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 "Juvenile xanthogranuloma" (7 matching pairs). · Rows: 7 · Generated: 2026-10-20 04:25:09

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Central conducting lymphatic anomaly	Juvenile xanthogranuloma	1	0	ARAF (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Diffuse lymphatic malformation	Juvenile xanthogranuloma	1	1	ARAF (2)	0.11111	1.00000	5.165e-4	9.125e-4	
Benign blood vessel neoplasm	Juvenile xanthogranuloma	2	0	FBXO11 (1), MSH6 (1)	0.15385	0.33333	3.498e-6	1.988e-5	
Intellectual developmental disorder dysmorphic behavioral	Juvenile xanthogranuloma	2	2	FBXO11 (5), MSH6 (2)	0.18182	0.50000	1.400e-6	8.367e-6	
Juvenile xanthogranuloma	Noonan syndrome with multiple lentigines	2	2	NRAS (2), MAP2K1 (2)	0.18182	0.50000	1.400e-6	8.367e-6	
Intradermal nevus	Juvenile xanthogranuloma	2	0	IDH2 (1), NRAS (1)	0.22222	1.00000	2.335e-7	1.551e-6	
Juvenile xanthogranuloma	Mediastinal yolk sac tumor	3	0	FBXO11 (1), MSH6 (1), NRAS (1)	0.13043	0.37500	6.130e-8	4.416e-7	