BioinformaticsLibrary Manual

Table of Contents

auto	extract	intersection	from	enrichment1	l	
extractIntersection						
plot	PANTHER	enrich				

Index

```
auto extract intersection from enrichment
```

Description

Will loop through all tabs of a GO enrichment .xlsx file to extract the "intersection" genes from a second, gene annotation file. Note each sheet name from the enrich_file will be used as the treatment description. I.e., ensure that the sheet names in your enrich_file are named something specific to your treatments (ex: LeafFeEx).

Arguments

Accepts a .csv or .xlsx file. The first column must be the gene identifiers
that match the gene identifiers found in the "intersection" column of the
"enrich_file". If .xlsx file is provided, the first sheet will be used.
The first column must provide the Gene_ID.
Standard GO enrichment output from any gProfiler enrichment function
used in this Bioinformatics library.
User specified output file name. If no name is provided, the default file
name, "Compiled_GO_Enrich_Genes" will be used.

Examples

extractIntersection

Description

Will extract a dataframe of gene information based on the "intersection" column that is an output from the gProfiler enrichment functions.

goEnrichDF)

Arguments

geneDF Dataframe of gene annotation information. The first column must contain

Gene ID information and must match the IDs in the "intersection"

column of the goEnrichDF dataframe.

goEnrichDF Dataframe of standard GO enrichment output from any gProfiler

enrichment function used in this Bioinformatics library.

Examples

plot PANTHER enrich

Description

Generate dotplot from standard PANTHER overenrichment output test file.

Usage

Arguments

file Standard output .txt file from PANTHER overenrichment test.

title Name of the figure title to be added to the top of the figure. Default is

'PANTHER GO enrichment'.

total query genes Number of genes used in the GO enrichment query. This input number

can be different than the number identified by PANTHER. Accepts integer values. If left blank, it will extract the number provided by the

output file.

sort by Categories that can be used to sort the row order of the dot plot.

Acceptable arguments are: 'Name', 'Pvalue', 'Counts', 'Ratio'.

output name Specifies the name of the output file image. The file extension will

dictate the file format of the saved image. Acceptable file extensions are

'.pdf', '.png', '.svg', '.eps'. If an acceptable file extension is not provided in the file name, a pdf will be generated with a default name

and an error message.

plot_width Species the width of the final image. Accepts integer values. Default is 8.

plot height Species the height of the final image. Accepts integer values. Default is

10.

Examples