Package ‘OLINgui’

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Title Graphical user interface for OLIN
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Imports graphics, marray, OLIN, tcltk, tkWidgets, widgetTools
Description Graphical user interface for the OLIN package
biocViews Microarray, TwoChannel, QualityControl, Preprocessing,
        Visualization
License GPL-2
NeedsCompilation no

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OLINgui

Graphical user interface for OLIN package

Description

The function OLINgui provides a graphical user interface for visualisation, normalisation and quality testing of two-channel microarray data. It is based on the functions of the OLIN package.

Usage

OLINgui()
Details

The function `OLINgui` launches a graphical user interface for the OLIN package. It is based on Tk widgets using the R TkTk interface by Peter Dalgaard. It also employs some pre-made widgets from the tkWidgets Bioconductor-package by Jianhua Zhang for the selection of objects/files to be loaded.

`OLINgui` provides a convenient interface to most functionalities of the OLIN package without restriction of options. An exception is the visualisaton, where default arguments for plotting are used. To fine-tune plots, the underlying plotting functions in the OLIN package can be applied.

The usage of `OLINgui` assumes existing marray objects for the batch of arrays to be analysed and normalised. To construct marray objects using a graphical interface, refer to `read.marrayRaw`. Some underlying functions (e.g. `mxy2.plot` and optionally `olin`) require an additional list of X- and Y-coordinates of spots. This has to be done “by hand” yet. However, most functions do not need this list.

For a overview of the functionality of `OLINgui`, please refer to the package documentation.

Value

`OLINgui` returns a tclObj object.

Note

The newest versions of `OLINgui` can be found at the OLIN webpage (http://itb.biologie.hu-berlin.de/~futschik/software/R/OLIN).

Author(s)

Matthias E. Futschik (http://itb.biologie.hu-berlin.de/~futschik)

References

2. M.Futschik and T.Crompton (2005), Optimized normalization, visualization and quality testing for two-channel microarray data, Bioinformatics, 21(8):1724-6
3. OLIN web-page: http://itb.biologie.hu-berlin.de/~futschik/software/R/OLIN

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