

# Quality Control of Expression Data

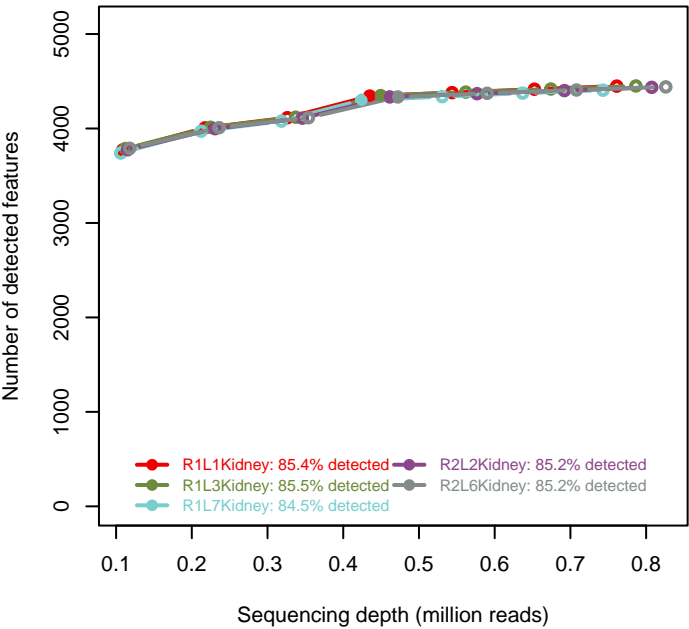
Generated by NOISeq on 28 fev 2023, 10:05:30

## Content

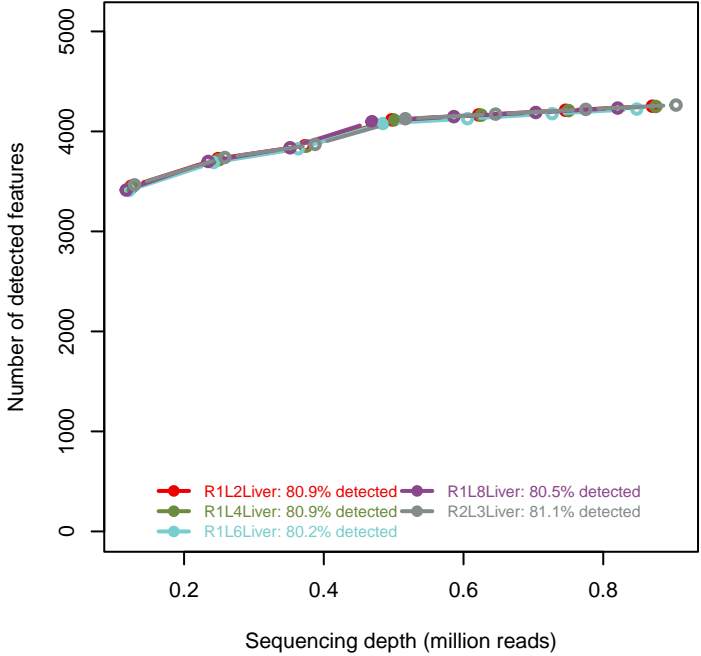
<i>Plot</i>	<i>Description</i>
<b>Biotype detection</b>	Plot not available. Biotypes information was not provided.
<b>Biotype expression</b>	Plot not available. Biotypes information was not provided.
<b>Saturation</b>	Number of detected genes (counts > 0) per sample across different sequencing depths
<b>Expression boxplot</b>	Distribution of gene counts per million (all biotypes) in each sample/condition
<b>Expression barplot</b>	Percentage of genes with >0, >1, >2, >5 or >10 counts per million in each sample/condition.
<b>Length bias</b>	Plot not available. Gene length was not provided.
<b>GC content bias</b>	Plot not available. Gene GC content was not provided.
<b>RNA composition bias</b>	Density plots of log fold changes (M) between pairs of samples. Confidence intervals for the median of M values.
<b>Exploratory PCA</b>	Principal Component Analysis score plots for PC1 vs PC2, and PC1 vs PC3.

