Package 'CMapViz'

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Type Package			
Title Representation Tool For Output Of Connectivity Map (CMap) Analysis			
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Description Automatically displays graphical visualization for exported data table (permutated results) from Connectivity Map (CMap) (2006) <doi:10.1126 science.1132939="">. It allows the representation of the statistics (pvalue and enrichment) according to each cell lines in the form of a bubble plot.</doi:10.1126>			
BugReports https://github.com/Peyronlab/CMapViz/issues			
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bubble_plot	Bubble plot of CMap output table	

Description

This function allows the user to represent the Connectivity Map (CMap) result table (broadinstitute) under the form of a bubble plot representing statistics and cell lines: - each drug is represented along the y axis according to its enrichment value - each drug is represented along the x axis according to the cell line tested and within the cell line according to batch specificity (0-50

Usage

Arguments

path path of the excel file (permutated results) plot what data to plot: molecules only (plot="molecules") or molecules by cell lines batch (plot="cell.lines") enrichment whether to plot positive or negative enrichment abs.enrich.cutoff minimum value of enrichment to include a batch n.rep.cutoff minimum number of replicates to include a batch (default=NULL) whether apply jittering to the values to avoid points overlap jittering return.gg.table table prepared for ggplot, allows the user to customize the graphical representapath for the experiment output folder, returns data table and figure (default=NULL) output_path

Value

```
ggplot object - bubble plot
```

Examples

```
file.path <- system.file("extdata", "example.xls", package = "CMapViz")
#display results by cell lines, with negative enrichment (absolute cutoff: 0.5), and at least n=5.
#molecule position with respect of dotted line is the specificity of the molecule itself:
#left side of dotted line if specificity < 50 or right side of dotted line if specificity > 50 )
bubble_plot(file.path,
    plot = "cell.lines", enrichment = "negative", abs.enrich.cutoff = 0.5,
    n.rep.cutoff = 5, output_path = NULL
)
```

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