

Quality Control of Expression Data

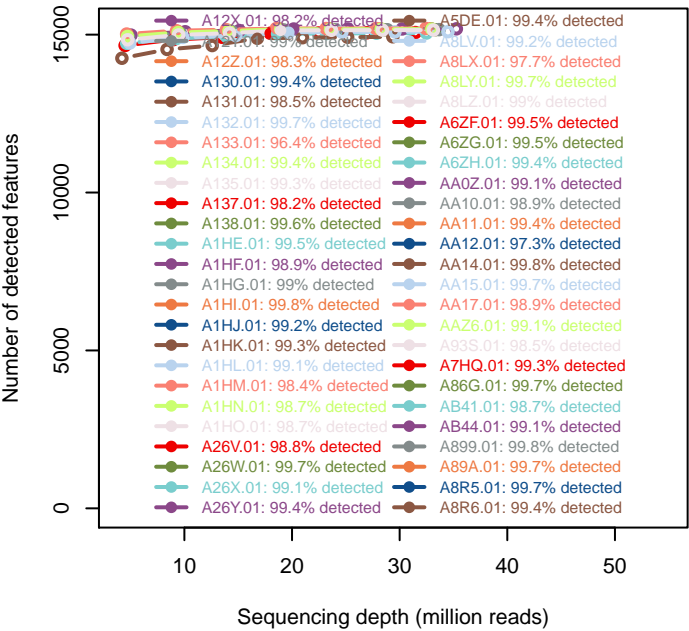
Generated by NOISeq on 28 Jan 2016, 13:50:11

Content

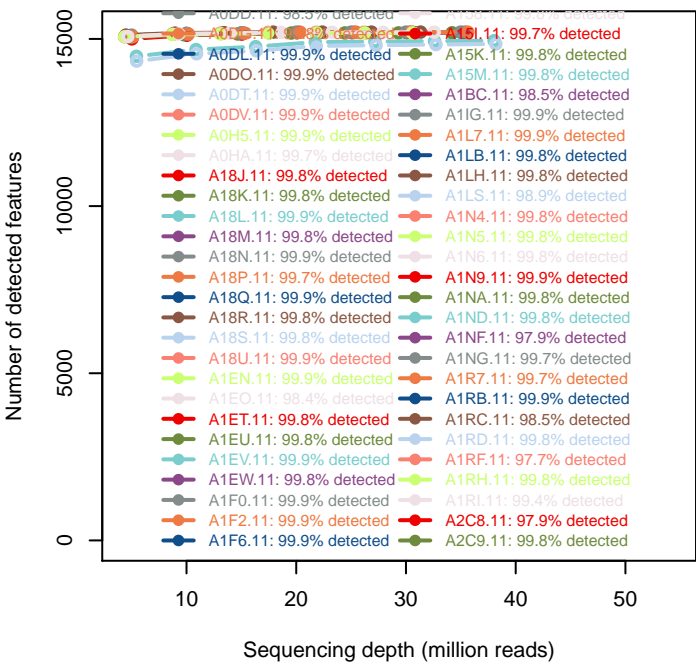
<i>Plot</i>	<i>Description</i>
Biotype detection	Plot not available. Biotypes information was not provided.
Biotype expression	Plot not available. Biotypes information was not provided.
Saturation	Number of detected genes (counts > 0) per sample across different sequencing depths
Expression boxplot	Distribution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

