Package ‘ccdata’

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Title Data for Combination Connectivity Mapping (ccmap) Package
Version 1.0.0
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Description This package contains microarray gene expression data generated from the Connectivity Map build 02. The data are used by the ccmap package to find drugs and drug combinations to mimic or reverse a gene expression signature.
Depends R (&gt;= 3.3)
License MIT + file LICENSE
LazyData false
biocViews ExperimentData, MicroarrayData, ExpressionData
RoxygenNote 5.0.1
NeedsCompilation no

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Description

Unbiased effect sizes values for all 1309 drugs in the Connectivity Map build 02.

Usage
data(cmap_es)
genes

Format
An object of class matrix with 13832 rows and 1309 columns.

Value
A matrix where columns correspond to drugs and rows to gene symbols.

cmap_var
Variance values for Connectivity Map build 02 drugs.

Description
Variances of unbiased effect sizes values for all 1309 drugs in the Connectivity Map build 02.

Usage
data(cmap_var)

Format
An object of class matrix with 13832 rows and 1309 columns.

Value
A matrix where columns correspond to drugs and rows to gene symbols.

genes
HGNC symbols used for NNet predictions.

Description
Order is as required for input and produced by output of net1/net2 predictions.

Usage
data(genes)

Format
An object of class character of length 11525.

Value
A character vector of 11525 HGNC symbols.
**net1**  
*Neural network model 1 for treatment combinations.*

**Description**
Contains weight matrices and bias vectors needed to make predictions.

**Usage**
```
#NA
```

**Format**
An object of class `list` of length 4.

**Value**
List with matrices W1/W2 and vectors b1/b2.

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**net2**  
*Neural network model 2 for treatment combinations.*

**Description**
Contains weight matrices and bias vectors needed to make predictions.

**Usage**
```
#NA
```

**Format**
An object of class `list` of length 4.

**Value**
List with matrices W1/W2 and vectors b1/b2.
Description

Model stacks predictions from net1 and net2 with effect size values from cmap.es and variance values from cmap.var.

Usage

#NA

Format

An object of class xgb.Booster of length 2.

Value

Object of class xgb.Booster
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