

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 "Carpenter syndrome" (23 matching pairs). · Rows: 23 · Generated: 2026-10-11 07:31:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cole-carpenter syndrome	Osteogenesis imperfecta	3	3	CRTAP (7), P4HB (6), SEC24D (6)	0.07500	1.00000	1.502e-8	1.186e-7	68
Bone fragility with contractures, arterial rupture, and deafness	Cole-carpenter syndrome	3	3	CRTAP (3), P4HB (6), SEC24D (6)	0.06000	1.00000	3.028e-8	2.295e-7	68
Cole-carpenter syndrome	Osteoporosis-pseudoglioma syndrome	3	3	CRTAP (3), P4HB (6), SEC24D (6)	0.06000	1.00000	3.028e-8	2.295e-7	68
Miles-carpenter syndrome	Wieacker-wolff syndrome	1	1	ZC4H2 (5)	0.50000	1.00000	6.494e-5	2.331e-4	
Miles-carpenter syndrome	Wieacker syndrome	1	1	ZC4H2 (2)	0.50000	1.00000	6.494e-5	2.331e-4	
Carpenter syndrome	MEGF8-related Carpenter syndrome	1	1	MEGF8 (4)	0.25000	1.00000	1.948e-4	5.354e-4	
Carpenter syndrome	RAB23-related Carpenter syndrome	1	1	RAB23 (5)	0.25000	1.00000	1.948e-4	5.354e-4	
Miles-carpenter syndrome	X-linked syndromic intellectual disability	1	1	ZC4H2 (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Miles-carpenter syndrome	Partington syndrome	1	0	ZC4H2 (1)	0.06667	1.00000	9.092e-4	1.576e-3	
Bladder exstrophy and epispadias complex	RAB23-related Carpenter syndrome	1	1	RAB23 (2)	0.03571	1.00000	1.753e-3	2.609e-3	
MEGF8-related Carpenter syndrome	Polydactyly	1	1	MEGF8 (2)	0.02500	1.00000	2.533e-3	3.446e-3	
Gastrointestinal stromal tumor	RAB23-related Carpenter syndrome	1	1	RAB23 (2)	0.02083	1.00000	3.052e-3	4.025e-3	
Craniosynostosis	MEGF8-related Carpenter syndrome	1	1	MEGF8 (2)	0.01667	1.00000	3.832e-3	4.884e-3	
Arthrogryposis multiplex congenita	Miles-carpenter syndrome	1	1	ZC4H2 (2)	0.01370	1.00000	4.676e-3	5.787e-3	
Bladder exstrophy and epispadias complex	Carpenter syndrome	1	1	RAB23 (4)	0.03333	0.33333	5.252e-3	6.417e-3	
Carpenter syndrome	Polydactyly	1	1	MEGF8 (3)	0.02381	0.33333	7.580e-3	8.885e-3	
Cole-carpenter syndrome	Retinal detachment	1	1	CRTAP (3)	0.02041	0.33333	8.936e-3	1.030e-2	
Carpenter syndrome	Gastrointestinal stromal tumor	1	1	RAB23 (5)	0.02000	0.33333	9.130e-3	1.045e-2	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cole-carpenter syndrome	Spinocerebellar ataxia	1	1	P4HB (6)	0.00935	0.33333	2.013e-2	2.189e-2	
Myocardial ischemia	RAB23-related Carpenter syndrome	1	1	RAB23 (2)	0.00255	1.00000	2.539e-2	2.713e-2	
Desbuquois syndrome	MEGF8-related Carpenter syndrome	1	1	MEGF8 (2)	0.00176	1.00000	3.682e-2	3.867e-2	
Desbuquois syndrome	RAB23-related Carpenter syndrome	1	1	RAB23 (2)	0.00176	1.00000	3.682e-2	3.867e-2	
Color vision deficiency	MEGF8-related Carpenter syndrome	1	1	MEGF8 (2)	0.00103	1.00000	6.274e-2	6.418e-2	