

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 "Autistic behavior" (15 matching pairs). · Rows: 15 · Generated: 2026-10-20 04:42:58

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Autistic behavior	Delayed speech and language development	3	0	MED13 (1), CTR9 (1), POU3F3 (1)	0.23077	0.50000	2.711e-9	2.265e-8	
Autistic behavior	Generalized hypotonia	3	0	AP2M1 (1), POU3F3 (1), VAMP2 (1)	0.20000	0.37500	7.587e-9	6.134e-8	
Autistic behavior	Motor delay	2	0	MED13 (1), CTR9 (1)	0.18182	0.66667	9.002e-7	5.497e-6	
Autistic behavior	Behavioral abnormality	2	0	PDZD8 (1), CTR9 (1)	0.09091	0.22222	2.722e-5	1.409e-4	
Autistic behavior	Intellectual developmental disorder, autosomal dominant 61	1	0	MED13 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Hypertelorism	1	0	PDZD8 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Craniofacial anomalies, corpus callosum dysgenesis, ptosis, and developmental delay	1	0	ZNF462 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Disproportionate tall stature	1	0	PDZD8 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Intellectual developmental disorder dysmorphic	1	1	POU3F3 (2)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Intellectual developmental disorder seizures epilepsy	1	1	AP2M1 (3)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Intellectual developmental disorder, autosomal dominant 60, with seizures	1	0	AP2M1 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Neurodevelopmental disorder with hypotonia and autistic features with or without hyperkinetic movements	1	0	VAMP2 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Prominent metopic ridge	1	0	ZNF462 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Snijders blok-fisher syndrome	1	0	POU3F3 (1)	0.10000	1.00000	5.811e-4	1.000e-3	
Autistic behavior	Weiss-kruszkka syndrome	1	1	ZNF462 (6)	0.10000	1.00000	5.811e-4	1.000e-3	