

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Developmental delay with or without intellectual or behavioral abnormalities" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 18:43:43

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 with or without congenital anomalies	Developmental delay with or without intellectual or behavioral abnormalities	1	1	TRRAP (5)	0.16667	0.50000	5.195e-4	1.060e-3	
Developmental delay with or without intellectual or behavioral abnormalities	syndromic intellectual disability	1	1	TAOK1 (4)	0.02632	0.50000	4.671e-3	5.785e-3	
Developmental delay with or without intellectual or behavioral abnormalities	Nonsyndromic hearing loss	1	1	TRRAP (4)	0.00833	0.50000	1.527e-2	1.686e-2	
Developmental delay with or without intellectual or behavioral abnormalities	Isolated sensorineural deafness	1	1	TRRAP (4)	0.00826	0.50000	1.540e-2	1.700e-2	
Developmental delay with or without intellectual or behavioral abnormalities	Nonsyndromic intellectual disability	1	1	TAOK1 (4)	0.00699	0.50000	1.823e-2	1.991e-2	