Sequencing depth & Expression quantification

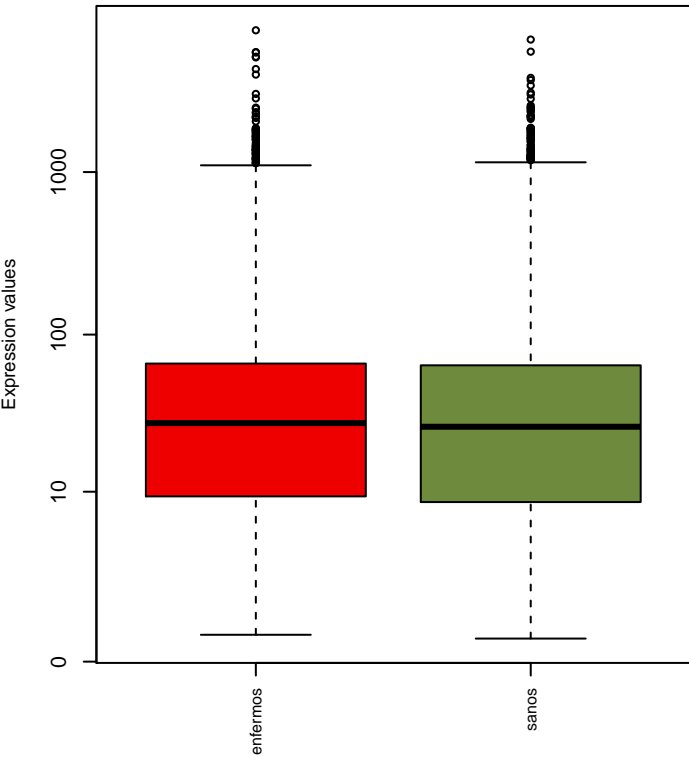
GLOBAL (15219)



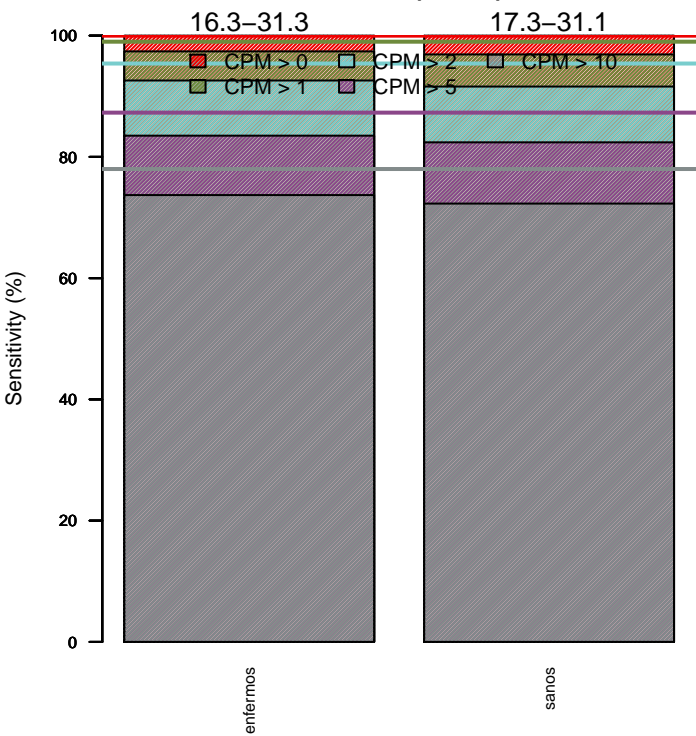
GLOBAL (15219)



GLOBAL (15219)



GLOBAL (15219)



