

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Developmental delay with impaired growth and dysmorphic facies" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 21:55:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Developmental delay with impaired growth and dysmorphic facies	Mitral valve prolapse	1	1	SPTBN1 (5)	0.01961	0.25000	1.215e-2	1.361e-2	
Developmental delay with impaired growth and dysmorphic facies	Distal hereditary motor neuropathy	1	1	MORC2 (4)	0.02500	0.25000	9.320e-3	1.062e-2	
Developmental delay with impaired growth and dysmorphic facies	Distal spinal muscular atrophy	1	1	MORC2 (4)	0.02857	0.25000	8.029e-3	9.332e-3	
Central serous retinopathy	Developmental delay with impaired growth and dysmorphic facies	1	1	ARFGEF1 (5)	0.06667	0.25000	2.855e-3	3.806e-3	
Charcot-Marie-Tooth disease axonal type 2Z	Developmental delay with impaired growth and dysmorphic facies	1	1	MORC2 (5)	0.20000	1.00000	2.598e-4	6.509e-4	