GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-22 03:00:19. Filters applied: disease name contains "Spinal muscular atrophy with congenital bone fractures 2" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 22:09:22

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Prenatal spinal muscular atrophy and congenital bone fractures	Spinal muscular atrophy with congenital bone fractures 2	1	0	ASCC1 (1)	0.33333	1.00000	1.291e-4	3.269e-4	
Hypotonia	Spinal muscular atrophy with congenital bone fractures 2	1	0	ASCC1 (1)	0.12500	1.00000	4.520e-4	8.264e-4	
Contracture	Spinal muscular atrophy with congenital bone fractures 2	1	0	ASCC1 (1)	0.06667	1.00000	9.039e-4	1.411e-3	
Centronuclear myopathy	Spinal muscular atrophy with congenital bone fractures 2	1	1	ASCC1 (2)	0.04348	1.00000	1.420e-3	2.040e-3	
Arthrogryposis	Spinal muscular atrophy with congenital bone fractures 2	1	0	ASCC1 (1)	0.04000	1.00000	1.550e-3	2.193e-3	