

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 "Language impairment" (34 matching pairs). · Rows: 34 · Generated: 2026-10-20 05:13:02

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Depression	Neurodevelopmental disorder with language impairment and behavioral abnormalities	1	1	GRIA2 (3)	0.00357	1.00000	1.801e-2	1.943e-2	
Cerebellar ataxia	Neurodevelopmental disorder with language impairment, autism, and attention deficit-hyperactivity disorder	1	1	CAPRIN1 (3)	0.00820	1.00000	7.813e-3	8.931e-3	
Developmental disorder	Neurodevelopmental disorder with language impairment and behavioral abnormalities	1	1	GRIA2 (2)	0.01111	1.00000	5.746e-3	6.781e-3	
Neurodevelopmental disorder with language impairment and behavioral abnormalities	Status epilepticus	1	1	GRIA2 (4)	0.01389	1.00000	4.584e-3	5.544e-3	
Dermatologic disorder	Intellectual developmental disorder with language impairment and early-onset dopa-responsive dystonia-parkinsonism	1	1	NR4A2 (2)	0.01449	1.00000	4.390e-3	5.339e-3	
Neurodevelopmental disorder with language impairment and behavioral abnormalities	Rhinitis	1	1	GRIA2 (4)	0.01515	1.00000	4.197e-3	5.132e-3	
Moyamoya angiopathy	Neurodevelopmental disorder with language impairment, autism, and attention deficit-hyperactivity disorder	1	1	CAPRIN1 (3)	0.02703	1.00000	2.324e-3	3.054e-3	
Hyperkinesia	Neurodevelopmental disorder with language impairment and behavioral abnormalities	1	1	GRIA2 (4)	0.02941	1.00000	2.131e-3	2.847e-3	22
Hereditary parkinson disease	Intellectual developmental disorder with language impairment and early-onset dopa-responsive dystonia-parkinsonism	1	1	NR4A2 (5)	0.03448	1.00000	1.808e-3	2.494e-3	
Myoclonic epilepsy	Neurodevelopmental disorder with language impairment, autism, and attention deficit-hyperactivity disorder	1	1	CAPRIN1 (3)	0.04000	1.00000	1.550e-3	2.192e-3	
Neurodevelopmental disorder with language impairment, autism, and attention deficit-hyperactivity disorder	Post-operative acute kidney injury	1	1	CAPRIN1 (3)	0.08333	1.00000	7.102e-4	1.174e-3	
Developmental delay with language impairment and movement disorder	Intellectual developmental disorder speech autism dysmorphic	1	1	TBR1 (2)	0.16667	0.50000	5.165e-4	9.125e-4	314
Feeding difficulties	Language impairment	1	0	PPP2CA (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Cortical occipital malformations	Developmental delay with language impairment and movement disorder	1	1	TBR1 (2)	0.25000	0.50000	2.583e-4	5.384e-4	314
Developmental delay with language impairment and movement disorder	Intellectual developmental disorder autism speech	1	1	TBR1 (5)	0.25000	0.50000	2.583e-4	5.384e-4	314
Houge janssens syndrome	Language impairment	1	1	PPP2CA (5)	0.20000	1.00000	2.583e-4	5.384e-4	
Language impairment	Muscular hypotonia	1	0	PPP2CA (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Dopa-responsive dystonia	Intellectual developmental disorder with language impairment and early-onset dopa-responsive dystonia-parkinsonism	1	1	NR4A2 (3)	0.20000	1.00000	2.583e-4	5.384e-4	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Abnormal cortical gyration	Developmental delay with language impairment and movement disorder	1	1	TBR1 (2)	0.33333	1.00000	1.291e-4	3.269e-4	314
Intellectual developmental disorder seizures hypotonia skeletal	Mental retardation with language impairment and autistic features	1	1	FOXP1 (4)	0.33333	1.00000	1.291e-4	3.269e-4	491
Intellectual developmental disorder seizures hypotonia skeletal	Intellectual developmental disorder with language impairment and with or without autistic features	1	1	FOXP1 (4)	0.33333	1.00000	1.291e-4	3.269e-4	491
Developmental delay with language impairment and movement disorder	Intellectual developmental disorder with language impairment and early-onset dopa-responsive dystonia-parkinsonism	1	1	NR4A2 (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Developmental delay with language impairment and movement disorder	Intellectual developmental disorder language neurodegenerative	1	1	NR4A2 (5)	0.33333	1.00000	1.291e-4	3.269e-4	
Congenital mitral valve atresia	Intellectual developmental disorder with language impairment and with or without autistic features	1	1	FOXP1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	491
Congenital mitral valve atresia	Mental retardation with language impairment and autistic features	1	1	FOXP1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	491
Congenital aortic valve atresia	Mental retardation with language impairment and autistic features	1	1	FOXP1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	491
Congenital aortic valve atresia	Intellectual developmental disorder with language impairment and with or without autistic features	1	1	FOXP1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	491
Neurodegeneration, childhood-onset, with cerebellar ataxia and cognitive decline	Neurodevelopmental disorder with language impairment, autism, and attention deficit-hyperactivity disorder	1	1	CAPRIN1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	
Language impairment	Neurodevelopmental disorder and language delay with or without structural brain abnormalities	1	0	PPP2CA (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Language impairment	Syndromic intellectual disability resembling other pp2a related neurodevelopmental disorders	1	0	PPP2CA (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder with language impairment and with or without autistic features	Mental retardation with language impairment and autistic features	1	0	FOXP1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	491
Intellectual developmental disorder language neurodegenerative	Intellectual developmental disorder with language impairment and early-onset dopa-responsive dystonia-parkinsonism	1	1	NR4A2 (5)	0.50000	1.00000	6.457e-5	1.985e-4	
Intellectual developmental disorder language autism	Mental retardation with language impairment and autistic features	1	1	FOXP1 (4)	0.50000	1.00000	6.457e-5	1.985e-4	491
Intellectual developmental disorder language autism	Intellectual developmental disorder with language impairment and with or without autistic features	1	1	FOXP1 (4)	0.50000	1.00000	6.457e-5	1.985e-4	491