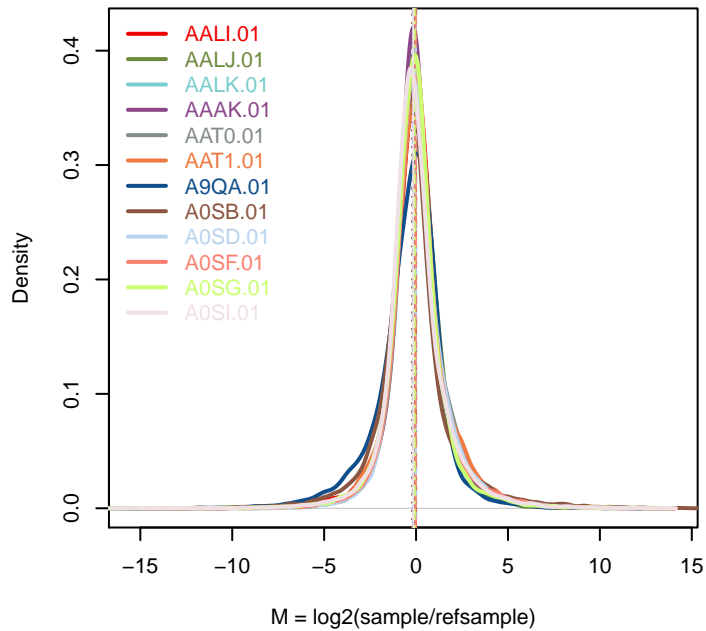
Sequencing bias detection

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.

Reference sample: AAAU.01



Confidence intervals for median of M values

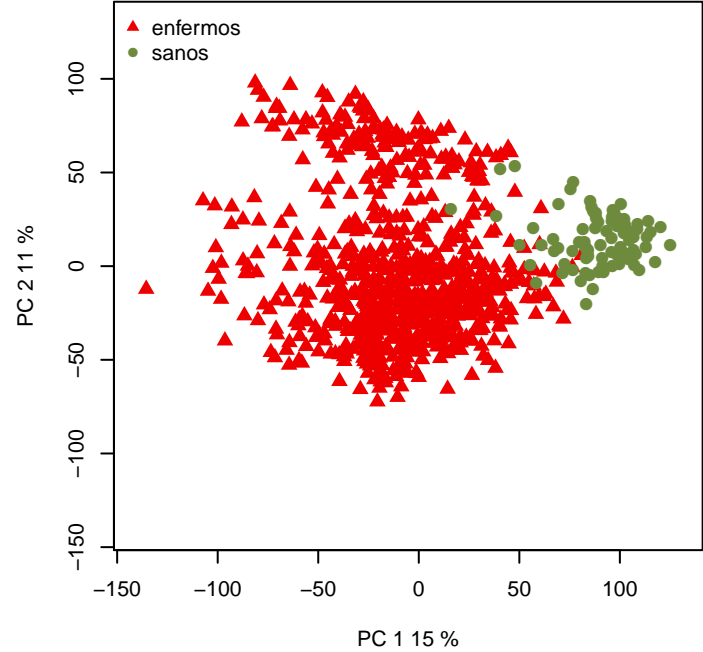
Sample	0%	100%	Diagnostic Test
AALI.01	-0.0382	0.0235	PASSED
AALJ.01	-0.061	-0.0023	FAILED
AALK.01	-0.1255	-0.0528	FAILED
AAK.01	-0.105	-0.0408	FAILED
AAT0.01	-0.0217	0.0415	PASSED
AAT1.01	-0.0545	0.011	PASSED
A9QA.01	-0.2185	-0.129	FAILED
A0SB.01	-0.2614	-0.189	FAILED
A0SD.01	-0.0382	0.0323	PASSED
A0SF.01	-0.0492	0.0215	PASSED
A0SG.01	-0.1133	-0.0433	FAILED
A0SI.01	-0.1917	-0.1256	FAILED
A0SN.01	-0.1775	-0.108	FAILED
A0SQ.01	-0.2449	-0.184	FAILED
A04N.01	-0.053	0.0161	PASSED
A04U.01	-0.3812	-0.2903	FAILED
A04W.01	-0.4188	-0.3201	FAILED
A0CK.01	0.0213	0.0844	FAILED
A0CL.01	0.0031	0.0659	FAILED
A0CO.01	-0.0307	0.0333	PASSED
A0CR.01	-0.2709	-0.1735	FAILED
A0CS.01	-0.2726	-0.2058	FAILED
A0CV.01	-0.056	0.0116	PASSED
A0CW.01	-0.1345	-0.0545	FAILED
A0D3.01	-0.1182	-0.0435	FAILED
A0EP.01	-0.2071	-0.1409	FAILED
A0ES.01	-0.0505	0.0235	PASSED
A0EW.01	-0.0286	0.0435	PASSED

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

