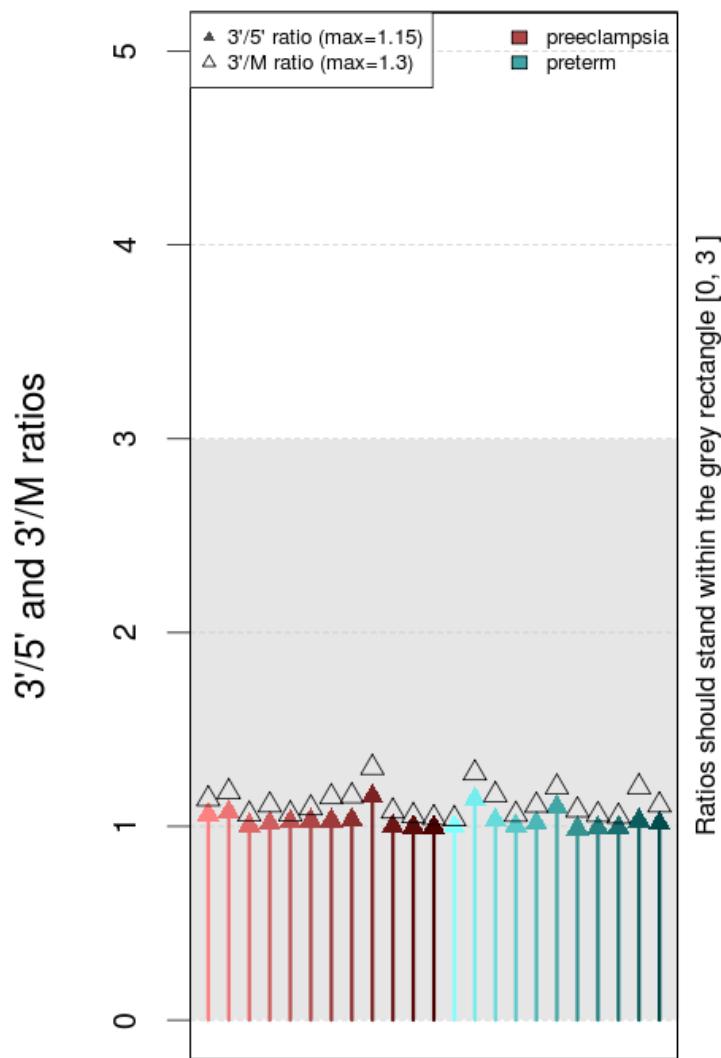


Array names and grouping

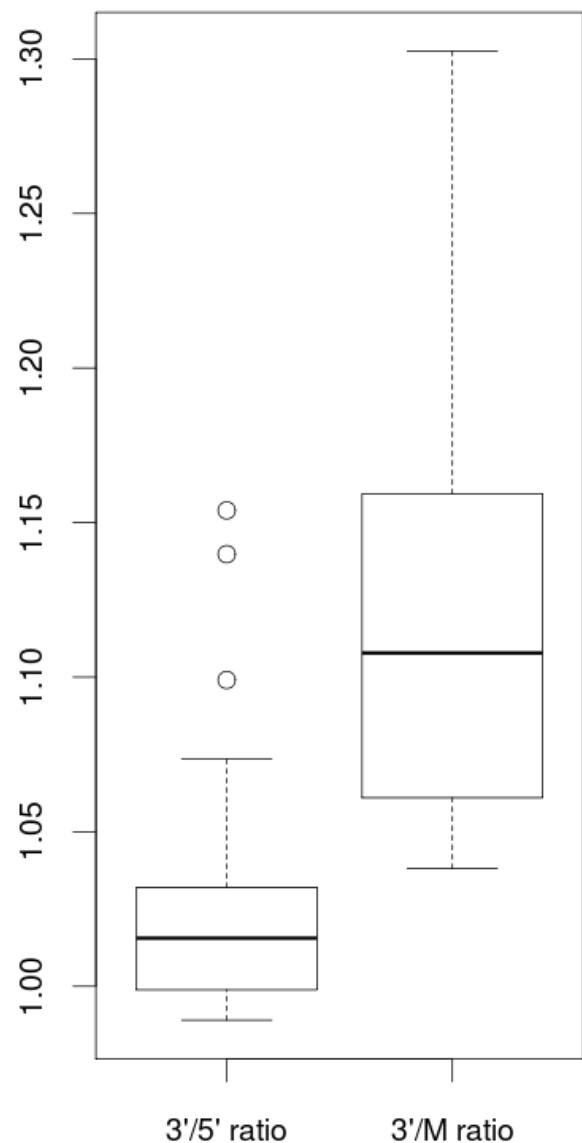
ArrayDataFile	SourceName	FactorValue
GSM367781.CEL	Array1	preterm
GSM367782.CEL	Array2	preterm
GSM367783.CEL	Array3	preterm
GSM367784.CEL	Array4	preterm
GSM367785.CEL	Array5	preterm
GSM367786.CEL	Array6	preterm
GSM367787.CEL	Array7	preterm
GSM367788.CEL	Array8	preterm
GSM367789.CEL	Array9	preterm
GSM367790.CEL	Array10	preterm
GSM367791.CEL	Array11	preterm
GSM367792.CEL	Array12	preeclampsia
GSM367793.CEL	Array13	preeclampsia
GSM367794.CEL	Array14	preeclampsia
GSM367795.CEL	Array15	preeclampsia
GSM367796.CEL	Array16	preeclampsia
GSM367797.CEL	Array17	preeclampsia
GSM367798.CEL	Array18	preeclampsia
GSM367799.CEL	Array19	preeclampsia
GSM367800.CEL	Array20	preeclampsia
GSM367801.CEL	Array21	preeclampsia
GSM367802.CEL	Array22	preeclampsia
GSM367803.CEL	Array23	preeclampsia

Quality Control & Pre-processing Evaluation
of
GSE14722_0
REPORT

RNA degradation of beta-actin



Boxplot of beta-actin ratios



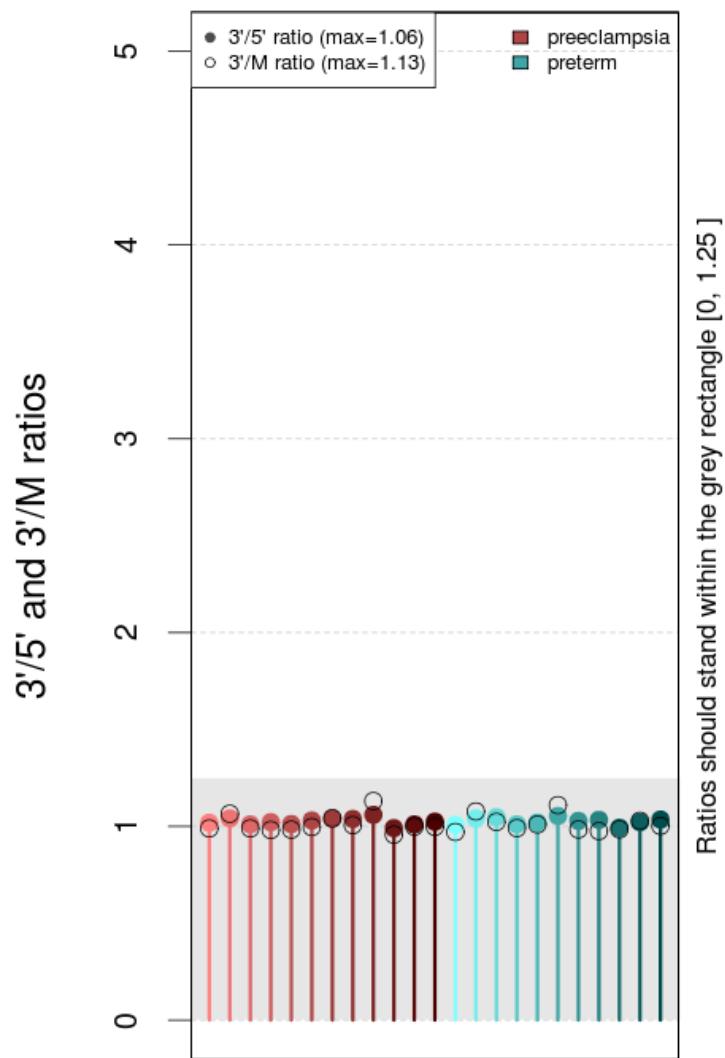
beta-actin QC: OK (all $3'/5'$ ratios < 3)

Summary of raw data quality indicators

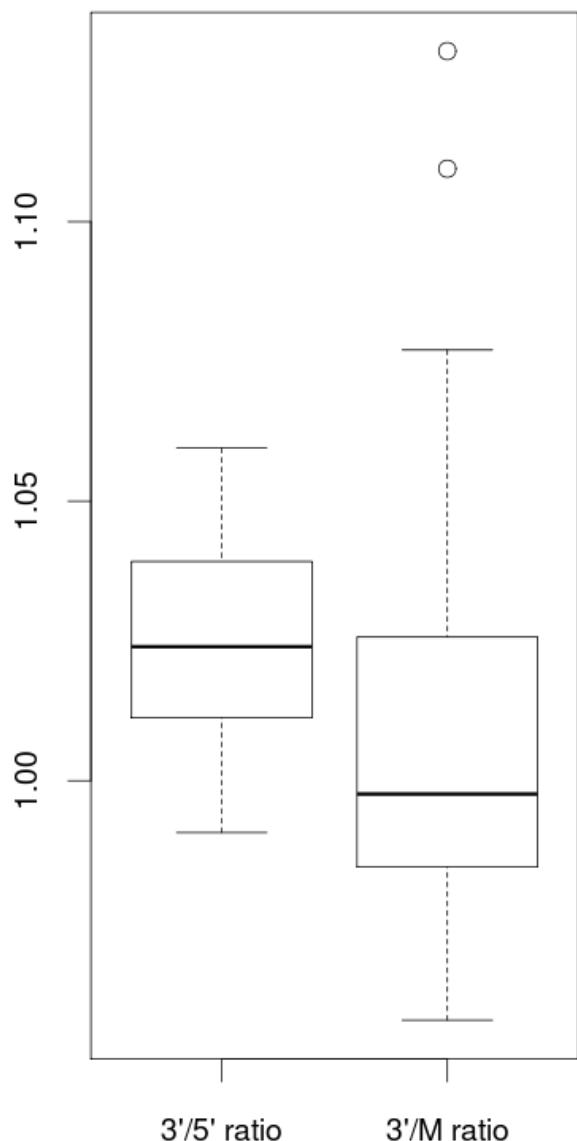
blue = "within" / red = "out of" recommended cut-off

