

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 "Estrogen resistance" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 17:49:37

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Estrogen resistance	Male breast carcinoma	2	2	ESR1 (6), CCDC170 (2)	0.28571	0.66667	2.530e-7	1.653e-6	
Estrogen resistance	Myelogenous leukemia	1	1	CCDC170 (2)	0.16667	0.33333	5.844e-4	1.156e-3	
Emery-dreifuss muscular dystrophy	Estrogen resistance	1	1	ESR1 (5)	0.10000	0.33333	1.363e-3	2.148e-3	
Estrogen resistance	Leiomyoma	1	1	ESR1 (6)	0.07692	0.33333	1.947e-3	2.828e-3	
Central precocious puberty	Estrogen resistance	1	1	ESR1 (6)	0.07143	0.33333	2.142e-3	3.044e-3	