

# Package ‘iFlow’

October 9, 2013

**Type** Package

**Title** GUI based visualization for flow cytometry

**Version** 2.12.0

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**Maintainer** Kyongryun Lee <kyongryun.lee@gmail.com>

**Description** Tool to explore and visualize flow cytometry

**License** Artistic-2.0

**Depends** R (>= 2.13.0), flowCore, flowViz, flowStats (>= 1.3.20)

**Imports**

Biobase, RGtk2, cairoDevice, flowCore, flowStats, flowViz,grDevices, graphics, methods, utils

**biocViews** FlowCytometry, Bioinformatics, GUI

**URL** <http://www.hindawi.com/journals/abi/2009/103839.html>

**LazyLoad** yes

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iFlow-package

*iFlow*

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**Description**

GUI based visualization for preprocessing of analyzing Flow Cytometry data.

**Details**

Package:

Type:

Version:

Date:

License:

LazyLoad:

The tutorial video can be downloaded from <http://bioconductor.fhcrc.org/docs/workflows/flowcytometry/tutorial>

### Author(s)

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### References

<http://www.hindawi.com/journals/abi/2009/103839.html>

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guiEnv

*Accessor to the internal GUI environment*

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### Description

All state information for the GUI is stored in an internal environment. This function can be used to access this environment.

### Usage

```
## .guiEnv$list name such as Gate.list, workflowlist
```

### Value

The internal gui environment.

### Author(s)

Kyongryun Lee

### Examples

```
## 1. Run iFlow
## Not run: iflow()
## 2. Load data
## Not run: data(GvHD)
## 3. Activate data by clicking a data name on Data panel
## 4. Create a gate
## 5. It is able to access created gate objects or workflow of the data on the command lines as follows.
```

```
## The workflow is automatically created whenever the operations of the data are run.  
  
## wf.list <- .guiEnv$workflow.list  
## wf.list  
  
## gt.list <- .guiEnv$Gate.list  
## gt.list  
  
## Not run: iFlow:::guiEnv$Gatelist
```

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iflow

*Main function for iFlow*

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### **Description**

Main function for iFlow. It calls up the main graphical user interface (GUI) of the iFlow package.

### **Usage**

```
iflow()
```

### **Details**

The GUI Pull-Down Menu consists of "File", "Data", "Graphics", "Gate", "ProbBin", and "Help" selections. The user can start with "File" pull-down menu to load data files of interest. The data file can be in either rda or FCS format. Please see the vignette or tutorial video for more detail (<http://bioconductor.fhcrc.org/docs/workflows/flowcytometry/tutorial.mpeg>).

### **Author(s)**

Kyongryun Lee <[kyongryun.lee@gmail.com](mailto:kyongryun.lee@gmail.com)>

### **Examples**

```
## on R console  
iflow()  
data(ITN)
```

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