	3'5' beta-actin (cutoff=3)	3'5' GAPDH (cutoff=1.25)	Hybridization BioB<BioC<BioD<CreX	Hybridization BioB=Present	Percent Present spread<=10%	Background spread<=20%	Log Scale Factor spread<=3
Array12	1.06	1.02	T	P	43 %	52	-0.41
Array13	1.07	1.04	T	P	41 %	31	1.94
Array14	1	1.01	T	P	42 %	61	-0.72
Array15	1.02	1.02	T	P	47 %	59	-0.63
Array16	1.02	1.01	T	P	45 %	56	-0.71
Array17	1.03	1.03	T	P	47 %	49	-0.63
Array18	1.03	1.04	T	P	50 %	40	-0.21
Array19	1.03	1.04	T	P	44 %	47	-0.29
Array20	1.15	1.06	T	P	28 %	35	3
Array21	1	0.99	T	P	37 %	46	0.17
Array22	1	1.01	T	P	41 %	60	-0.5
Array23	1	1.02	T	P	37 %	60	-0.13
Array1	1	1.01	T	P	43 %	61	-0.77
Array2	1.14	1.04	T	P	36 %	33	2.38
Array3	1.03	1.05	T	P	50 %	47	-1.05
Array4	1	1.01	T	P	44 %	66	-0.98
Array5	1.02	1.02	T	P	49 %	42	-0.02
Array6	1.1	1.05	T	P	36 %	32	2.63
Array7	0.99	1.03	T	P	39 %	58	0.13
Array8	0.99	1.03	T	P	39 %	54	-0.08
Array9	0.99	0.99	T	P	38 %	56	-0.54
Array10	1.03	1.02	T	P	41 %	51	-0.34
Array11	1.02	1.03	T	P	48 %	48	-0.81

RNA degradation of GAPDH

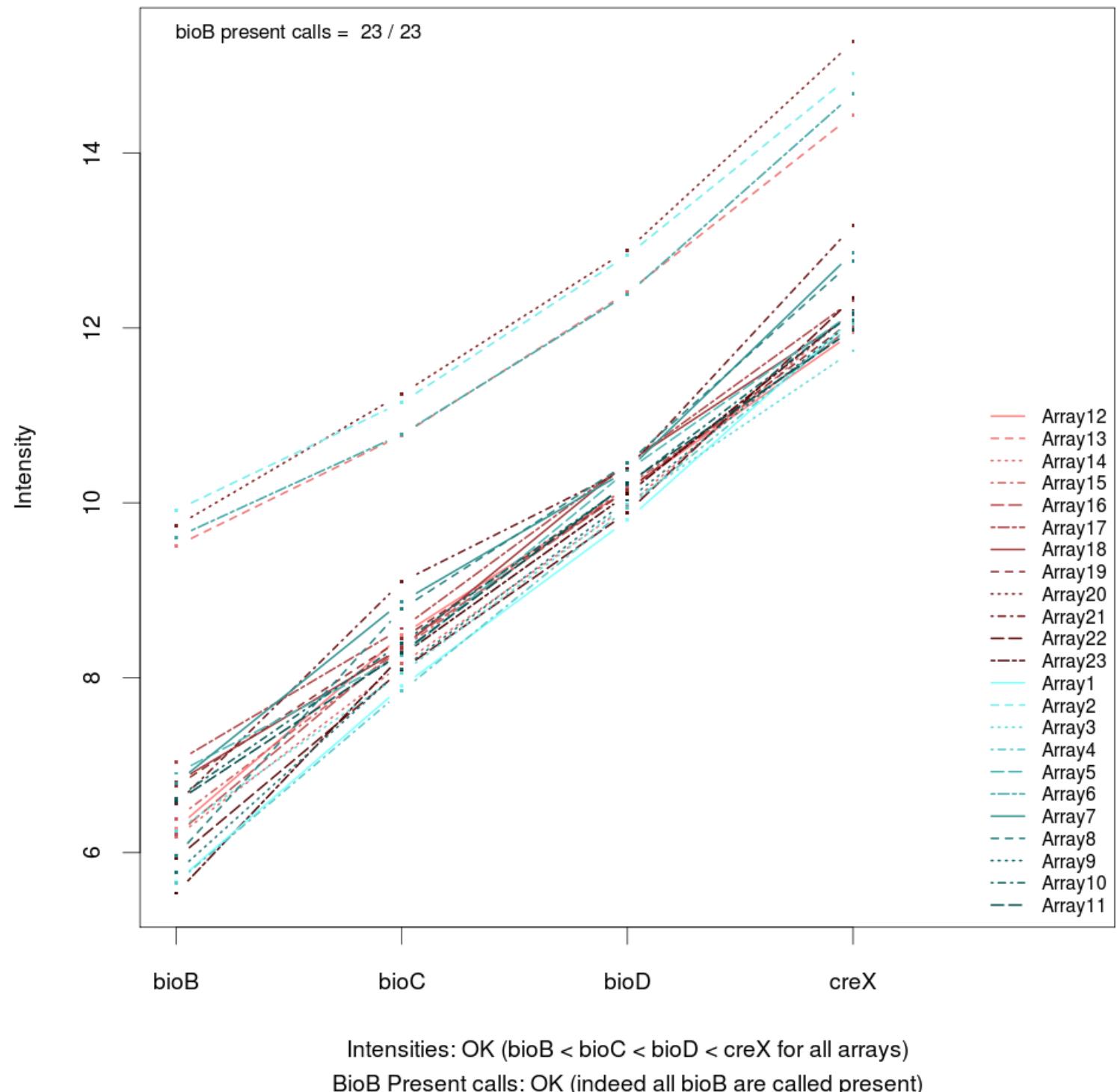


Boxplot of GAPDH ratios

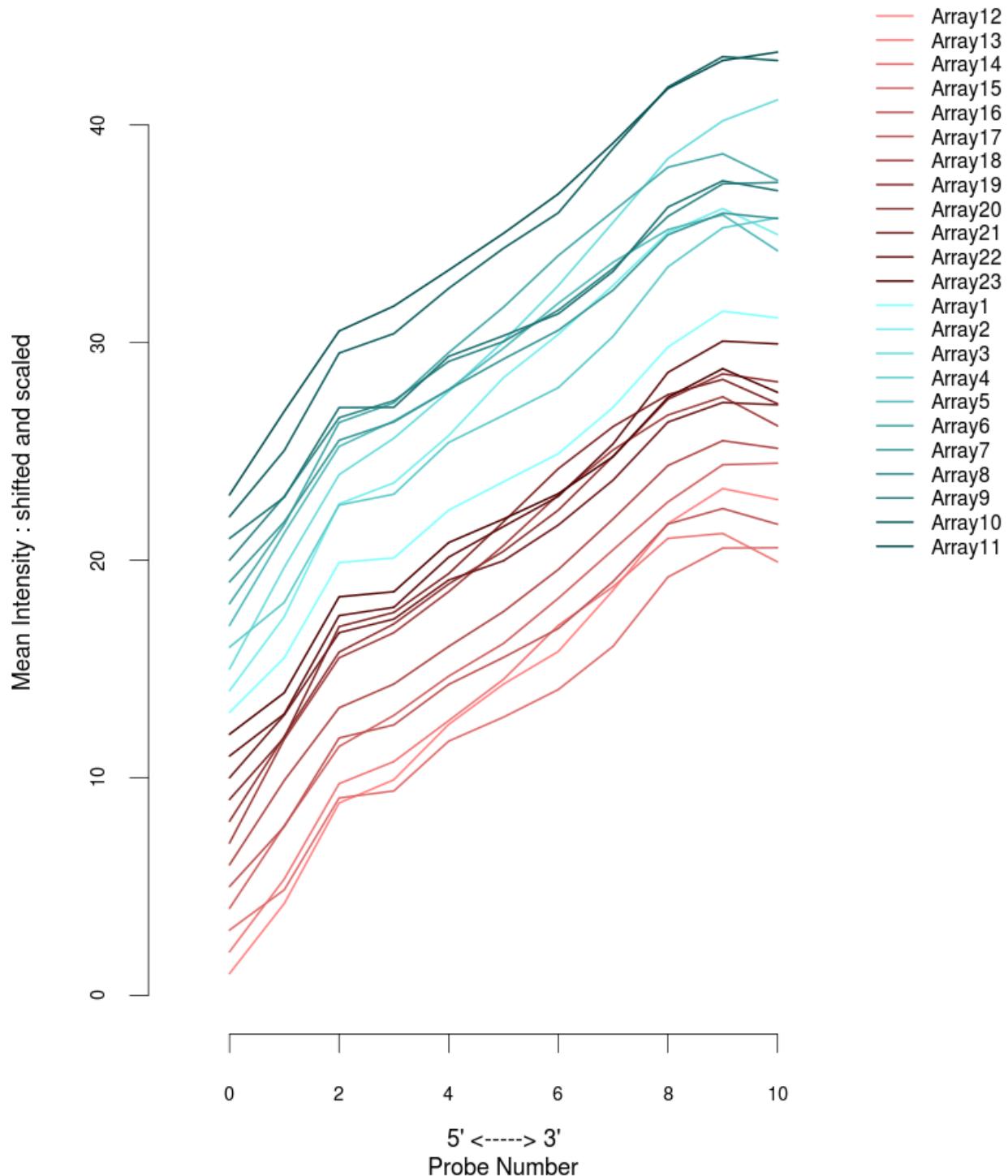


GAPDH QC: OK (all $3'/5'$ ratios < 1.25)

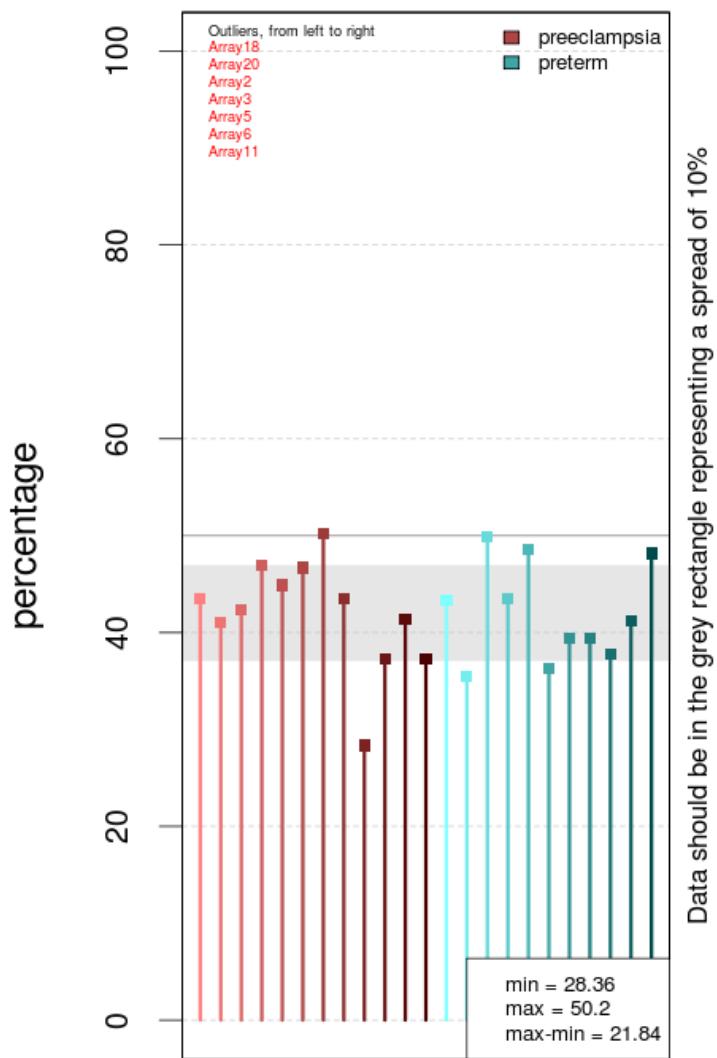
Spike-in Hybridization controls intensities and calls



