

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Vertical talus" (12 matching pairs). · Rows: 12 · Generated: 2026-10-10 07:01:15

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bilateral congenital vertical talus	Vertical talus	1	1	HOXD10 (3)	0.50000	1.00000	6.494e-5	2.331e-4	
Bilateral congenital vertical talus	Congenital vertical talus	1	1	HOXD10 (4)	0.33333	1.00000	1.299e-4	3.931e-4	
Congenital external auditory canal atresia	Congenital vertical talus	1	1	TSHZ1 (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Congenital vertical talus	Vertical talus	1	1	HOXD10 (6)	0.33333	1.00000	1.299e-4	3.931e-4	
Congenital aural atresia	Congenital vertical talus	1	1	TSHZ1 (7)	0.25000	0.50000	2.598e-4	6.509e-4	
Bilateral congenital vertical talus	Mouth neoplasms	1	1	HOXD10 (2)	0.01563	1.00000	4.091e-3	5.162e-3	
Mouth neoplasms	Vertical talus	1	1	HOXD10 (2)	0.01563	1.00000	4.091e-3	5.162e-3	
Congenital vertical talus	Mouth neoplasms	1	1	HOXD10 (5)	0.01538	0.50000	8.166e-3	9.476e-3	
Bilateral congenital vertical talus	Charcot-marie-tooth disease	1	1	HOXD10 (2)	0.00752	1.00000	8.573e-3	9.903e-3	
Charcot-marie-tooth disease	Vertical talus	1	1	HOXD10 (3)	0.00752	1.00000	8.573e-3	9.903e-3	
Amyotrophic lateral sclerosis	Bilateral congenital vertical talus	1	1	HOXD10 (2)	0.00300	1.00000	2.156e-2	2.336e-2	
Amyotrophic lateral sclerosis	Vertical talus	1	1	HOXD10 (3)	0.00300	1.00000	2.156e-2	2.336e-2	