

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Joint hypermobility" (18 matching pairs). · Rows: 18 · Generated: 2026-10-20 06:53:12

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
De barsy syndrome	Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	1	1	ALDH18A1 (3)	0.50000	1.00000	6.457e-5	1.985e-4	187
Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	Spastic paraplegia 9b, autosomal recessive	1	0	ALDH18A1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	187
Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	Spastic paraplegia 9	1	0	ALDH18A1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	187
Increased susceptibility to fractures	Joint hypermobility	1	0	KDEL2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	P5CS deficiency	1	1	ALDH18A1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	187
Cardiac anomalies-short stature-joint hypermobility-facial dysmorphism syndrome	Chromosome 6q24-q25 deletion syndrome	1	1	TAB2 (2)	0.50000	1.00000	6.457e-5	1.985e-4	
Cutis laxa, corneal clouding, and mental retardation	Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	1	0	ALDH18A1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	187
Cutis laxa, autosomal recessive, 3a	Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	1	0	ALDH18A1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	187
Cutis laxa, autosomal dominant 3	Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	1	0	ALDH18A1 (1)	0.50000	1.00000	6.457e-5	1.985e-4	187
Cardiac anomalies-short stature-joint hypermobility-facial dysmorphism syndrome	Congenital heart defects, multiple types, 2	1	1	TAB2 (4)	0.50000	1.00000	6.457e-5	1.985e-4	
Complex spastic paraplegia	Developmental disorder-joint hypermobility-skin laxity with or without metabolic abnormalities	1	1	ALDH18A1 (4)	0.33333	1.00000	1.291e-4	3.269e-4	187
Cardiac anomalies-short stature-joint hypermobility-facial dysmorphism syndrome	Stress urinary incontinence	1	1	TAB2 (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Bicuspid aortic valve	Cardiac anomalies-short stature-joint hypermobility-facial dysmorphism syndrome	1	1	TAB2 (2)	0.06667	1.00000	9.039e-4	1.411e-3	
Cardiac anomalies-short stature-joint hypermobility-facial dysmorphism syndrome	Diverticulitis	1	1	TAB2 (3)	0.03448	1.00000	1.808e-3	2.494e-3	
Joint hypermobility	Osteogenesis imperfecta	1	1	KDEL2 (5)	0.02381	1.00000	2.647e-3	3.413e-3	
Bone fragility with contractures, arterial rupture, and deafness	Joint hypermobility	1	1	KDEL2 (2)	0.02000	1.00000	3.164e-3	4.003e-3	
Joint hypermobility	Osteoporosis-pseudoglioma syndrome	1	1	KDEL2 (2)	0.02000	1.00000	3.164e-3	4.003e-3	
Gallstones	Joint hypermobility	1	1	KDEL2 (2)	0.00800	1.00000	8.006e-3	9.125e-3	