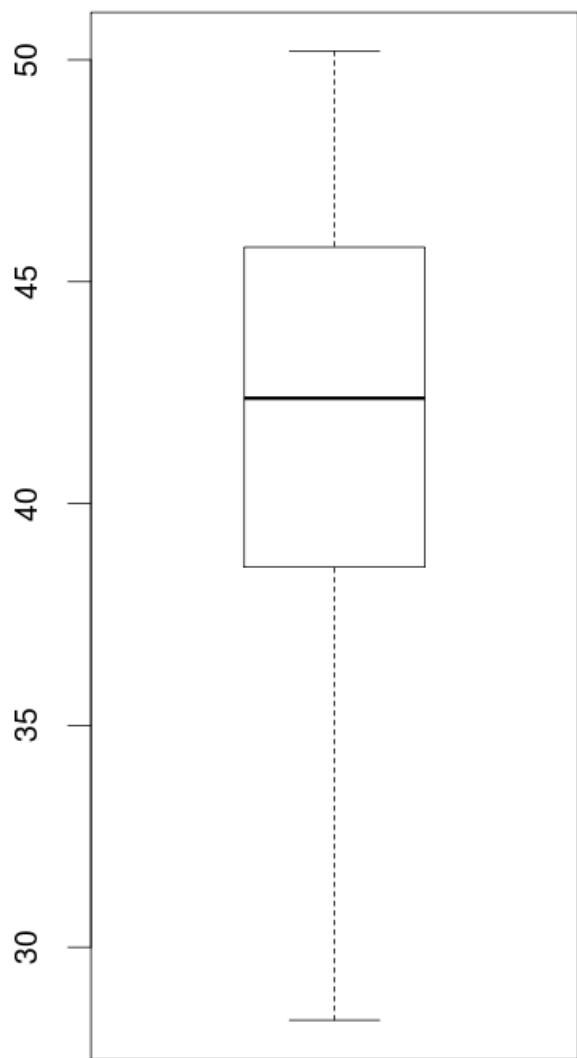
RNA degradation plot



Plot of percent present

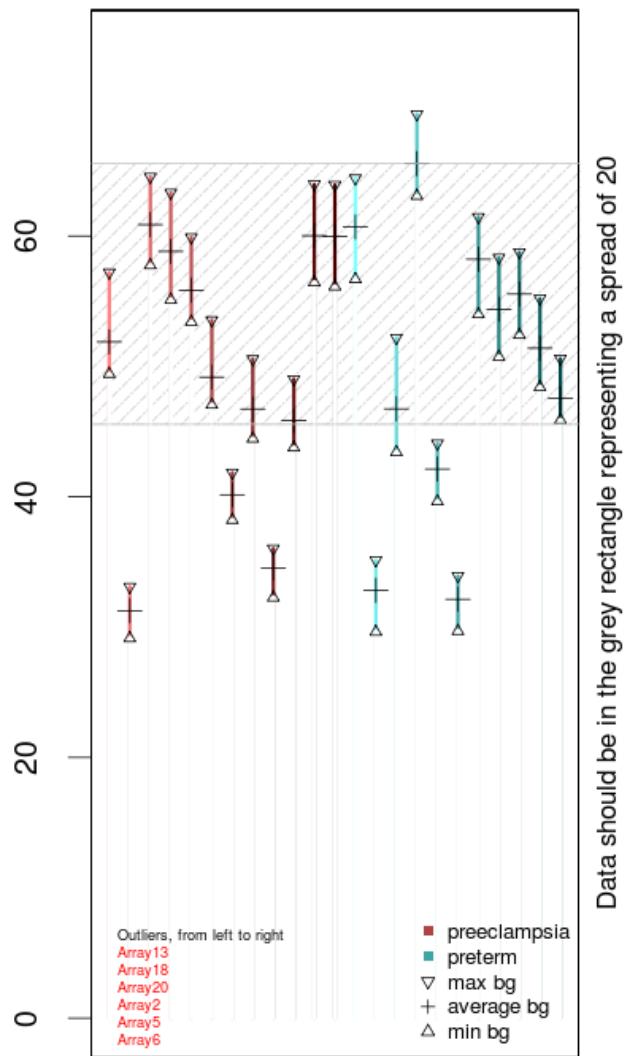


Boxplot of percent present



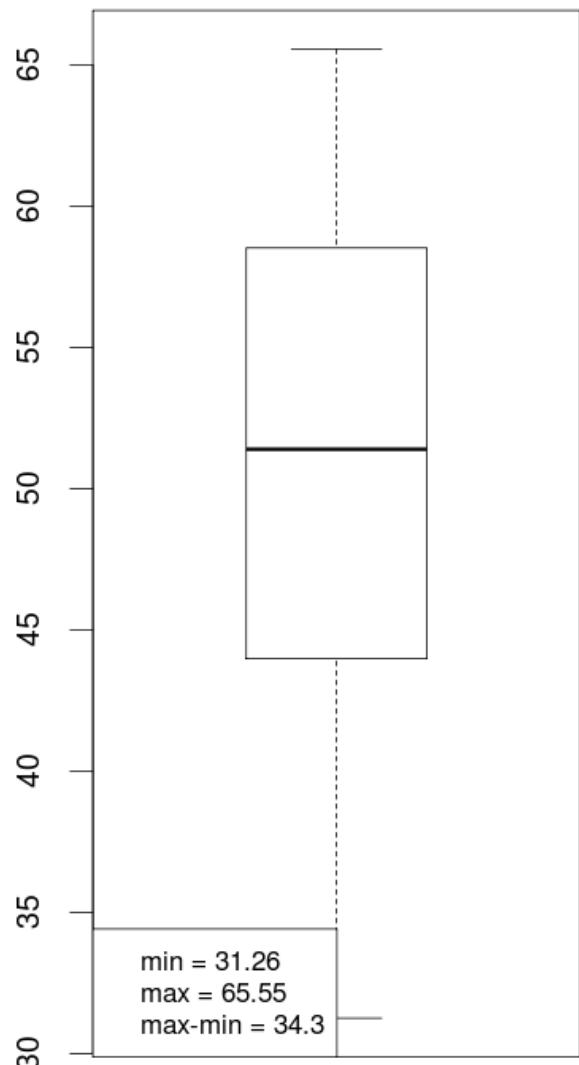
Plot of background intensity

background intensity



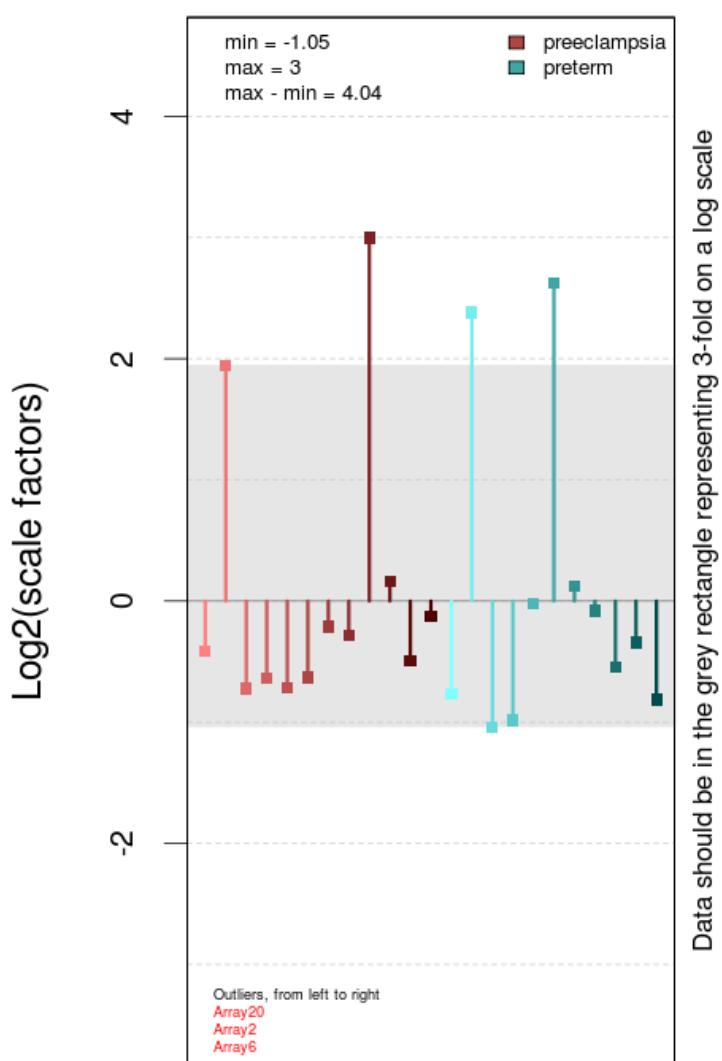
Data should be in the grey rectangle representing a spread of 20

Average background intensity

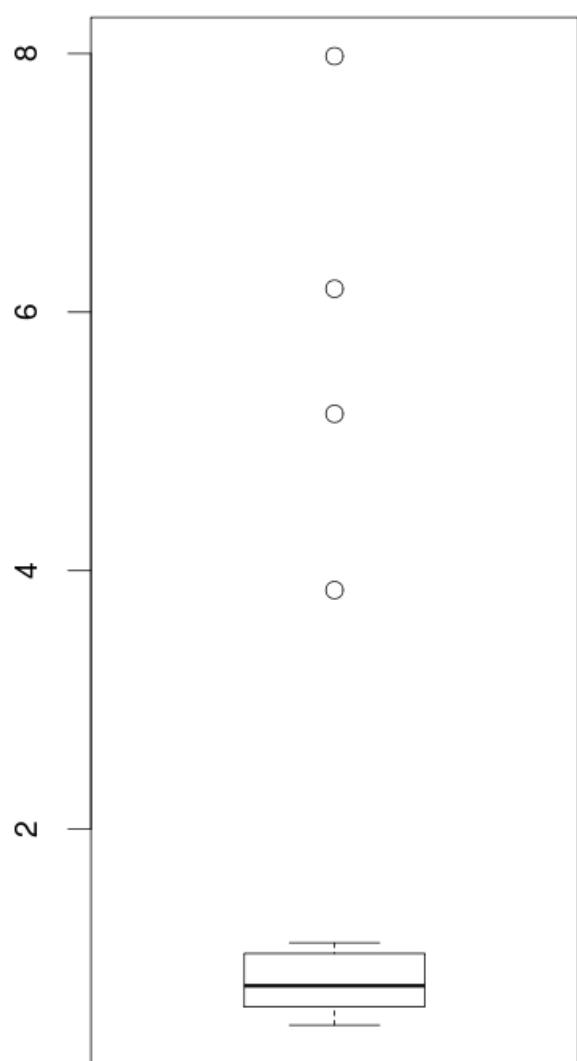


Background QC: not OK (spread > 20)

