

Package ‘DLBCL’

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Type Package

Title Diffuse large B-cell lymphoma expression data

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Description This package provides additional expression data on diffuse large B-cell lymphomas for the BioNet package.

License GPL (>=2)

Depends R(>= 2.11.0), Biobase, graph

LazyLoad yes

URL <http://bionet.bioapps.biozentrum.uni-wuerzburg.de/>

biocViews ExperimentData, CancerData, MicroarrayData, ChipOnChipData

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DLBCL-package

Routines for the functional analysis of biological networks

Description

This package provides an expression set on diffuse large B-cell lymphoma and an protein-protein interaction network obtained from HPRD release 6. It accompanies the BioNet packages as example data. For further information on the data and the BioNet package, see references below.

Details

| | |
|-----------|------------|
| Package: | DLBCL |
| Type: | Package |
| Version: | 1.2 |
| Date: | 2010-03-26 |
| License: | GPL (>=2) |
| LazyLoad: | yes |

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References

M. T. Dittrich, G. W. Klau, A. Rosenwald, T. Dandekar and T. Mueller (2008) Identifying functional modules in protein-protein interaction networks: an integrated exact approach. (*ISMB2008*) *Bioinformatics* 24: 13. i223-i231 Jul.

D. Beisser, G. W. Klau, T. Dandekar, T. Mueller and M. Dittrich (2009) BioNet: an R-package for the Functional Analysis of Biological Networks. *Bioinformatics*.

A. A. Alizadeh, M. B. Eisen, R. E. Davis et al. (2000) Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling. *Nature* 403: 503-11.

| | |
|---------|---|
| dataLym | <i>Additional data for the lymphoma microarray chip (exprLym)</i> |
|---------|---|

Description

The dataset contains additional data for the exprLym dataset. It includes p-values for the gene expression, p-values for the survival data, an example score etc.

Usage

```
data(dataLym)
```

References

A. Rosenwald et al. (2002). The use of molecular profiling to predict survival after chemotherapy for diffuse large-B-cell lymphoma. *N Engl J Med*, 346(25), 1937-1947.

Examples

```
data(dataLym)  
str(dataLym)
```

| | |
|---------|--|
| exprLym | <i>Expression set diffuse large B-cell lymphomas</i> |
|---------|--|

Description

The dataset contains an expression set on diffuse large B-cell lymphoma. It accompanies the BioNet packages as example data. For further information on the data and the BioNet package see:

M. T. Dittrich, G. W. Klau, A. Rosenwald, T. Dandekar and T. Mueller (2008) Identifying functional modules in protein-protein interaction networks: an integrated exact approach. (*ISMB2008*) *Bioinformatics* 24: 13. i223-i231 Jul.

D. Beisser, G. W. Klau, T. Dandekar, T. Mueller and M. Dittrich (2009) BioNet: an R-package for the Functional Analysis of Biological Networks. *Bioinformatics*.

A. A. Alizadeh, M. B. Eisen, R. E. Davis et al. (2000) Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling. *Nature* 403: 503-11.

Usage

```
data(exprLym)
```

Examples

```
data(exprLym)  
exprs(exprLym)[1:10, ]
```

interactome

Human protein-protein interaction network

Description

The dataset contains the human proteome, extracted from the Human Protein Reference Database (HPRD) from 2006 that is used in the ABC GCB diffuse large B-cell lymphoma analysis. The format of the dataset is a graph object.

Usage

```
data(interactome)
```

References

M. T. Dittrich, G. W. Klau, A. Rosenwald, T. Dandekar, T. Mueller (2008) Identifying functional modules in protein-protein interaction networks: an integrated exact approach. (*ISMB2008*) *Bioinformatics*, 24: 13. i223-i231 Jul.

Examples

```
data(interactome)  
interactome
```

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