

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 "Spondylocostal dysostosis" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 08:12:12

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Jarcho-levin syndrome	Spondylocostal dysostosis	7	7	TBX6 (5), DLL3 (5), HES7 (6), LFNG (6), MESP2 (5), RIPPLY2 (7), DMRT2 (2)	0.70000	0.87500	1.574e-24	3.731e-23	
Klippel-feil syndrome	Spondylocostal dysostosis	2	1	RIPPLY2 (7), RIPPLY2-CYB5R4 (1)	0.14286	0.28571	4.954e-6	2.568e-5	
Congenital fusion of ribs	Spondylocostal dysostosis	1	1	DLL3 (5)	0.08333	0.25000	2.077e-3	2.969e-3	
Dysphoric mood	Spondylocostal dysostosis	1	1	DLL3 (5)	0.08333	0.25000	2.077e-3	2.969e-3	
Congenital hemivertebra	Spondylocostal dysostosis	1	1	DLL3 (5)	0.07692	0.20000	2.595e-3	3.514e-3	