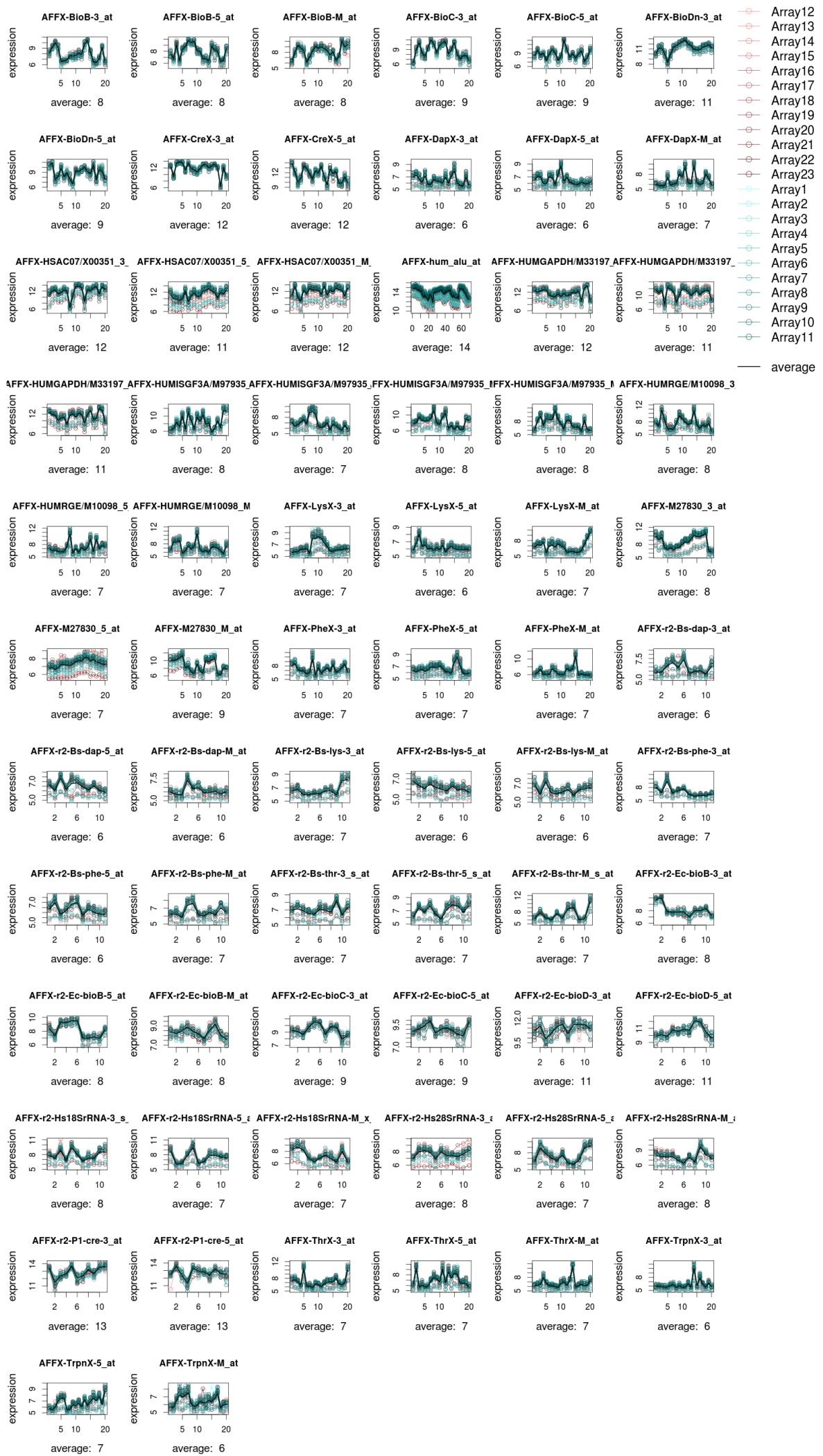
Plot of Log scale factors



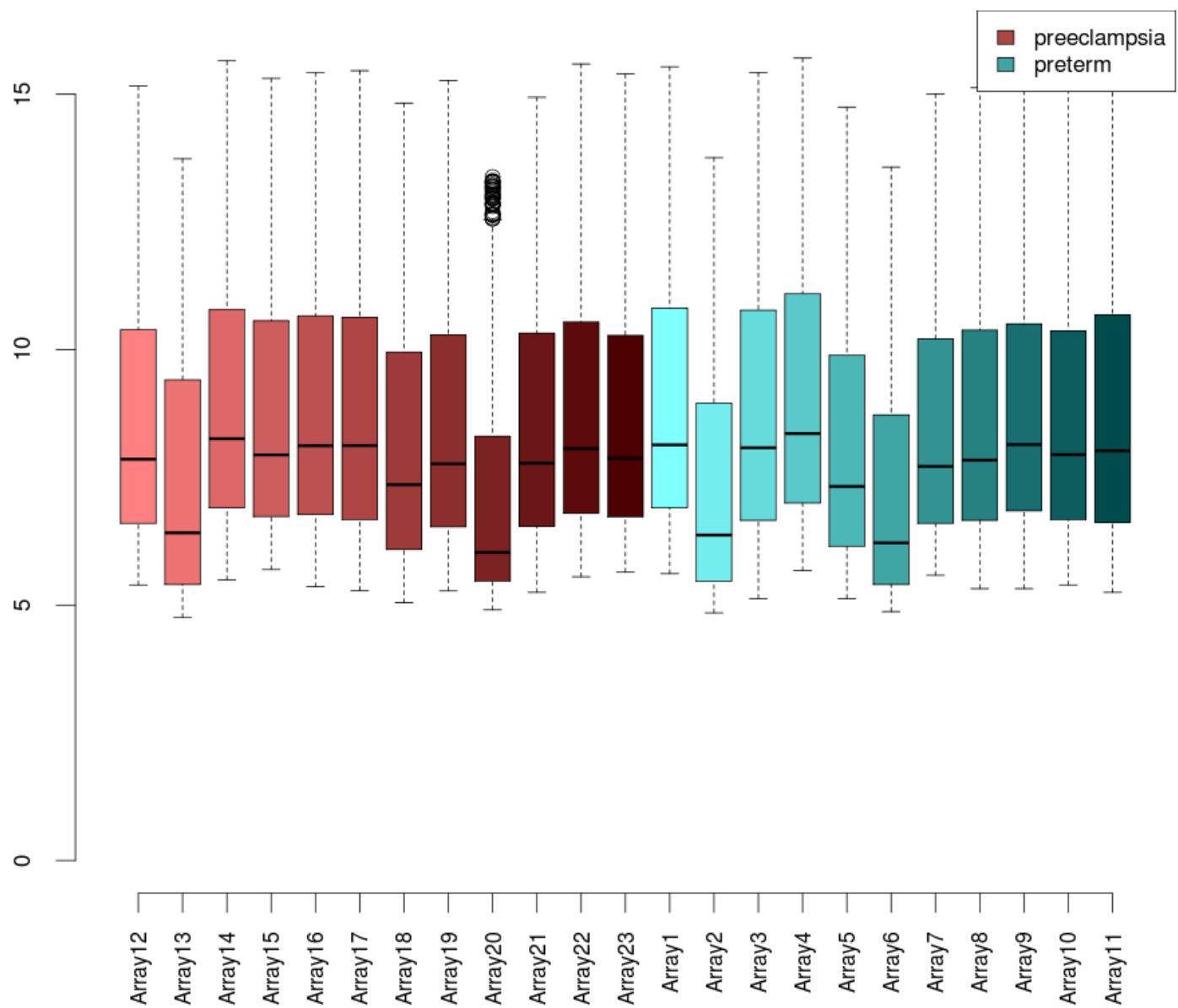
Boxplot of scale factors (natural scale)



