

# Package ‘CCI4’

June 27, 2024

**Title** Carbon Tetrachloride (CCI4) treated hepatocytes

**Version** 1.43.0

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**Description** NChannelSet for rat hepatocytes treated with Carbon Tetrachloride (CCI4) data from LGC company.

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**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/CCI4>

**git\_branch** devel

**git\_last\_commit** 3ef4451

**git\_last\_commit\_date** 2024-04-30

**Repository** Bioconductor 3.20

**Date/Publication** 2024-06-27

## Contents

CCI4 . . . . .	1
<b>Index</b>	<b>3</b>

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CCI4	<i>Carbon Tetrachloride (CCI4) treated hepatocytes</i>
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## 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. Purified 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("CC14")  
data("CC14_RGList")
```

**Format**

CC14 is a [NChannelSet](#) with 44290 probes and 18 arrays. CC14\_RGList is an [RGList](#) with the same data.

**Source**

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

**Examples**

```
data("CC14")  
show(CC14)  
  
data("CC14_RGList")  
show(CC14_RGList)
```

# Index

\* **datasets**

CC14, [1](#)

CC14, [1](#)

CC14\_RGList (CC14), [1](#)

NChannelSet, [2](#)

RGList, [2](#)