# Sequencing depth & Expression quantification

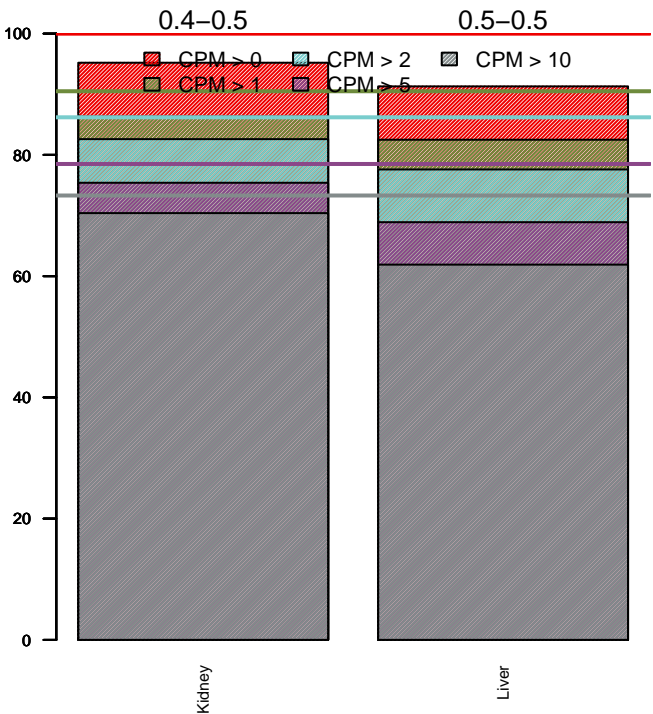
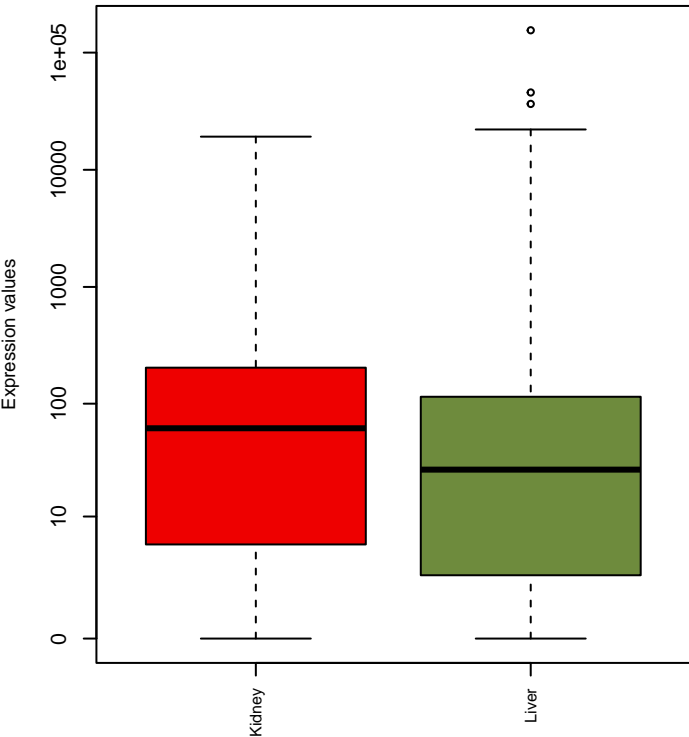
GLOBAL (5088)



GLOBAL (5088)



