

# Package ‘gontr’

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**Title** Dataset for 'GOxploreR'

**Version** 1.1.0

**Author** Kalifa Manjang

**Maintainer** Kalifa Manjang <kalifamanjang1@gmail.com>

**Description** Contains the Gene ontology terms and skeleton for the reduced GO directed acyclic graph (DAG) for the organisms Rat and Mouse. The methods are explicitly discussed in the following article : Manjang et al (2020) <doi:10.1038/s41598-020-73326-3>.

**License** GPL-2

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 2.10)

**RoxygenNote** 7.1.1

**NeedsCompilation** no

**Repository** CRAN

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BPMouse

*BP GO-terms reduced GO-DAG for Mouse*

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**Description**

A data set with list containing information about the reduced GO-BP dag for Mouse

**Usage**

BPMouse

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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BPRat

*BP GO-terms reduced GO-DAG for Rat*

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**Description**

A data set with list containing information about the reduced GO-BP dag for Rat.

**Usage**

BPRat

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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CCMouse

*CC GO-terms reduced GO-DAG for Mouse*

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**Description**

A data set with list containing information about the reduced GO-BP DAG for Mouse.

**Usage**

CCMouse

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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CCRat

*CC GO-terms reduced GO-DAG for Rat*

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**Description**

A data set with list containing information about the reduced GO-BP DAG for Rat.

**Usage**

CCRat

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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MFMouse

*MF GO-terms reduced GO-DAG for Mouse*

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**Description**

A data set with list containing information about the reduced GO-BP DAG for Mouse.

**Usage**

MFMouse

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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MFRat

*MF GO-terms reduced GO-DAG for Rat*

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**Description**

A data set with list containing information about the reduced GO-BP DAG for Rat

**Usage**

MFRat

**Format**

A list with 3 objects:

**v** GO-terms in the respective nodes.

**dat.d** Data frame object that shows how the respective nodes are connected.

**df** Sketelon of the reduced GO-dags.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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Mouse	<i>BP GO-terms as an Edgelist for Mouse</i>
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**Description**

A data set containing BP, MF and CC GO-terms as an edgelist for Mouse.

**Usage**

Mouse

**Format**

A list containing 3 objects:

**BPlist** BP GO-terms edgelist.

**MFlist** MF GO-terms edgelist.

**CClist** CC GO-terms edgelist.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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MouseAll	<i>All GO-terms for Mouse</i>
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**Description**

A data set with all the GO-terms for Mouse.

**Usage**

MouseAll

**Format**

A data frame with 337505 rows and 2 variables:

**entrezgene\_id** The entrezgene\_id.

**go\_id** The respective GO-terms.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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Rat	<i>BP GO-terms as an Edgelist for Rat</i>
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**Description**

A data set containing BP, MF and CC GO-terms as an edgelist for Rat

**Usage**

Rat

**Format**

A list containing 3 objects:

**BPlist** BP GO-terms edgelist.

**MFlist** MF GO-terms edgelist.

**CCList** CC GO-terms edgelist.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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RatAll	<i>All GO-terms for Rat</i>
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**Description**

A data set with all the GO-terms for Rat.

**Usage**

RatAll

**Format**

A data frame with 262619 rows and 2 variables:

**entrezgene\_id** The entrezgene\_id.

**go\_id** The respective GO-terms.

**Source**

<<https://www.nature.com/articles/s41598-020-73326-3>>

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