affylmGUI

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`affylmGUI` *Graphical User Interface for the limma microarray package*

Description

Graphical User Interface for Affy analysis using the limma microarray package

Usage

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AboutaffylmGUI()
affyHelp()
affylmGUI(BigfontsForaffylmGUIpresentation=FALSE)
affylmGUIhelp()
affyPlotMA()
affyPlotMAcontrast()
ALGlimmaUsersGuide(view=TRUE)
ChooseCDF()
ChooseContrastParameterization()
chooseDir()
ChooseEbayesStatistic()
ComputeContrasts()
ComputeLinearModelFit()
CopyGraph(img)
DeleteContrastParameterization()
deleteItemFromList(list1,itemName=NULL,index=NULL)
DensityPlot()
DensityPlotAll()
evalRcode()
ExportHTMLreport()
ExportNormalizedExpressionValues()
ExportTopTable()
```

```
fixSeps(string)
generalPlotFunction(code="",WindowTitle="")
GetComponentsToExportInHTMLreport(contrastParameterizationIndex=NULL)
GetContrast(contrastParameterizationIndex)
GetContrastNamesForHeatDiagram(numContrasts=2,ContrastNames=c("Contrast 1","Cont
GetContrastParameterizationName()
GetContrasts(NumContrasts=0)
GetDEcutoff()
GetGeneLabelsOptions()
GetJpegOrPngParams(graphFileType)
GetJpegOrPngX11Params(graphFileType)
GetlimmaDataSetName()
GetLogPLMDataChoice()
GetMultipleContrasts(contrastParameterizationIndex)
GetNormalizationMethod()
getPackageVersion(pkgName)
GetParameterizationName()
GetPlotLabels(plottitle="",xlabel="",ylabel="")
GetPlotSize()
GetPlotTitle(plottitle="")
GetPValueCutoff(p.value=0.01)
GetResidualTypeChoice()
GetRNATypesFrom.ContrastsFromDropDowns.String(string)
GetSetNames(numSets=2,set1="",set2="",set3="")
GetSlideNum(all=FALSE)
GetSlideNums()
GetWhichProbes(includeBoth=FALSE)
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GetWtFlagParams()
HeatDiagramDialog(parameterName)
HeatDiagramPlot()
HTMLplotUsingFunction(Caption = "", File = .HTML.file, GraphRelativeDirectory =
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ImageQualityResidualPlot()
ImageQualityWeightPlot()
initGlobals()
IntensityHistogram()
IntensityHistogramAll()
limmaHelp()
LogOddsPlot()
NewLimmaFile()
NormalizedIntensityBoxPlot()
NormalizeNow()
nstrstr(haystack,needle)
NUSEPlotAll()
onDestroy()
onExit()
OpenALimmaFile(FileName)
OpenCDFandTargetsfiles()
OpenCDFFile()
OpenLimmaFile(FileName)
OpenTargetsFile()
```