affx control profiles

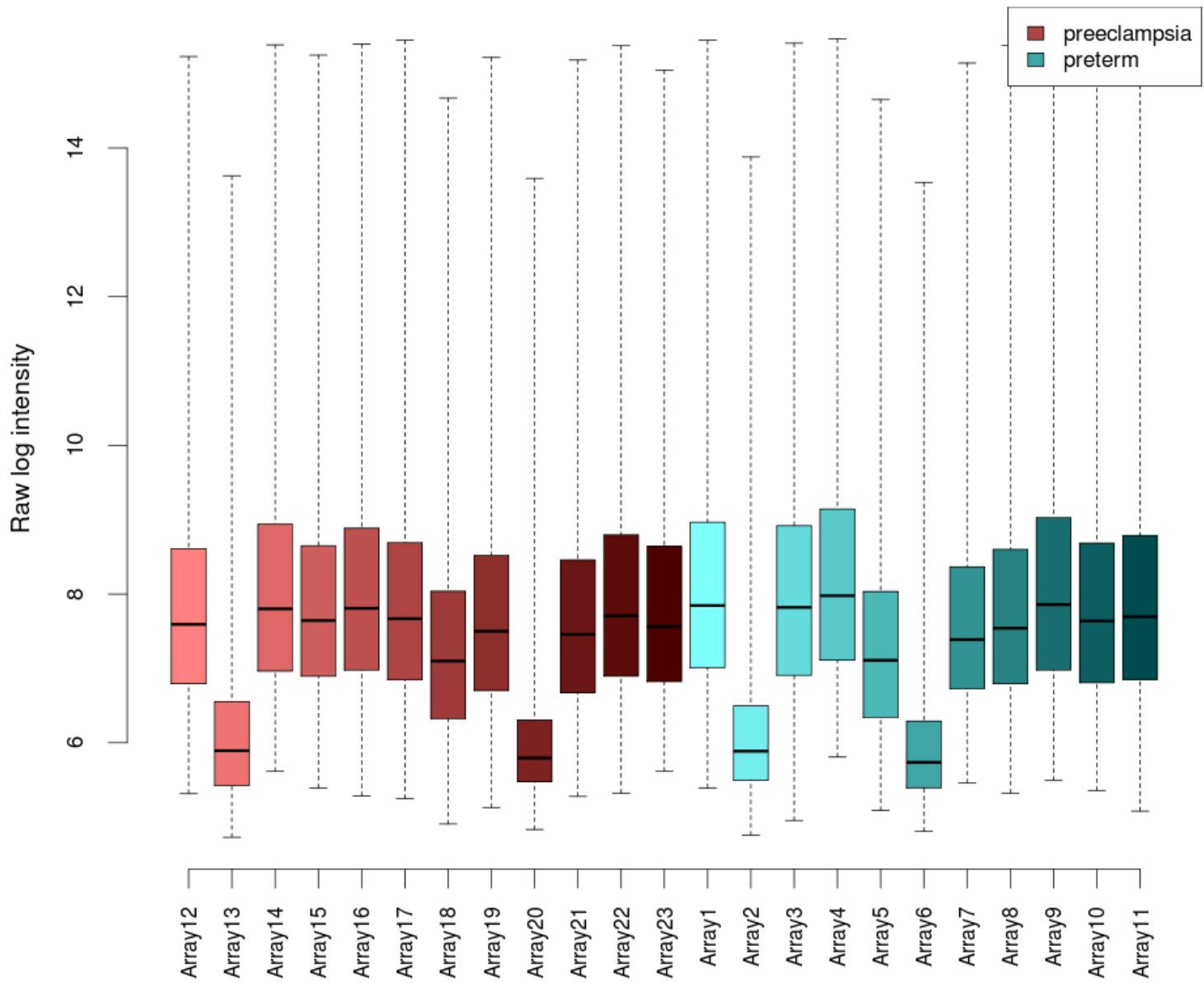


affx controls



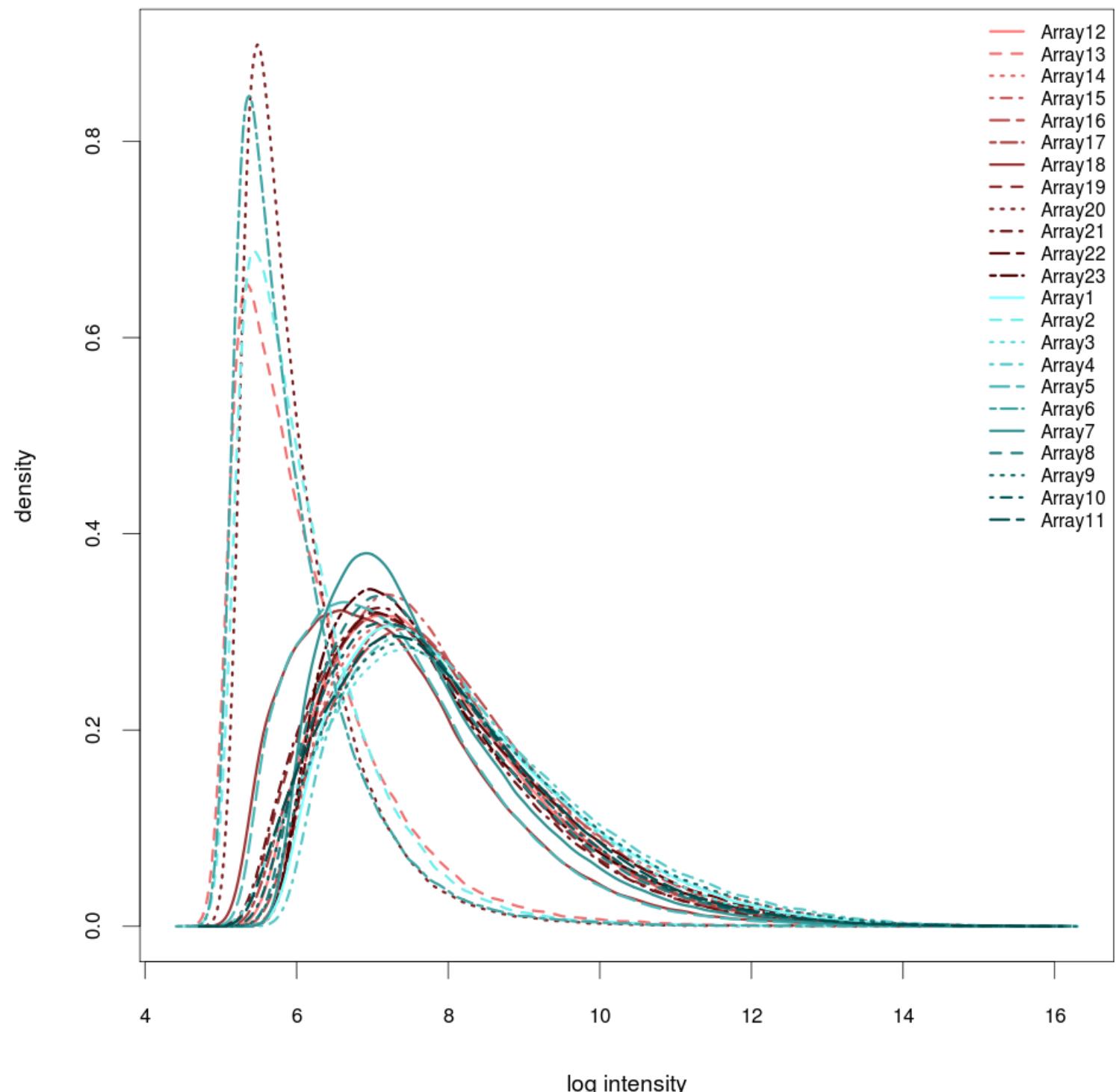
Boxplot of raw intensities

Distributions should be comparable between arrays



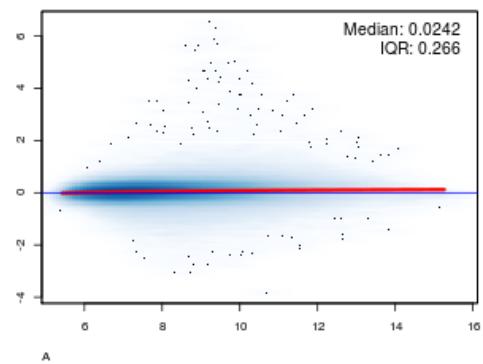
Density histogram of raw intensities

Curves should be comparable between arrays

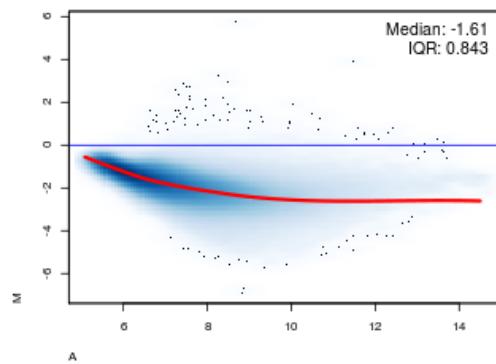


MA plots of raw data 1 / 2

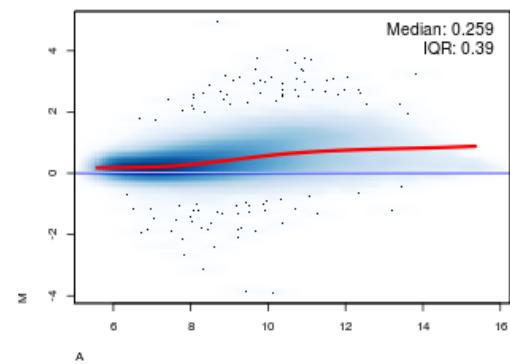
Array12 vs pseudo-median reference chip



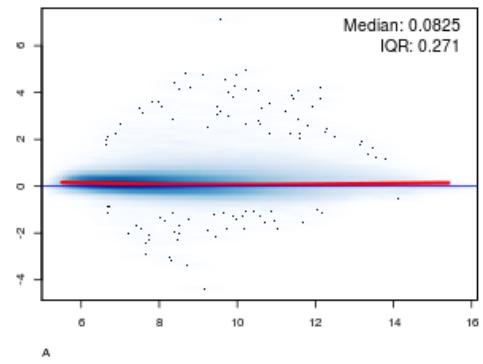
Array13 vs pseudo-median reference chip



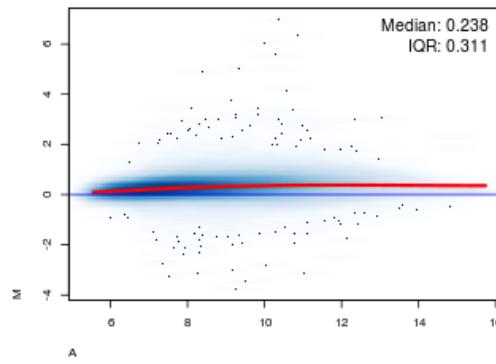
Array14 vs pseudo-median reference chip



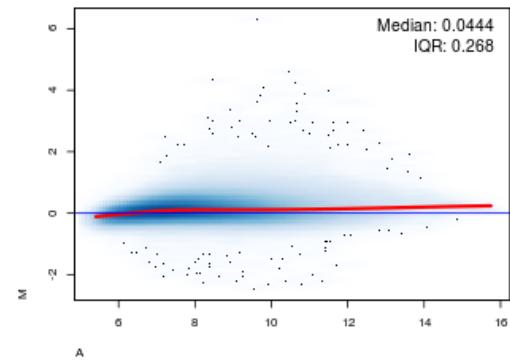
Array15 vs pseudo-median reference chip



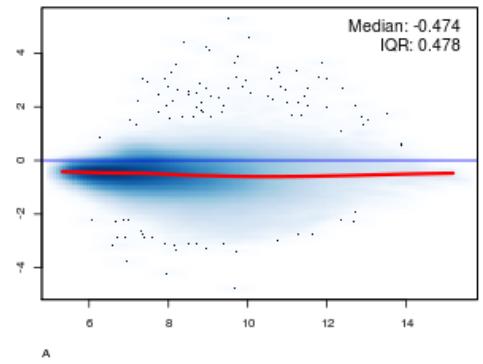
Array16 vs pseudo-median reference chip



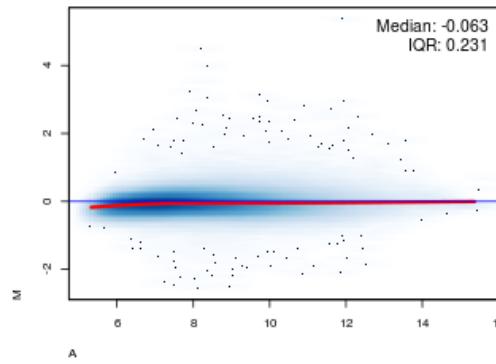
Array17 vs pseudo-median reference chip



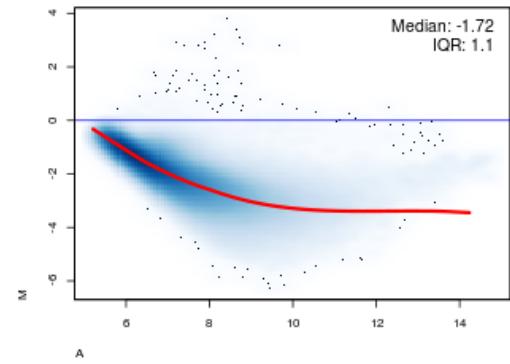
