

# QualityMetrics assessment of NChannelSet

Audrey Kauffmann, Wolfgang Huber

July 18, 2007

## Load the required packages

```
> library("CCL4")  
> library("arrayQualityMetrics")
```

## Load the data

The *CCL4* package contains an NChannelSet for rat hepatocytes treated with Carbon Tetrachloride (CCl4) data from LGC company.

```
> data("CCL4")
```

## Build an quality metrics report from the NChannelSet

```
> outdir = tempdir()  
> outpdf = file.path(outdir, "CCL4")  
> arrayQualityMetrics(expressionset = CCL4, outfile = outpdf, log.transformed = TRUE)
```

The output is written to

```
> outdir
```

```
[1] "/tmp/RtmpdEgZb3"
```

```

> sessionInfo()

R version 2.6.0 Under development (unstable) (2007-07-11 r42187)
x86_64-unknown-linux-gnu

locale:
LC_CTYPE=en_US.ISO-8859-1;LC_NUMERIC=C;LC_TIME=en_US.ISO-8859-1;LC_COLLATE=en_US.ISO-8859-1;LC_MONETARY=en_U

attached base packages:
[1] splines    tools      stats      graphics  grDevices  utils      datasets
[8] methods    base

other attached packages:
[1] arrayQualityMetrics_1.0.3 affyPLM_1.13.0
[3] gcrma_2.9.1               matchprobes_1.9.2
[5] affydata_1.11.2           RColorBrewer_0.2-3
[7] vsn_2.3.1                 affy_1.15.1
[9] affyio_1.5.1              genefilter_1.15.6
[11] survival_2.32             geneplotter_1.15.2
[13] lattice_0.16-1            annotate_1.15.0
[15] CC14_1.0.0                limma_2.11.1
[17] Biobase_1.15.13

loaded via a namespace (and not attached):
[1] AnnotationDbi_0.0.68 DBI_0.2-3          grid_2.6.0
[4] KernSmooth_2.22-20   RSQLite_0.5-4

```

Table 1: The output of `sessionInfo` on the build system after running this vignette.