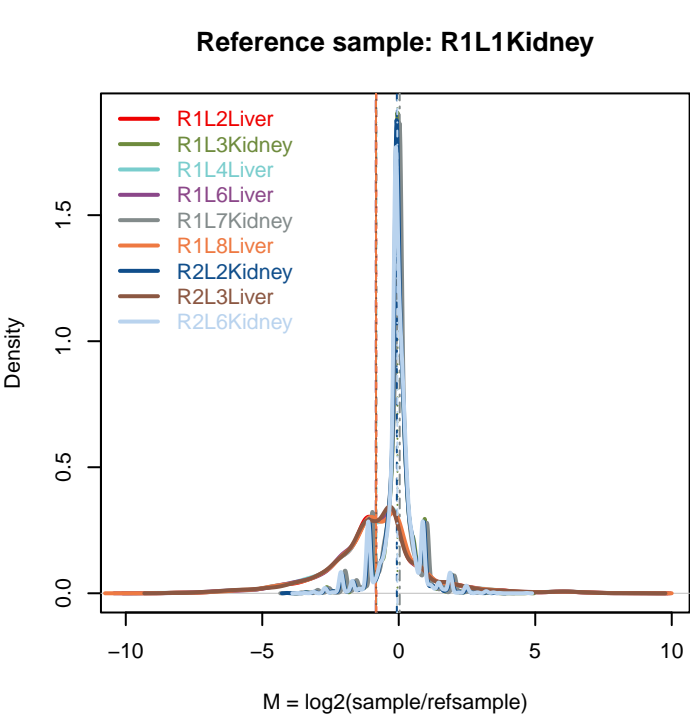
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# Sequencing bias detection

## Diagnostic plot for differences in RNA composition

FAILED. There is a pair of samples with significantly different RNA composition  
Normalization for correcting this bias is required.



### Confidence intervals for median of M values

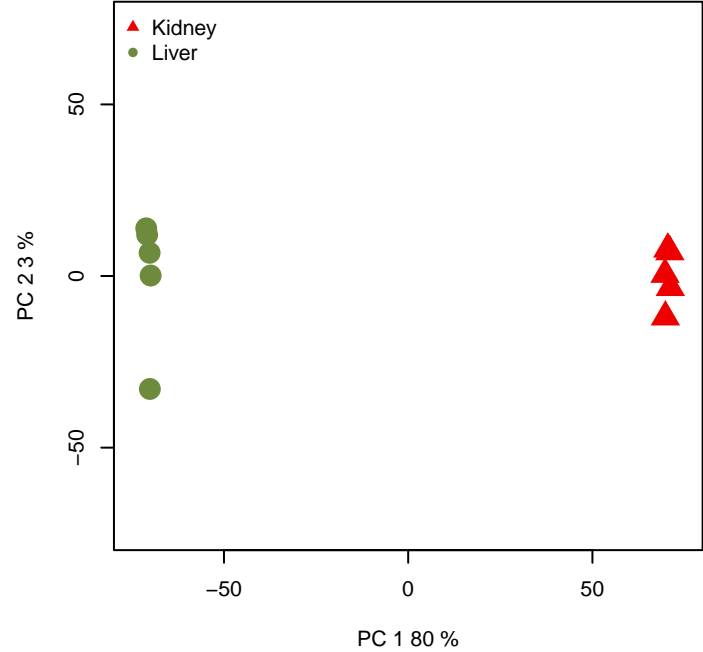
Sample	0.28%	99.72%	Diagnostic Test
R1L2Liver	-0.8995	-0.7703	FAILED
R1L3Kidney	-0.0472	-0.0472	FAILED
R1L4Liver	-0.8796	-0.7579	FAILED
R1L6Liver	-0.9166	-0.7604	FAILED
R1L7Kidney	0.0348	0.0348	FAILED
R1L8Liver	-0.9033	-0.7581	FAILED
R2L2Kidney	-0.085	-0.0459	FAILED
R2L3Liver	-0.8783	-0.7473	FAILED
R2L6Kidney	-0.0699	-0.038	FAILED

# Exploratory PCA

Use this plot to see if samples are clustered according to the experimental design.

Use ARSyNseq function to correct potential batch effects.

Scores



Scores