Array18 vs pseudo-median reference chip



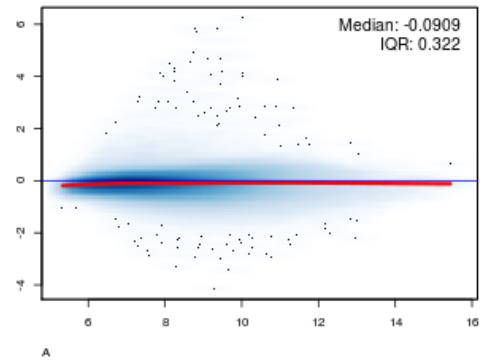
Array19 vs pseudo-median reference chip



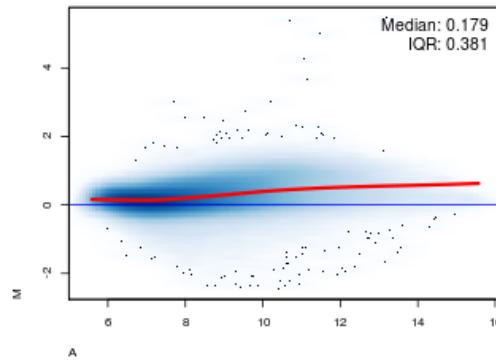
Array20 vs pseudo-median reference chip



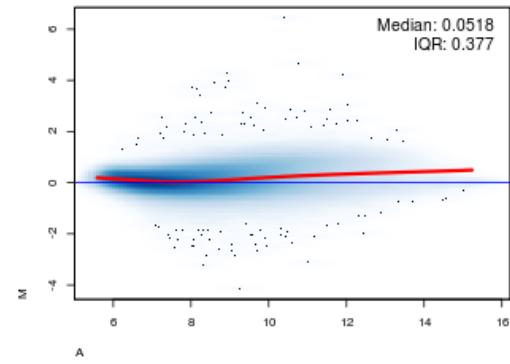
Array21 vs pseudo-median reference chip



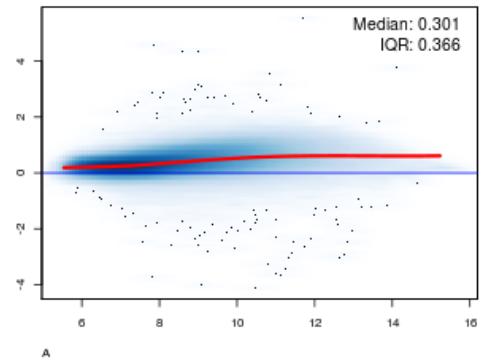
Array22 vs pseudo-median reference chip



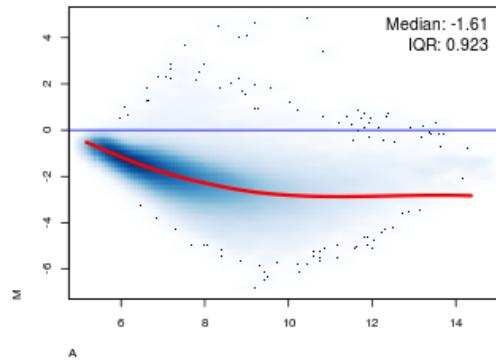
Array23 vs pseudo-median reference chip



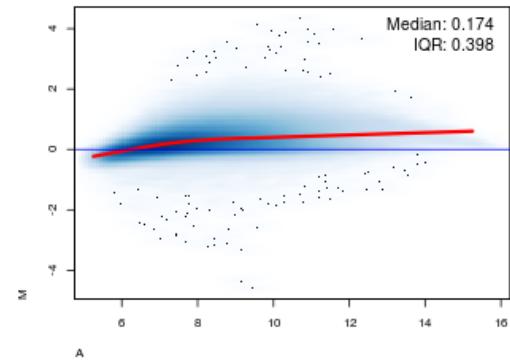
Array1 vs pseudo-median reference chip



Array2 vs pseudo-median reference chip

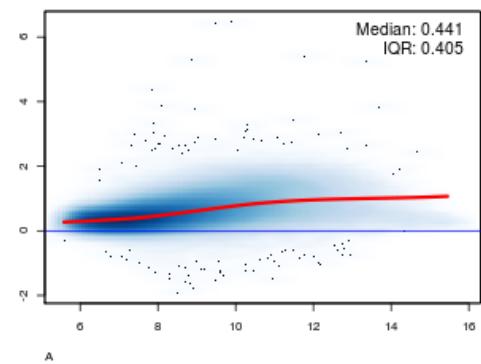


Array3 vs pseudo-median reference chip

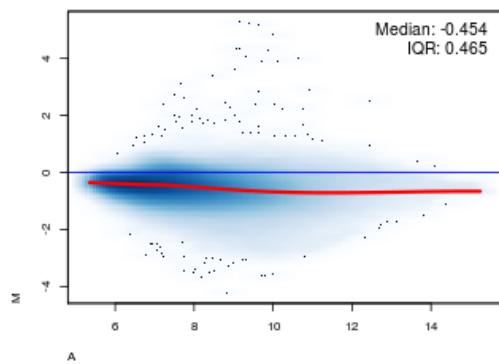


MA plots of raw data 2 / 2

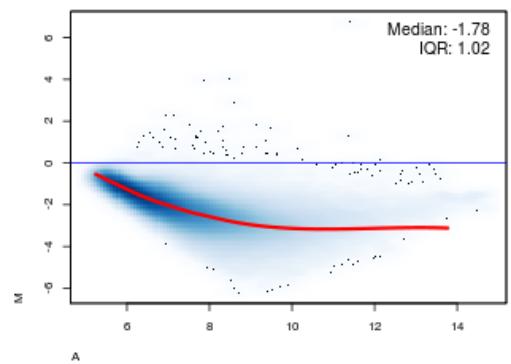
Array4 vs pseudo-median reference chip



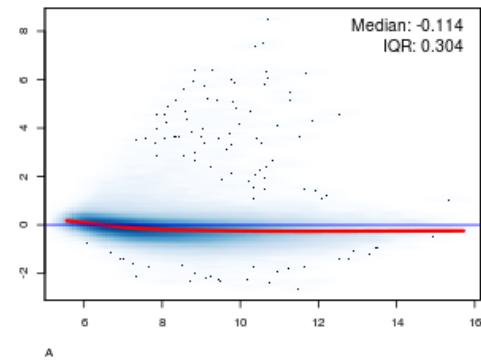
Array5 vs pseudo-median reference chip



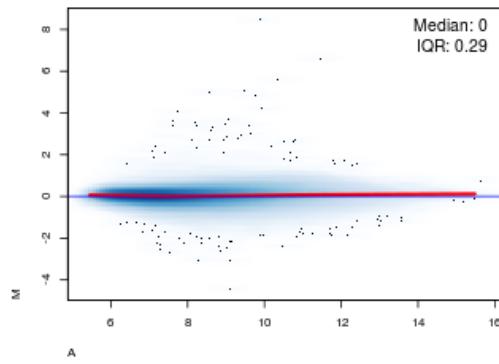
