

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Treacher collins syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 12:09:37

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Mandibulofacial dysostosis	Treacher collins syndrome	4	4	POLR1C (7), TCOF1 (6), POLR1D (7), POLR1B (6)	0.50000	1.00000	1.495e-14	2.062e-13	
POLR1C-related disorder	Treacher collins syndrome	1	1	POLR1C (5)	0.20000	1.00000	2.598e-4	6.509e-4	
Sialolithiasis	Treacher collins syndrome	1	1	POLR1D (8)	0.03846	0.25000	5.703e-3	6.924e-3	
Hypomyelinating leukodystrophy	Treacher collins syndrome	1	1	POLR1C (8)	0.02941	0.25000	7.771e-3	9.065e-3	
Diffuse large b-cell lymphoma	Treacher collins syndrome	1	1	POLR1D (8)	0.01639	0.25000	1.473e-2	1.635e-2	