

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 "Mandibulofacial dysostosis" (6 matching pairs). · Rows: 6 · Generated: 2026-10-11 13:49:54

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	
ABCA4-related retinopathy	Mandibulofacial dysostosis	1	1	ABCA4 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Atrophic retina	Mandibulofacial dysostosis	1	0	ABCA4 (1)	0.12500	1.00000	4.546e-4	9.726e-4	
Genetic syndromic pierre robin syndrome	Mandibulofacial dysostosis	1	1	EFTUD2 (7)	0.12500	1.00000	4.546e-4	9.726e-4	
Mandibulofacial dysostosis	POLR1C-related disorder	1	1	POLR1C (3)	0.12500	1.00000	4.546e-4	9.726e-4	
Carotid atherosclerosis	Mandibulofacial dysostosis	1	1	EDNRA (6)	0.07692	0.16667	2.725e-3	3.665e-3	