

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Diffuse idiopathic skeletal hyperostosis" (8 matching pairs). · Rows: 8 · Generated: 2026-10-09 19:39:17

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Diffuse idiopathic skeletal hyperostosis	Facial nerve disorder	2	0	CDC5L (1), SUPT3H (1)	0.11111	0.25000	1.296e-5	6.320e-5	
Diffuse idiopathic skeletal hyperostosis	Essential tremor	3	0	PIK3R1 (1), CDC5L (1), SUPT3H (1)	0.02830	0.27273	3.855e-5	1.765e-4	
Diffuse idiopathic skeletal hyperostosis	Short syndrome	1	1	PIK3R1 (6)	0.08333	1.00000	7.144e-4	1.335e-3	
Diffuse idiopathic skeletal hyperostosis	PIK3R1-related immunodeficiency and SHORT syndrome	1	1	PIK3R1 (2)	0.08333	1.00000	7.144e-4	1.335e-3	
Diffuse idiopathic skeletal hyperostosis	immunodeficiency 122	1	1	POLD3 (2)	0.08333	1.00000	7.144e-4	1.335e-3	
Bell's palsy	Diffuse idiopathic skeletal hyperostosis	2	0	CDC5L (1), SUPT3H (1)	0.03030	0.18182	6.996e-4	1.335e-3	
Cleidocranial dysplasia	Diffuse idiopathic skeletal hyperostosis	1	1	SUPT3H (2)	0.07143	0.33333	2.142e-3	3.043e-3	
Activated pi3k-delta syndrome	Diffuse idiopathic skeletal hyperostosis	1	1	PIK3R1 (2)	0.07143	0.33333	2.142e-3	3.043e-3	