

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 "Machado-joseph disease" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 08:26:00

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Machado-joseph disease	Pemphigus vulgaris	1	0	THSD7B (1)	0.06667	0.14286	3.632e-3	4.667e-3	
Connective tissue neoplasm	Machado-joseph disease	1	0	THSD7B (1)	0.06250	0.12500	4.150e-3	5.234e-3	
autosomal dominant nonsyndromic hearing loss	Machado-joseph disease	1	1	ATP11A (2)	0.05882	0.12500	4.667e-3	5.787e-3	
Machado-joseph disease	Omenn syndrome	1	1	IFTAP (2)	0.05556	0.12500	5.185e-3	6.342e-3	
Bone neoplasms	Machado-joseph disease	1	0	THSD7B (1)	0.03448	0.12500	1.086e-2	1.224e-2	