

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 "Intervertebral disc displacement" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 20:59:44

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Intervertebral disc disease	Intervertebral disc displacement	2	2	COL11A1 (3), THBS2 (3)	0.14286	0.40000	3.792e-6	2.009e-5	
Congenital cartilage disorder	Intervertebral disc displacement	2	2	COL11A1 (2), CHST3 (2)	0.05882	0.40000	3.656e-5	1.677e-4	
Intervertebral disc displacement	spondyloepiphyseal dysplasia with congenital joint dislocations	1	1	CHST3 (2)	0.16667	1.00000	3.247e-4	7.705e-4	
autosomal dominant nonsyndromic hearing loss	Intervertebral disc displacement	1	1	COL11A1 (3)	0.07143	0.20000	2.919e-3	3.875e-3	
Intervertebral disc displacement	Peritoneal disease	1	1	COL11A1 (3)	0.07143	0.20000	2.919e-3	3.875e-3	