

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 "Delayed puberty" (10 matching pairs). · Rows: 10 · Generated: 2026-10-20 04:43:15

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Delayed puberty, self-limited	Diabetes mellitus type 2	1	1	LGR4 (2)	0.00032	1.00000	1.989e-1	1.990e-1	
Delayed puberty, self-limited	Metabolic syndrome	1	1	LGR4 (2)	0.00077	1.00000	8.419e-2	8.509e-2	
Androgenetic alopecia	Delayed puberty, self-limited	1	1	LGR4 (2)	0.00244	1.00000	2.634e-2	2.790e-2	
Delayed puberty, self-limited	Osteoporosis	1	0	LGR4 (1)	0.00617	1.00000	1.040e-2	1.157e-2	
Delayed puberty	Growth disorder	1	1	IGFALS (2)	0.02778	0.50000	4.386e-3	5.339e-3	
Delayed puberty	Short stature	1	0	IGFALS (1)	0.04348	0.50000	2.710e-3	3.483e-3	
Delayed puberty	Martsolf syndrome	1	1	IGSF10 (2)	0.08333	0.50000	1.291e-3	1.888e-3	
Bone mineral density quantitative trait locus	Delayed puberty, self-limited	1	1	LGR4 (3)	0.20000	1.00000	2.583e-4	5.384e-4	62
Acid-labile subunit, deficiency of	Delayed puberty	1	0	IGFALS (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Delayed puberty	Short stature due to primary acid-labile subunit deficiency	1	0	IGFALS (1)	0.33333	1.00000	1.291e-4	3.269e-4	