

Package ‘pRolocGUI’

April 15, 2017

Title Interactive visualisation of spatial proteomics data

Version 1.8.2

Author Lisa M Breckels, Thomas Naake and Laurent Gatto

Maintainer Laurent Gatto <lg390@cam.ac.uk>,
Lisa M Breckels <lms79@cam.ac.uk>

Description The package pRolocGUI comprises functions to interactively visualise organelle (spatial) proteomics data on the basis of pRoloc, pRolocdata and shiny.

Depends methods, R (>= 3.1.0), pRoloc (>= 1.11.1), Biobase, MSnbase (>= 1.13.11)

Imports shiny (>= 0.9.1), scales, dplyr, DT (>= 0.1.40), graphics, utils

Suggests pRolocdata, knitr, BiocStyle, rmarkdown

License GPL-2

URL <http://ComputationalProteomicsUnit.github.io/pRolocGUI/>

BugReports <https://github.com/ComputationalProteomicsUnit/pRolocGUI/issues>

VignetteBuilder knitr

Video <https://www.youtube.com/playlist?list=PLvIXxpatSLA2loV5Srs2VBpJIYUIVJ4ow>

biocViews Proteomics, Visualization, GUI

RoxygenNote 5.0.1

NeedsCompilation no

R topics documented:

pRolocVis	2
Index	4

Description

These functions allow one to explore spatial proteomics data interactively.

Usage

```
pRolocVis(object, app = "main", fcol, ...)
```

```
pRolocVis_classify(object, fcol, scol, mcol = "markers", legend.cex = 1,
...)
```

```
pRolocVis_compare(object, fcol1, fcol2, foi, fig.height = "600px",
fig.width = "100%", legend.width = "200%", legend.cex = 1,
remap = TRUE, nchar = 40, all = TRUE, ...)
```

```
pRolocVis_pca(object, fcol = "markers", foi, fig.height = "600px",
fig.width = "100%", legend.width = "200%", legend.cex = 1,
nchar = 40, all = TRUE, ...)
```

Arguments

object	An instance of class MSnSet, or an MSnSetList of length 2 if using "compare" application.
app	The type of application requested: "main" (default), "classify", "compare". See description below.
fcol	The feature meta-data label (fData column name) to be used for colouring. Default is "markers". This will correspond to the prediction column if using "classify", or the markers (labelled data) to be plotted otherwise. If set to NULL, no annotation is expected.
...	Additional parameters passed to the respective app.
scol	The feature meta data column containing the classification scores.
mcol	The feature meta data column containing the labelled training data, for use with "classify".
legend.cex	Point character expansion for the the legend. Default is 1.
fcol1	If using the compare app this is the feature meta-data label (fData column name) for the first dataset in the MSnSetList. Default is markers.
fcol2	If using the compare app this is the feature meta-data label (fData column name) for the second dataset in the MSnSetList. Default is markers.
foi	A FeaturesOfInterest or FoICollection object.
fig.height	Height of the figure. Default is "600px".
fig.width	Width of the figure. Default is "100px".
legend.width	Width of the legend. Default is "200%".
remap	A logical indicating whether the second dataset in the MSnSetList should be remapped to the first dataset.names(cols) <- myclasses Default is

Index

FeaturesOfInterest, [2](#)

FoICollection, [2](#)

getPredictions, [3](#)

pRolocVis, [2](#)

pRolocVis_classify (pRolocVis), [2](#)

pRolocVis_compare (pRolocVis), [2](#)

pRolocVis_pca (pRolocVis), [2](#)