	Mental retardation autosomal dominant type 5	1	0	SYNGAP1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Epilepsy and intellectual disability	Intellectual developmental disorder, autosomal dominant 55, with seizures	1	0	NUS1 (1)	0.25000	1.00000	1.937e-4	4.415e-4	
Epilepsy and intellectual disability	Intellectual developmental disorder, autosomal dominant 56	1	0	CLTC (1)	0.25000	1.00000	1.937e-4	4.415e-4	444
Bladder inflammatory myofibroblastic tumor	Intellectual developmental disorder, autosomal dominant 56	1	0	CLTC (1)	0.16667	1.00000	3.228e-4	6.413e-4	
Dysgerminoma of ovary	Intellectual developmental disorder, autosomal dominant 58	1	0	SET (1)	0.14286	1.00000	3.874e-4	7.329e-4	
Intellectual developmental disorder, autosomal dominant 56	Ovarian steroid cell tumor	1	0	CLTC (1)	0.14286	1.00000	3.874e-4	7.329e-4	444
Epilepsy with myoclonic atonic seizures	Intellectual developmental disorder, autosomal dominant 5	1	1	SYNGAP1 (2)	0.12500	1.00000	4.520e-4	8.264e-4	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hereditary ataxia	Intellectual developmental disorder, autosomal dominant 55, with seizures	1	0	NUS1 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Intellectual developmental disorder, autosomal dominant 55, with seizures	Perisylvian syndrome	1	1	NUS1 (2)	0.09091	1.00000	6.457e-4	1.087e-3	
Intellectual developmental disorder, autosomal dominant 58	T-lymphoblastic lymphoma	1	0	SET (1)	0.06250	1.00000	9.685e-4	1.497e-3	
Intellectual developmental disorder, autosomal dominant 54	Substance-induced psychosis	1	1	CAMK2B (2)	0.05556	1.00000	1.098e-3	1.652e-3	
Intellectual developmental disorder, autosomal dominant 52	Syndromic complex neurodevelopmental disorder	1	1	ASH1L (2)	0.05000	1.00000	1.227e-3	1.809e-3	
Blepharoptosis	Intellectual developmental disorder, autosomal dominant 5	1	1	SYNGAP1 (2)	0.05000	1.00000	1.227e-3	1.809e-3	
Hoarding disorder	Intellectual developmental disorder, autosomal dominant 57	1	1	TLK2 (2)	0.04762	1.00000	1.291e-3	1.889e-3	
Bladder exstrophy	Intellectual developmental disorder, autosomal dominant 55, with seizures	1	1	NUS1 (2)	0.04545	1.00000	1.356e-3	1.966e-3	
Hepatolenticular degeneration	Intellectual developmental disorder, autosomal dominant 53	1	1	CAMK2A (3)	0.03571	1.00000	1.743e-3	2.422e-3	
Acute leukemia of ambiguous lineage	Intellectual developmental disorder, autosomal dominant 58	1	0	SET (1)	0.02326	1.00000	2.712e-3	3.483e-3	
Intellectual developmental disorder, autosomal dominant 58	Vulvar intraepithelial neoplasia	1	0	SET (1)	0.02083	1.00000	3.035e-3	3.856e-3	
Intellectual developmental disorder, autosomal dominant 51	Neural tube defect	1	1	KMT5B (2)	0.01887	1.00000	3.357e-3	4.220e-3	
Intellectual developmental disorder, autosomal dominant 50, with behavioral abnormalities	Syndromic intellectual disability	1	1	NAA15 (2)	0.01852	1.00000	3.422e-3	4.286e-3	
Hepatomegaly	Intellectual developmental disorder, autosomal dominant 53	1	1	CAMK2A (2)	0.01695	1.00000	3.745e-3	4.636e-3	
Brain aneurysm	Intellectual developmental disorder, autosomal dominant 54	1	1	CAMK2B (2)	0.01124	1.00000	5.682e-3	6.722e-3	
Hyperalgesia	Intellectual developmental disorder, autosomal dominant 53	1	1	CAMK2A (2)	0.01111	1.00000	5.746e-3	6.781e-3	
Intellectual developmental disorder, autosomal dominant 52	Lewy body disease	1	1	ASH1L (2)	0.01042	1.00000	6.134e-3	7.208e-3	
Intellectual developmental disorder, autosomal dominant 50, with behavioral abnormalities	Tetralogy of fallot	1	1	NAA15 (2)	0.00885	1.00000	7.231e-3	8.372e-3	
Congenital neurologic anomalies	Intellectual developmental disorder, autosomal dominant 54	1	1	CAMK2B (2)	0.00862	1.00000	7.425e-3	8.572e-3	
Cannabis abuse	Intellectual developmental disorder, autosomal dominant 54	1	1	CAMK2B (2)	0.00855	1.00000	7.490e-3	8.645e-3	
Cerebellar ataxia	Intellectual developmental disorder, autosomal dominant 5	1	1	SYNGAP1 (2)	0.00820	1.00000	7.813e-3	8.932e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Complex neurodevelopmental disorder	Intellectual developmental disorder, autosomal dominant 51	1	1	KMT5B (2)	0.00741	1.00000	8.652e-3	9.794e-3	
Complex neurodevelopmental disorder	Intellectual developmental disorder, autosomal dominant 57	1	1	TLK2 (2)	0.00741	1.00000	8.652e-3	9.794e-3	
Complex neurodevelopmental disorder	Intellectual developmental disorder, autosomal dominant 5	1	1	SYNGAP1 (2)	0.00741	1.00000	8.652e-3	9.794e-3	
Complex neurodevelopmental disorder	Intellectual developmental disorder, autosomal dominant 53	1	1	CAMK2A (2)	0.00741	1.00000	8.652e-3	9.794e-3	
Intellectual developmental disorder, autosomal dominant 52	Nonsyndromic intellectual disability	1	1	ASH1L (4)	0.00699	1.00000	9.168e-3	1.032e-2	
Developmental disability	Intellectual developmental disorder, autosomal dominant 57	1	1	TLK2 (2)	0.00694	1.00000	9.233e-3	1.038e-2	
Developmental disability	Intellectual developmental disorder, autosomal dominant 50, with behavioral abnormalities	1	1	NAA15 (2)	0.00694	1.00000	9.233e-3	1.038e-2	
Intellectual developmental disorder, autosomal dominant 52	Liver neoplasms	1	1	ASH1L (2)	0.00667	1.00000	9.620e-3	1.078e-2	
Congenital heart disease	Intellectual developmental disorder, autosomal dominant 50, with behavioral abnormalities	1	0	NAA15 (1)	0.00559	1.00000	1.149e-2	1.272e-2	
Intellectual developmental disorder, autosomal dominant 51	Non-specific syndromic intellectual disability	1	1	KMT5B (2)	0.00271	1.00000	2.376e-2	2.528e-2	
Intellectual developmental disorder	Intellectual developmental disorder, autosomal dominant 57	1	1	TLK2 (5)	0.00123	1.00000	5.262e-2	5.418e-2	