

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 "Saethre-chotzen syndrome" (8 matching pairs). · Rows: 8 · Generated: 2026-10-11 21:08:30

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Achondroplasia	Saethre-chotzen syndrome	1	1	FGFR3 (3)	0.25000	1.00000	1.948e-4	5.354e-4	
Saethre-chotzen syndrome	Sweeney-cox syndrome	1	1	TWIST1 (6)	0.25000	1.00000	1.948e-4	5.354e-4	
Saethre-chotzen syndrome	TWIST1-related craniosynostosis	1	1	TWIST1 (6)	0.25000	1.00000	1.948e-4	5.354e-4	
Brachycephaly	Saethre-chotzen syndrome	2	2	FGFR3 (2), TWIST1 (6)	0.16667	0.66667	1.138e-6	6.619e-6	
Coronal craniosynostosis	Saethre-chotzen syndrome	2	2	FGFR3 (2), TWIST1 (6)	0.40000	0.66667	7.592e-8	5.413e-7	
Craniofacial dysostosis	Saethre-chotzen syndrome	2	2	FGFR3 (2), FGFR2 (6)	0.40000	0.66667	7.592e-8	5.413e-7	
Lacrimoauriculodentodigital syndrome	Saethre-chotzen syndrome	2	2	FGFR3 (5), FGFR2 (6)	0.40000	0.66667	7.592e-8	5.413e-7	
Ladd syndrome	Saethre-chotzen syndrome	2	2	FGFR3 (4), FGFR2 (6)	0.40000	0.66667	7.592e-8	5.413e-7	