

GoBi: Exercise 5

Differential Expression

Deadline: Thursday, 03.02.2016, 14:00

Save your solution to `/home/proj/biocluster/genprakt/${stud_account}/Solution4`.

The base path for all relative paths in the tasks is:

`/home/proj/biosoft/praktikum/genprakt/assignments/a5`

Task 1 (Gene set analysis with EnrichmentBrowser):

Compute Gene ontology overrepresentation analyses from the liver/melanocyte dataset using EnrichmentBrowser.

Use the gene-unique transcriptome NRP-s from the last assignment. Before you start, read the EnrichmentBrowser manual. Use the script:

`scripts/eBrowserCMD.R`

Instruct EnrichmentBrowser to use DEseq as DE-method and to perform the enrichment analysis on the GO sets.

Compute ORA and GSEA with 100 permutation and using a p-value cutoff of 5%. Generate a tabular and an html output interpret the results and copy the table to the solution folder.