

Package ‘OLINgui’

April 18, 2025

Version 1.83.0

Title Graphical user interface for OLIN

Author Matthias Futschik <mfutschik@ualg.pt>

Maintainer Matthias Futschik <mfutschik@ualg.pt>

Depends R (>= 2.0.0), OLIN (>= 1.4.0)

Imports graphics, marray, OLIN, tcltk, tkWidgets, widgetTools

Description Graphical user interface for the OLIN package

biocViews Microarray, TwoChannel, QualityControl, Preprocessing,
Visualization

License GPL-2

URL <http://olin.sysbiolab.eu>

git_url <https://git.bioconductor.org/packages/OLINgui>

git_branch devel

git_last_commit 6b103bf

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-04-17

Contents

OLINgui	1
Index	3

OLINgui	<i>Graphical user interface for OLIN package</i>
---------	--

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 TclTk 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 visualisation, 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

1. M.Futschik and T.Crompton (2004) *Model selection and efficiency testing for normalization of cDNA microarray data*, **Genome Biology**, 5:R60
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>

See Also

`olin`

Index

- * **misc**
 - OLINGui, [1](#)
- * **multivariate**
 - OLINGui, [1](#)
- * **nonlinear**
 - OLINGui, [1](#)
- mxy2.plot, [2](#)
- olin, [2](#)
- OLINGui, [1](#)
- read.marrayRaw, [2](#)