

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 "Dental enamel hypoplasia" (12 matching pairs). · Rows: 12 · Generated: 2026-10-11 02:30:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Dental enamel hypoplasia	Tooth agenesis	5	0	MSX2 (1), ROBO1 (1), CHCHD5 (1), SMAD2 (1), PAPOLG (1)	0.09434	0.31250	4.444e-10	4.167e-9	
Dental enamel hypoplasia	Renal agenesis	2	2	DHX37 (2), ROBO1 (2)	0.06667	0.13333	1.055e-4	3.743e-4	
craniosynostosis 2	Dental enamel hypoplasia	1	1	MSX2 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Testicular regression syndrome	1	1	DHX37 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Central hypothyroidism	Dental enamel hypoplasia	1	1	ROBO1 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Intellectual developmental disorder with retinitis pigmentosa	1	1	SCAPER (5)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	loeys-dietz syndrome 6	1	1	SMAD2 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Peripheral neuropathy myopathy hoarseness hearing loss syndrome	1	1	MYH14 (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Peripheral neuropathy, myopathy, hoarseness, and hearing	1	1	MYH14 (5)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Proximal renal tubular acidosis	1	1	SLC4A4 (3)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	pycnodysostosis	1	1	CTSK (2)	0.05882	1.00000	1.039e-3	1.739e-3	
Dental enamel hypoplasia	Dyshidrosis	1	0	PTPRD (1)	0.04762	0.20000	5.185e-3	6.342e-3	