Package 'CCl4'

July 10, 2025

Title Carbon Tetrachloride (CCl4) treated hepatocytes

Version 1.47.0

Author Audrey Kauffmann, Wolfgang Huber

Description NChannelSet for rat hepatocytes treated with Carbon Tetrachloride (CCl4) data from LGC company.

Maintainer Audrey Kauffmann <audrey@ebi.ac.uk>

License Artistic-2.0

Depends R (>= 2.6.0), Biobase (>= 2.5.5), limma

biocViews ExperimentData, Genome, Rattus_norvegicus_Data, MicroarrayData

git_url https://git.bioconductor.org/packages/CCl4

git_branch devel

git_last_commit 6543b71

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-07-10

Contents

CCl4	*Carbon Tetrachloride (CCl4) treated hepatocytes*

Description

These datasets contain raw intensities from Agilent *Rat Whole Genome* microarrays. Total RNA from rat hepatocytes treated by Carbon Tetrachloride or DMSO was extracted. Purifed RNA from Carbon Tetrachloride treated cells was degraded by ribonuclease A in order to study the effect of RNA quality on the expression data. From an initial Agilent RIN (RNA Integrity Number) value of 9.7, degraded RNA RIN values of 5.0 and 2.5 were achieved.

Usage

```
    data("CCl4")
    data("CCl4_RGList")
```

Format

CCl4 is a `NChannelSet` with 44290 probes and 18 arrays. `CCl4_RGList` is an `RGList` with the same data.

Source

Carole Foy, Holger Laux, Timothy Wilkes from LGC company in London, UK.

Examples

```
data("CCl4")
show(CCl4)

data("CCl4_RGList")
show(CCl4_RGList)
```

Index