```
PlotOptions()
QQTplot()
RawIntensityBoxPlot()
Require(pkg)
Resize(img,plotFunction)
RLEPlotAll()
RNADegradationPlotAll()
SaveAsLimmaFile()
SaveGraphAsJpeg(initialfile, plotFunction)
SaveGraphAsPDF(initialfile, plotFunction)
SaveGraphAsPNG(initialfile, plotFunction)
SaveGraphAsPostscript(initialfile, plotFunction)
SaveLimmaFile()
SetupPlotKeyBindings(tt,img)
SetupPlotMenus(tt,initialfile,plotFunction,img)
SetWD()
showChangeLog(n = 20)
showCitations()
showTopTable(...,export=FALSE)
SimplifyContrastsExpression(string)
strstr(haystack, needle)
tclArrayVar()
TclRequire(tclPkg)
topTable2(fit, coef = 1, number = 10, genelist = NULL,adjust.method = "holm", so
toptable2(fit, coef = 1, number = 10, genelist = NULL, A = NULL,eb = NULL, adjus
Try(expr)
TryReadImgProcFile(expr)
UpDownOrBoth()
vennDiagramaffylmGUI(object, include = "both", names, cex = 1.5, mar = rep(1, 4)
VennDiagramPlot()
ViewContrastsMatrixAsPairs(contrastsMatrix, contrastsMatrixList,contrastParamete
ViewContrastsMatrixInTable(contrastsMatrixList, contrastParameterizationIndex =
ViewExistingContrastParameterization()
ViewRNATargets()
```

Arguments

BigfontsForaffylmGUIpresentation	affylmGUI:arg1:If set to TRUE, larger fonts are used. However, some font sizes are not controlled by affylmGUI and so must be adjusted in the operating system, e.g. in the Control Panel in Windows under Display, Appearance.
...	HTMLplotUsingFunction:arg14:and:showTopTable:arg1:and:toptable2:arg9:and:vennDiagramaffyln
Align	HTMLplotUsingFunction:arg8
all	GetSlideNum:arg1
BG	HTMLplotUsingFunction:arg12
Caption	HTMLplotUsingFunction:arg1
code	generalPlotFunction: arg1: a code
ContrastNames	GetContrastNamesForHeatDiagram:arg2
contrastParameterizationIndex	GetComponentsToExportInHTMLreport:arg1:and:contrastParameterizationIndex:arg1:and:GetContr

export	showTopTable:arg2
expr	Try:arg1:and:TryReadImgProcFile:arg1
FileName	OpenALimmaFile:arg1:and:OpenLimmaFile:arg1
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graphFileType	GetJpegOrPngParams:arg1:and:GetJpegOrPngX11Params:arg1
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haystack	nstrstr:arg1:and:strstr:arg1
Height	HTMLplotUsingFunction:arg11
img	Resize:arg1:and:SetupPlotMenus:arg4:and:CopyGraph:arg1:and:SetupPlotKeyBindings:arg2
includeBoth	GetWhichProbes:arg1
index	deleteItemFromList:arg3:an index
initialfile	SetupPlotMenus:arg2:and:SaveGraphAsJpeg:arg1:and:SaveGraphAsPDF:arg1:and:SaveGraphAsPN
itemName	deleteItemFromList:arg2:an item name
list1	deleteItemFromList:arg1:a list
needle	nstrstr:arg2:and:strstr:arg2
NumContrasts	GetContrasts:arg1
numContrasts	GetContrastNamesForHeatDiagram:arg1
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p.value	GetPValueCutoff:arg1:A p-value cutoff.
parameterName	HeatDiagramDialog:arg1
pkgName	getPackageVersion:arg1
pkg	Require:arg1
plotFunction	Resize:arg2:and:HTMLplotUsingFunction:arg9:and:SetupPlotMenus:arg3:and:SaveGraphAsJpeg:ar
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res	HTMLplotUsingFunction:arg13
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set2	GetSetNames:arg3
set3	GetSetNames:arg4
string	fixSeps:arg1:A character string:and:GetRNATypesFrom.ContrastsFromDropDowns.String:arg1:and:
tclPkg	TclRequire:arg1
tt	SetupPlotMenus:arg1:and:SetupPlotKeyBindings:arg1
view	ALGlimmaUsersGuide:arg1:A boolean determinig if the users'd guide will be viewed

Width	HTMLplotUsingFunction:arg10
WindowTitle	generalPlotFunction: arg2: a title
xlabel	GetPlotLabels:arg2
ylabel	GetPlotLabels:arg3
fit	topTable2:arg1:and:toptable2:arg1
coef	topTable2:arg2:and:toptable2:arg2
number	topTable2:arg3:and:toptable2:arg3
genelist	topTable2:arg4:and:toptable2:arg4
A	toptable2:arg5
eb	toptable2:arg6
adjust.method	topTable2:arg5:and:toptable2:arg7
sort.by	topTable2:arg6:and:toptable2:arg8
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include	vennDiagramaffylmGUI:arg2
names	vennDiagramaffylmGUI:arg3
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mar	vennDiagramaffylmGUI:arg5
contrastsMatrix	ViewContrastsMatrixAsPairs:arg1
contrastsMatrixList	ViewContrastsMatrixAsPairs:arg2:and:ViewContrastsMatrixInTable:arg1
n	showChangeLog:arg1
PointSize	HTMLplotUsingFunction:arg12

Details

This function launches a Graphical User Interface for the limma package by Gordon Smyth. The GUI uses Tk widgets (via the R TclTk interface by Peter Dalgaard) in order to provide a simple interface to the limma functions for linear modelling of microarrays and identification of differentially expressed genes.

Author(s)

James Wettenhall

`ALGchangeLog` *affylmGUI Change Log*

Description

Write as text the most recent changes from the affylmGUI package changelog.

Usage

```
ALGchangeLog(n=20)
```

Arguments

`n`	integer, number of lines to write of changelog.

Value

No value is produced, but a number of lines of text are written to standard output.

Author(s)

Gordon Smyth

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