

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 "Feeding difficulties" (28 matching pairs). · Rows: 28 · Generated: 2026-10-20 05:13:06

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Neurodevelopmental disorder with epilepsy, cataracts, feeding difficulties, and delayed brain myelination	Obesity	1	1	NACC1 (3)	0.00083	1.00000	7.754e-2	7.857e-2	
Neurodevelopmental disorder	Neurodevelopmental disorder with short stature, prominent forehead, and feeding difficulties	1	1	DPH5 (6)	0.00099	1.00000	6.495e-2	6.624e-2	
Neurodevelopmental disorder	Neurodevelopmental disorder with feeding difficulties, thin corpus callosum, and foot deformity	1	1	TAF2 (4)	0.00099	1.00000	6.495e-2	6.624e-2	
Neurodevelopmental disorder	Neurodevelopmental disorder with epilepsy, cataracts, feeding difficulties, and delayed brain myelination	1	1	NACC1 (7)	0.00099	1.00000	6.495e-2	6.624e-2	
Intellectual developmental disorder	Neurodevelopmental disorder with feeding difficulties, thin corpus callosum, and foot deformity	1	1	TAF2 (3)	0.00123	1.00000	5.262e-2	5.418e-2	
Crohn disease	Neurodevelopmental disorder with short stature, prominent forehead, and feeding difficulties	1	1	DPH5 (3)	0.00142	1.00000	4.533e-2	4.689e-2	205
Neurodevelopmental disorder with short stature, prominent forehead, and feeding difficulties	Ulcerative colitis	1	1	DPH5 (3)	0.00143	1.00000	4.507e-2	4.665e-2	205
Inflammatory bowel disease	Neurodevelopmental disorder with short stature, prominent forehead, and feeding difficulties	1	1	DPH5 (3)	0.00144	1.00000	4.481e-2	4.640e-2	205
Epilepsy	Neurodevelopmental disorder with neonatal respiratory insufficiency, hypotonia, and feeding difficulties	1	1	PURA (3)	0.00365	1.00000	1.763e-2	1.903e-2	
Myelodysplastic syndrome	Neurodevelopmental disorder with feeding difficulties, thin corpus callosum, and foot deformity	1	1	TAF2 (2)	0.00388	1.00000	1.659e-2	1.798e-2	
Developmental and epileptic encephalopathy	Neurodevelopmental disorder with neonatal respiratory insufficiency, hypotonia, and feeding difficulties	1	1	PURA (2)	0.00431	1.00000	1.491e-2	1.630e-2	
Microcephaly	Neurodevelopmental disorder with feeding difficulties, thin corpus callosum, and foot deformity	1	1	TAF2 (4)	0.00625	1.00000	1.027e-2	1.144e-2	54
Complex neurodevelopmental disorder	Neurodevelopmental disorder with neonatal respiratory insufficiency, hypotonia, and feeding difficulties	1	1	PURA (2)	0.00741	1.00000	8.652e-3	9.793e-3	
Congenital neurologic anomalies	Neurodevelopmental disorder with neonatal respiratory insufficiency, hypotonia, and feeding difficulties	1	1	PURA (2)	0.00862	1.00000	7.425e-3	8.572e-3	
Feeding difficulties	Syndromic intellectual disability resembling other pp2a related neurodevelopmental disorders	1	0	PPP2CA (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Feeding difficulties	Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities	1	1	POLR2A (2)	0.11111	1.00000	5.165e-4	9.125e-4	
Feeding difficulties	Neurodevelopmental disorder and language delay with or without structural brain abnormalities	1	0	PPP2CA (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Feeding difficulties	Language impairment	1	0	PPP2CA (1)	0.11111	1.00000	5.165e-4	9.125e-4	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Feeding difficulties	Growth abnormality	1	0	ZMIZ1 (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Feeding difficulties	Li-ghorgani-weisz-hubshman syndrome	1	0	KAT8 (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Combined lung carcinoma	Feeding difficulties	1	0	POLR2A (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Basilicata-akhtar syndrome	Feeding difficulties	1	1	MSL3 (2)	0.11111	1.00000	5.165e-4	9.125e-4	
Abnormality of the foot	Feeding difficulties	1	0	SMARCD1 (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Mental retardation, autosomal dominant 31	Neurodevelopmental disorder with neonatal respiratory insufficiency, hypotonia, and feeding difficulties	1	0	PURA (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Infantile epilepsy, cataracts, and profound developmental delay	Neurodevelopmental disorder with epilepsy, cataracts, feeding difficulties, and delayed brain myelination	1	1	NACC1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	
Feeding difficulties	Generalized hypotonia	2	0	POLR2A (1), SMARCD1 (1)	0.13333	0.25000	6.527e-6	3.588e-5	
Feeding difficulties	Muscular hypotonia	2	0	PPP2CA (1), MSL3 (1)	0.18182	0.50000	1.400e-6	8.367e-6	
Abnormality of the cardiovascular system	Feeding difficulties	3	0	KAT8 (1), ZMIZ1 (1), CTR9 (1)	0.27273	0.60000	9.041e-10	7.843e-9	