Array6 vs pseudo-median reference chip



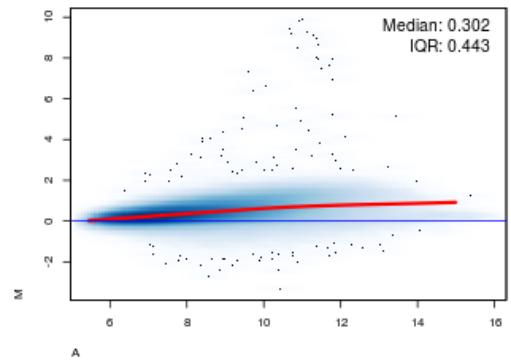
Array7 vs pseudo-median reference chip



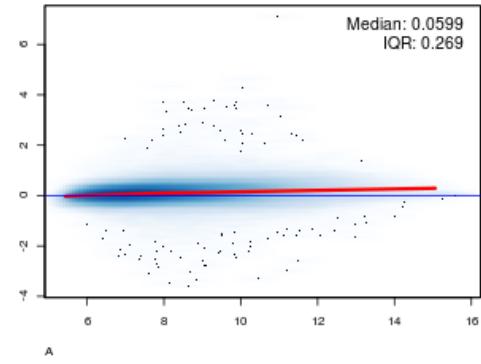
Array8 vs pseudo-median reference chip



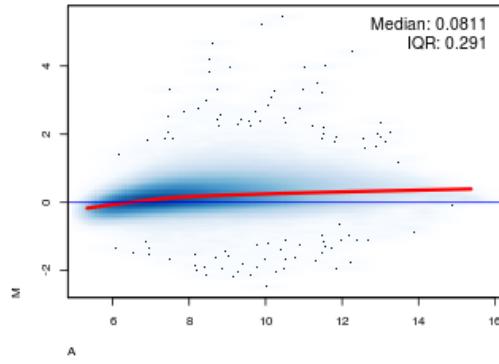
Array9 vs pseudo-median reference chip



Array10 vs pseudo-median reference chip

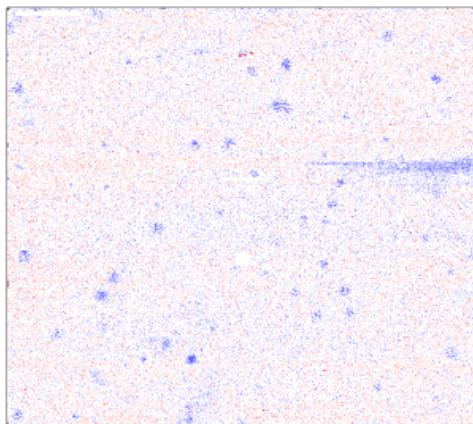


Array11 vs pseudo-median reference chip

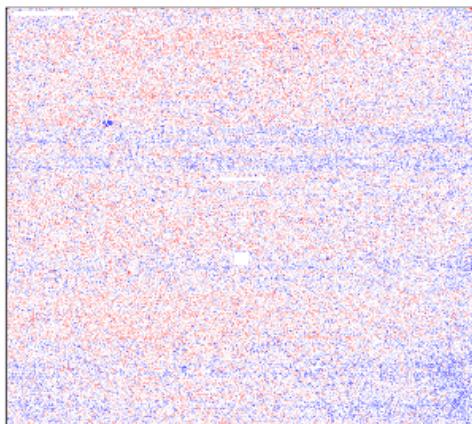


2D virtual PLM image for model characteristic: resids 1 / 2

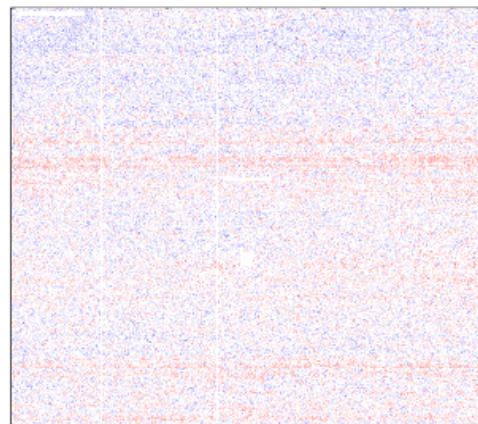
Array12



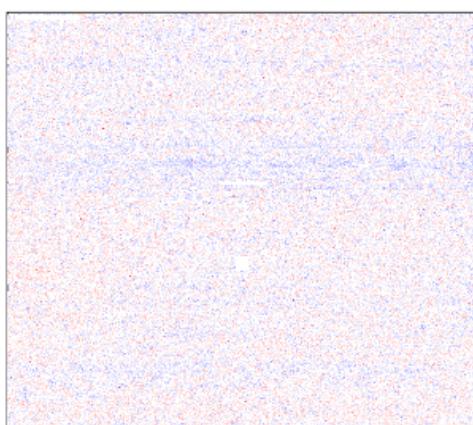
Array13



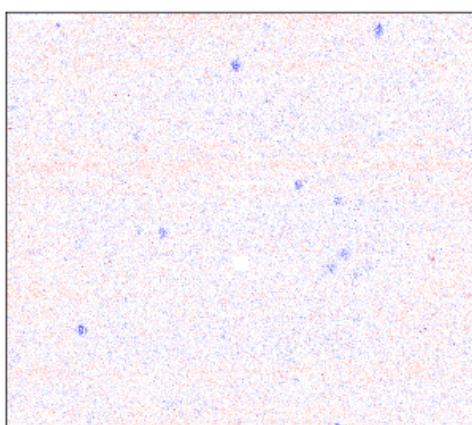
Array14



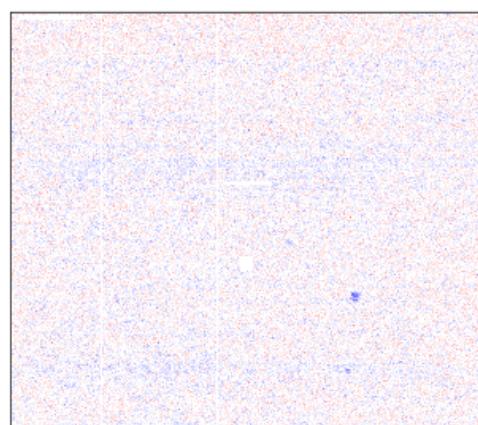
Array15



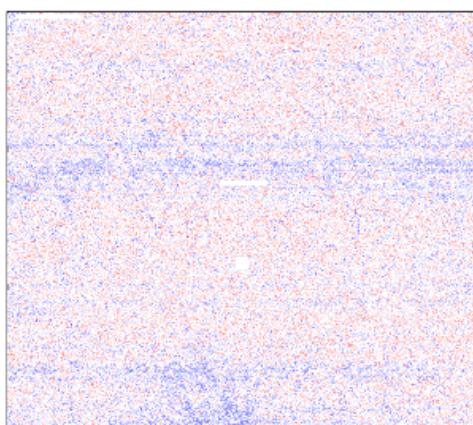
Array16



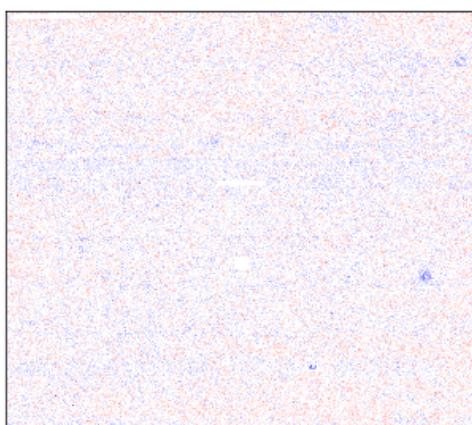
Array17



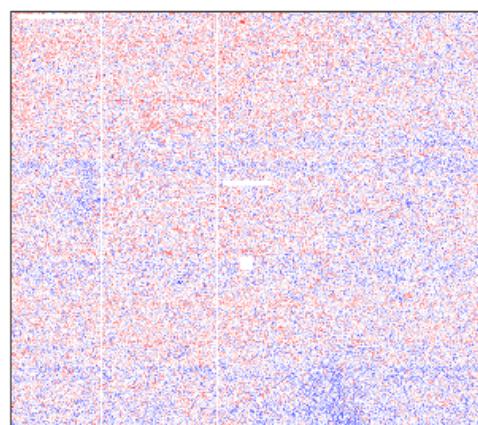
Array18



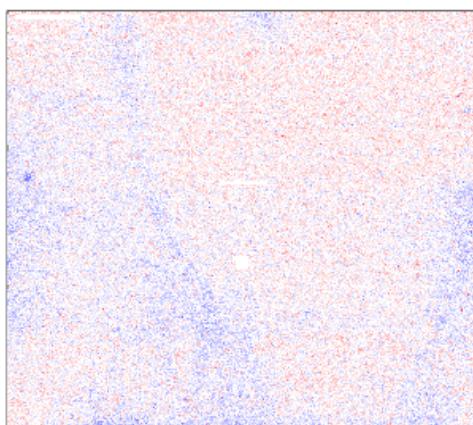
Array19



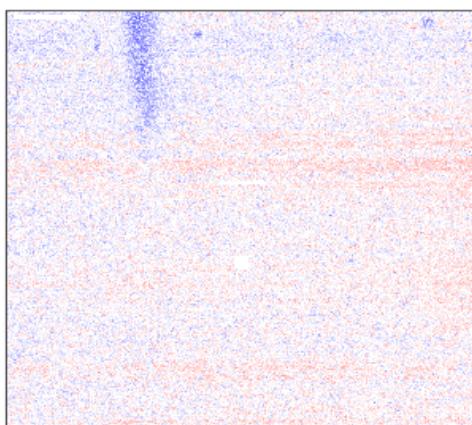
