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 "Intellectual disability with facial dysmorphism" (4 matching pairs). · Rows: 4 · Generated: 2026-10-20 03:38:53

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Intellectual disability with facial dysmorphism	Major depressive disorder	1	1	H4C11 (2)	0.00051	1.00000	1.265e-1	1.273e-1	
Inflammatory bowel disease	Intellectual disability with facial dysmorphism	1	1	H4C11 (2)	0.00144	1.00000	4.481e-2	4.640e-2	
Intellectual disability with facial dysmorphism	Irritable bowel syndrome	1	1	H4C11 (2)	0.00741	1.00000	8.652e-3	9.793e-3	
Intellectual disability with facial dysmorphism	Tessadori-van haaften neurodevelopmental syndrome	1	1	H4C11 (5)	0.06250	1.00000	9.685e-4	1.496e-3	