See.. > Nitin > Computational Tools

<https://www.nature.com/articles/s41596-018-0103-9>

January 23, 2023

Notes on paper/terminology

**Pathway enrichment analysis and visualization of omics data using g:Profiler, GSEA, Cytoscape and EnrichmentMap**

- Paper provides steps on interpreting results from RNA-seq experiments by defining gene lists from the data, determining enriched pathways, and visualising the results <- pathway enrichment analysis

- pathway enrichment analysis determines which pathways are overrepresented in a large gene list

Input: (sometimes ranked) list of genes and expression data

Output: list of pathways and statistical measures indicating activity wrt expected (p,q-val..)

Output can then be visualised/interpreted in different ways

Terminology:

Omics:

Enriched pathways: