

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: 2026-10-21 12:58:11. Filters applied: disease name contains "Hypogonadotropic hypogonadism 11 with or without anosmia" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 14:21:27

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hypogonadotropic hypogonadism 11 with or without anosmia	Isolated gnrh deficiency	1	0	TACR3 (1)	0.25000	1.00000	1.937e-4	4.415e-4	
Hypogonadotropic hypogonadism 11 with or without anosmia	Pituitary short stature	1	1	TACR3 (2)	0.02857	1.00000	2.195e-3	2.917e-3	
Hypogonadotropic hypogonadism 11 with or without anosmia	Sheehan syndrome	1	1	TACR3 (2)	0.02857	1.00000	2.195e-3	2.917e-3	
Growth hormone deficiency	Hypogonadotropic hypogonadism 11 with or without anosmia	1	1	TACR3 (2)	0.02778	1.00000	2.260e-3	2.989e-3	
Hypogonadotropic hypogonadism 11 with or without anosmia	Kallmann syndrome	1	1	TACR3 (3)	0.02564	1.00000	2.454e-3	3.194e-3	