

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Hypotrichosis simplex" (10 matching pairs). · Rows: 10 · Generated: 2026-10-10 03:19:16

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hypotrichosis	Hypotrichosis simplex	10	9	LSS (6), APCDD1 (6), KRT74 (6), CDSN (6), CDH3 (1), DSG4 (6), LIPH (5), LPAR6 (7), RPL21 (6), SNRPE (6)	0.50000	0.83333	6.229e-30	1.898e-28	
Hypotrichosis simplex	Woolly hair	3	3	KRT74 (6), LIPH (3), LPAR6 (4)	0.18750	0.50000	7.223e-9	6.008e-8	
Hypotrichosis simplex	Peeling skin syndrome	2	1	PSORS1C1 (1), CDSN (7)	0.11111	0.28571	1.167e-5	5.715e-5	
Hypotrichosis simplex	Rheumatic disease	2	2	PSORS1C1 (2), CDSN (3)	0.08333	0.16667	4.322e-5	1.965e-4	
Cataract-alopecia-sclerodactyly syndrome	Hypotrichosis simplex	1	1	LSS (3)	0.07692	1.00000	7.793e-4	1.405e-3	
Congenital hypotrichosis with juvenile macular dystrophy	Hypotrichosis simplex	1	1	CDH3 (3)	0.07692	1.00000	7.793e-4	1.405e-3	
EEM syndrome	Hypotrichosis simplex	1	1	CDH3 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
Hypotrichosis simplex	Palmoplantar keratoderma and congenital alopecia	1	1	LSS (4)	0.07692	1.00000	7.793e-4	1.405e-3	
Alopecia-intellectual disability syndrome	Hypotrichosis simplex	1	1	LSS (3)	0.07143	0.50000	1.558e-3	2.376e-3	
Hypotrichosis simplex	Perniola kraiewska carnevale syndrome	1	1	LSS (3)	0.06667	0.33333	2.336e-3	3.243e-3	