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: 2026-10-20 03:00:20. Filters applied: disease name contains "Muscle cramps" (15 matching pairs). · Rows: 15 · Generated: 2026-10-20 06:36:04

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Abnormal muscle physiology	Muscle cramps	1	0	POC5 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Genitopatellar syndrome	Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	1	1	KAT6B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Familial hematuria-retinal arteriolar tortuosity-contractures syndrome	Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	1	1	COL4A1 (6)	0.33333	1.00000	1.291e-4	3.269e-4	290
Colpocephaly	Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	1	1	COL4A1 (4)	0.33333	1.00000	1.291e-4	3.269e-4	290
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	Retinal arterial tortuosity	1	1	COL4A1 (5)	0.33333	1.00000	1.291e-4	3.269e-4	290
COL4A1-related disorder	Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	1	1	COL4A1 (5)	0.33333	1.00000	1.291e-4	3.269e-4	290
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	Porencephaly 1	1	1	COL4A1 (4)	0.33333	1.00000	1.291e-4	3.269e-4	290
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	KAT6B-related disorders	1	1	KAT6B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	Ohdo syndrome, sbbys variant	1	1	KAT6B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	Sbbyss syndrome	1	1	KAT6B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Hereditary angiopathy with nephropathy, aneurysms, and muscle cramps	Simpson syndrome	1	1	KAT6B (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Muscle cramps	Retinal dystrophy	1	0	POC5 (1)	0.05556	1.00000	1.098e-3	1.651e-3	
Lipodystrophy	Muscle cramps	1	0	POC5 (1)	0.04545	1.00000	1.356e-3	1.965e-3	
Muscle cramps	Optic atrophy	1	1	POC5 (2)	0.00526	1.00000	1.220e-2	1.348e-2	
Anorexia nervosa	Muscle cramps	1	1	POC5 (2)	0.00398	1.00000	1.614e-2	1.753e-2	