

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 "Periodontal ehlers-danlos syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 01:06:23

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hashimoto disease	Periodontal ehlers-danlos syndrome	1	1	C1S (3)	0.03448	0.50000	3.504e-3	4.517e-3	
Complement component deficiency	Periodontal ehlers-danlos syndrome	1	1	C1S (6)	0.05263	0.50000	2.207e-3	3.113e-3	
Hereditary angioedema	Periodontal ehlers-danlos syndrome	1	1	C1S (3)	0.11111	0.50000	9.090e-4	1.576e-3	
Ehlers-danlos syndrome	Periodontal ehlers-danlos syndrome	2	2	C1S (7), C1R (6)	0.04444	1.00000	7.980e-6	4.002e-5	
Complement pathway abnormality	Periodontal ehlers-danlos syndrome	2	2	C1S (2), C1R (2)	0.22222	1.00000	2.362e-7	1.551e-6	