Array20



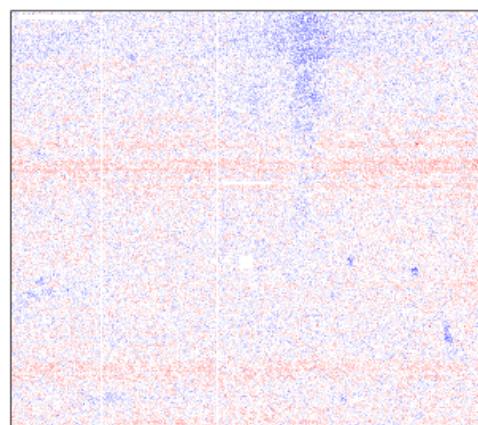
Array21



Array22

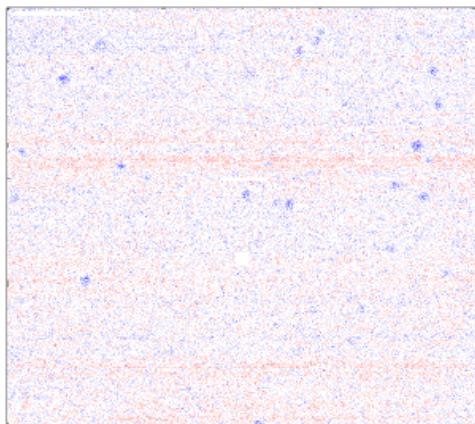


Array23

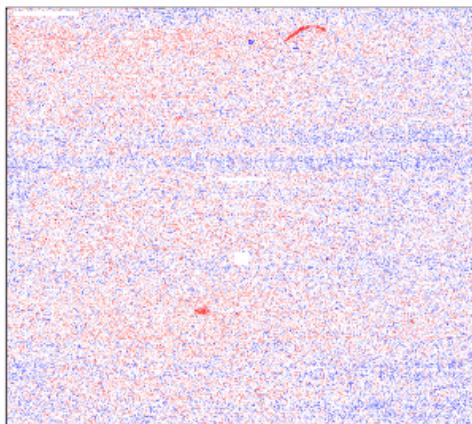


2D virtual PLM image for model characteristic: resids 2 / 2

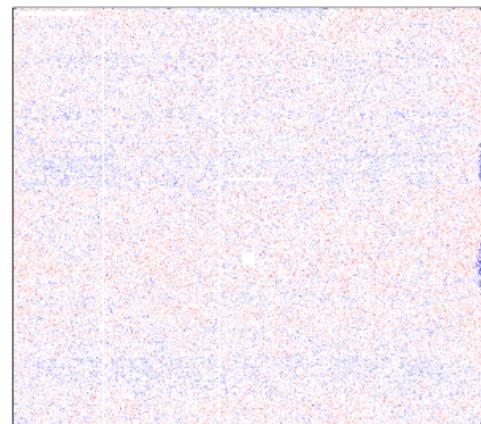
Array1



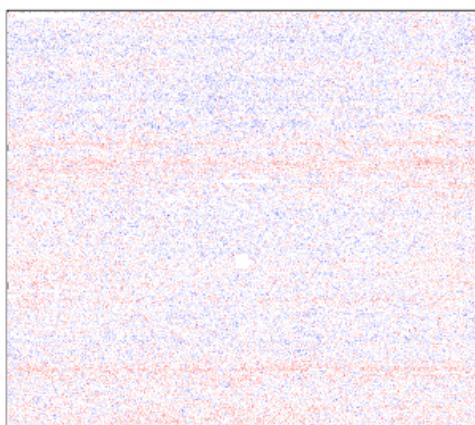
Array2



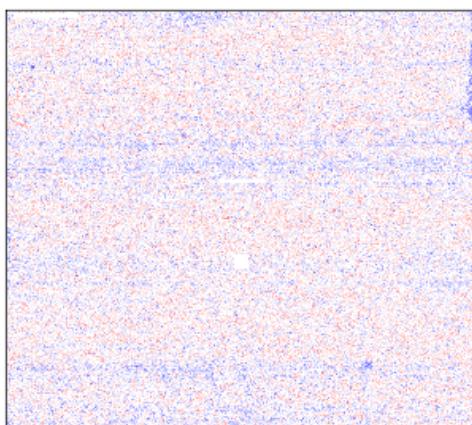
Array3



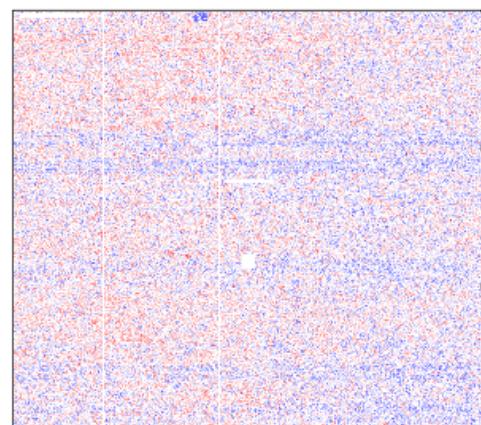
Array4



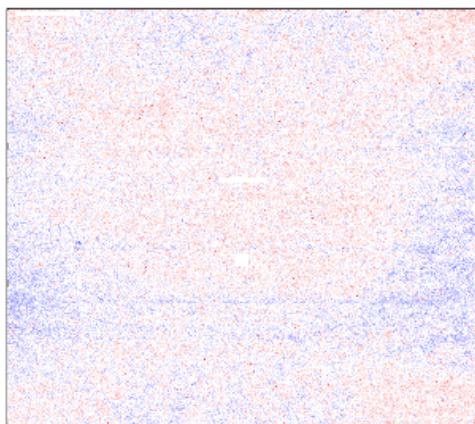
Array5



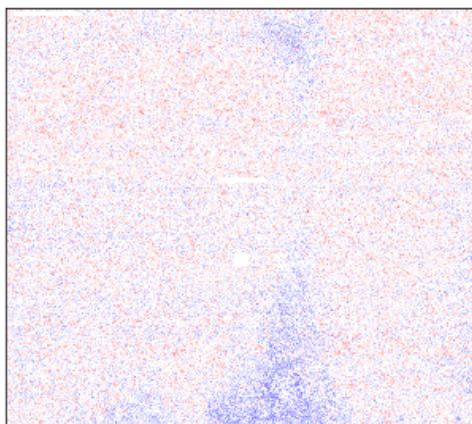
Array6



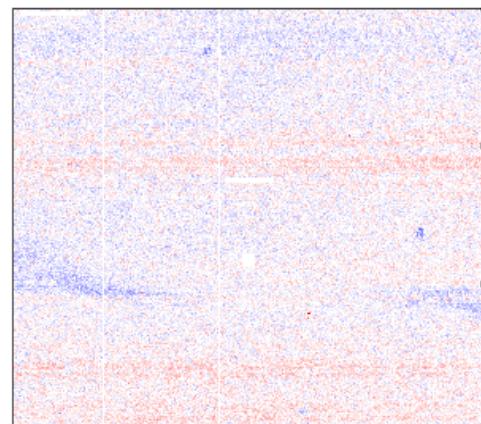
Array7



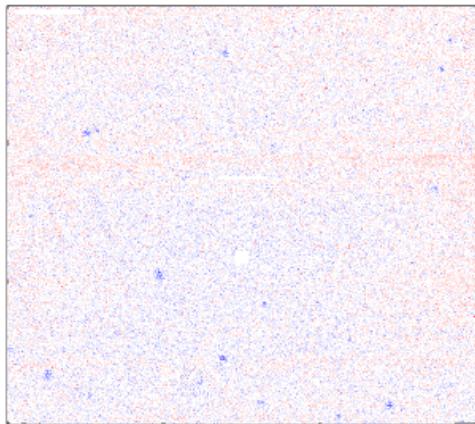
Array8



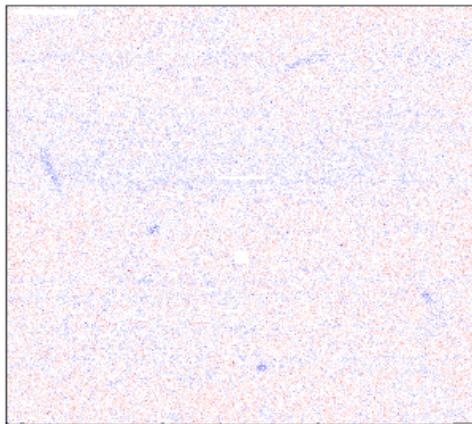
Array9



Array10

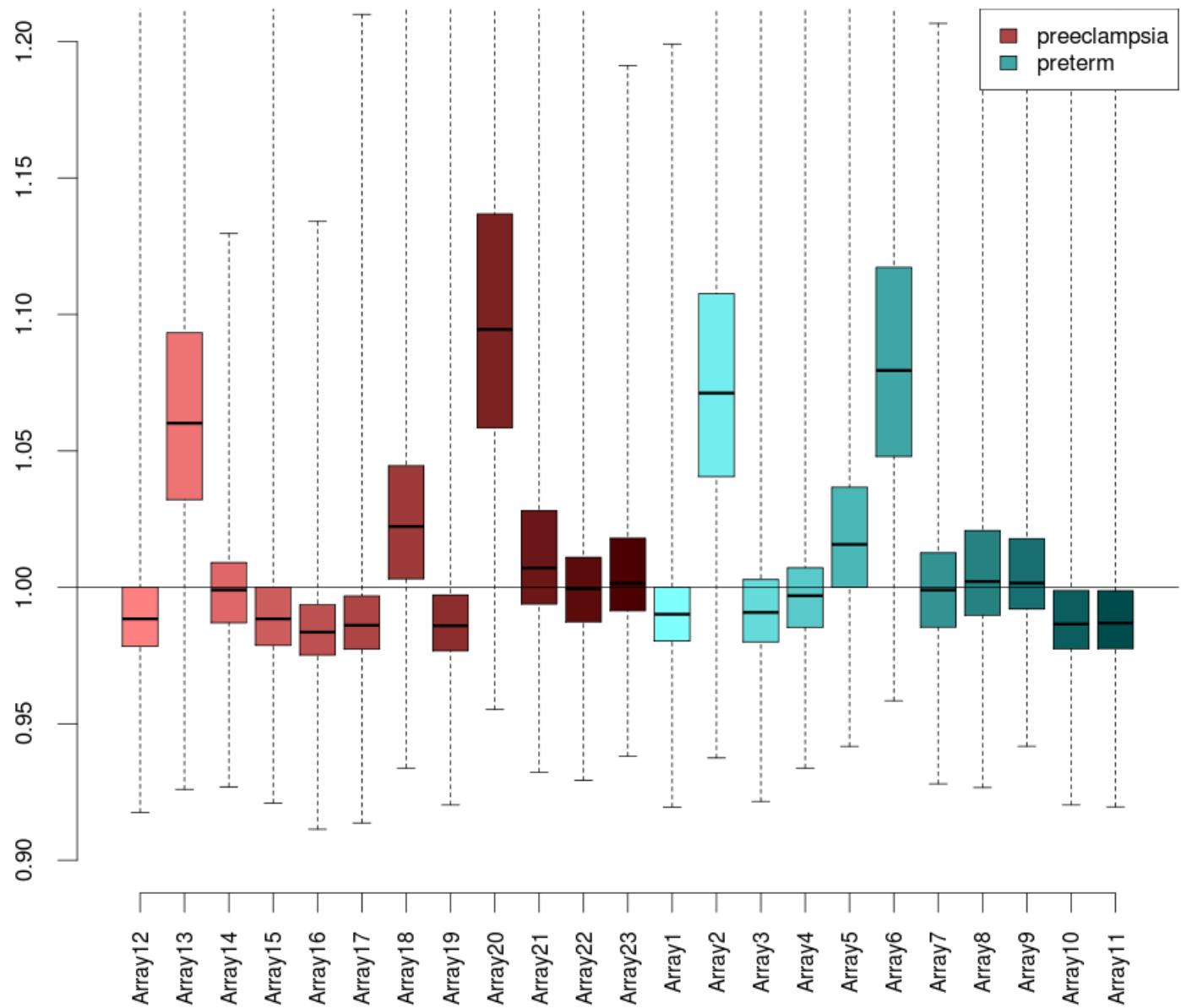


Array11



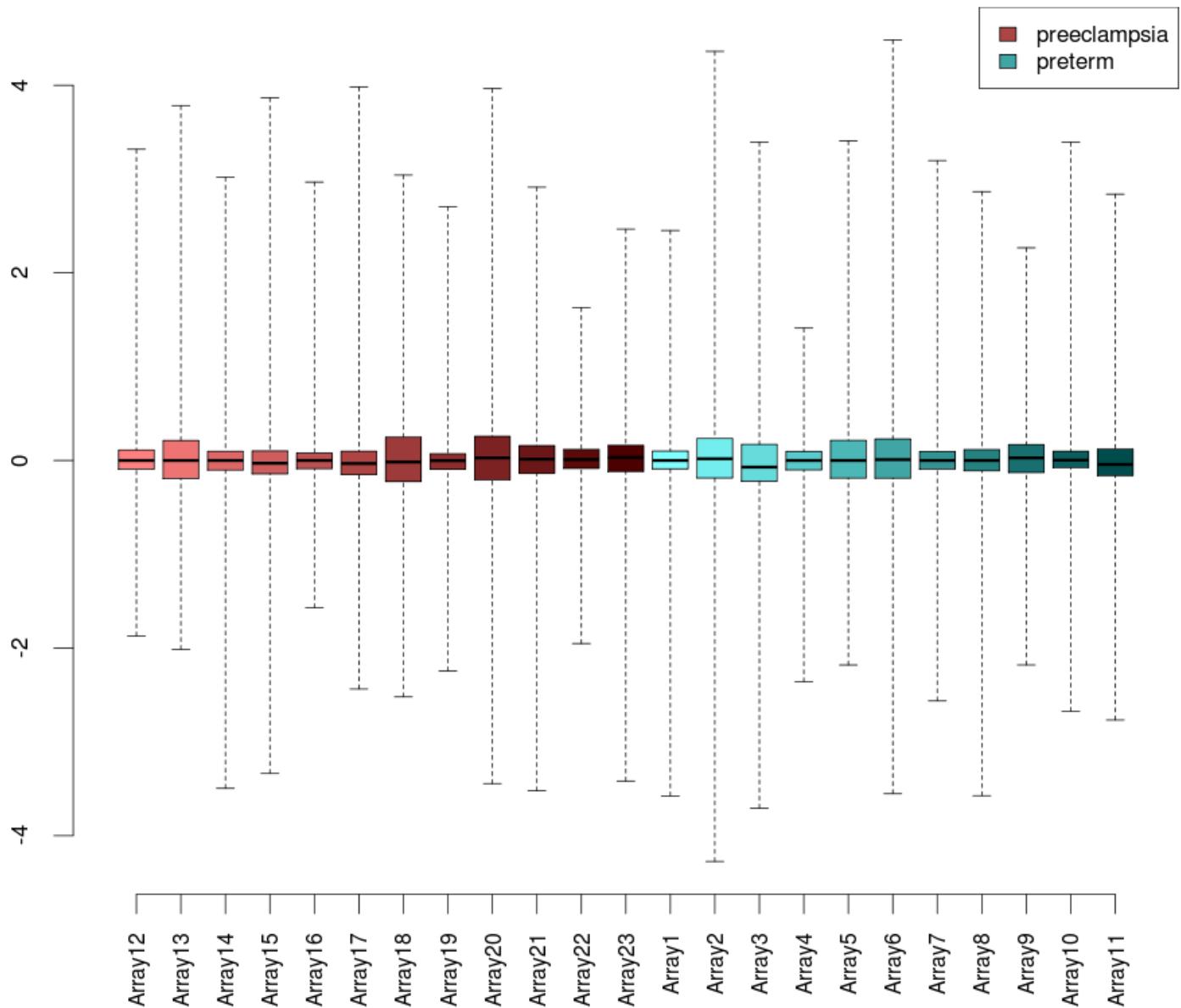
Normalized Unscaled Standard Errors (NUSE)

NUSE median value should be < 1.1

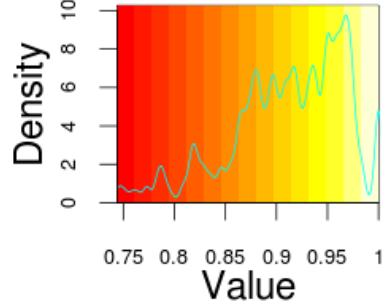


Relative Log Expression (RLE)

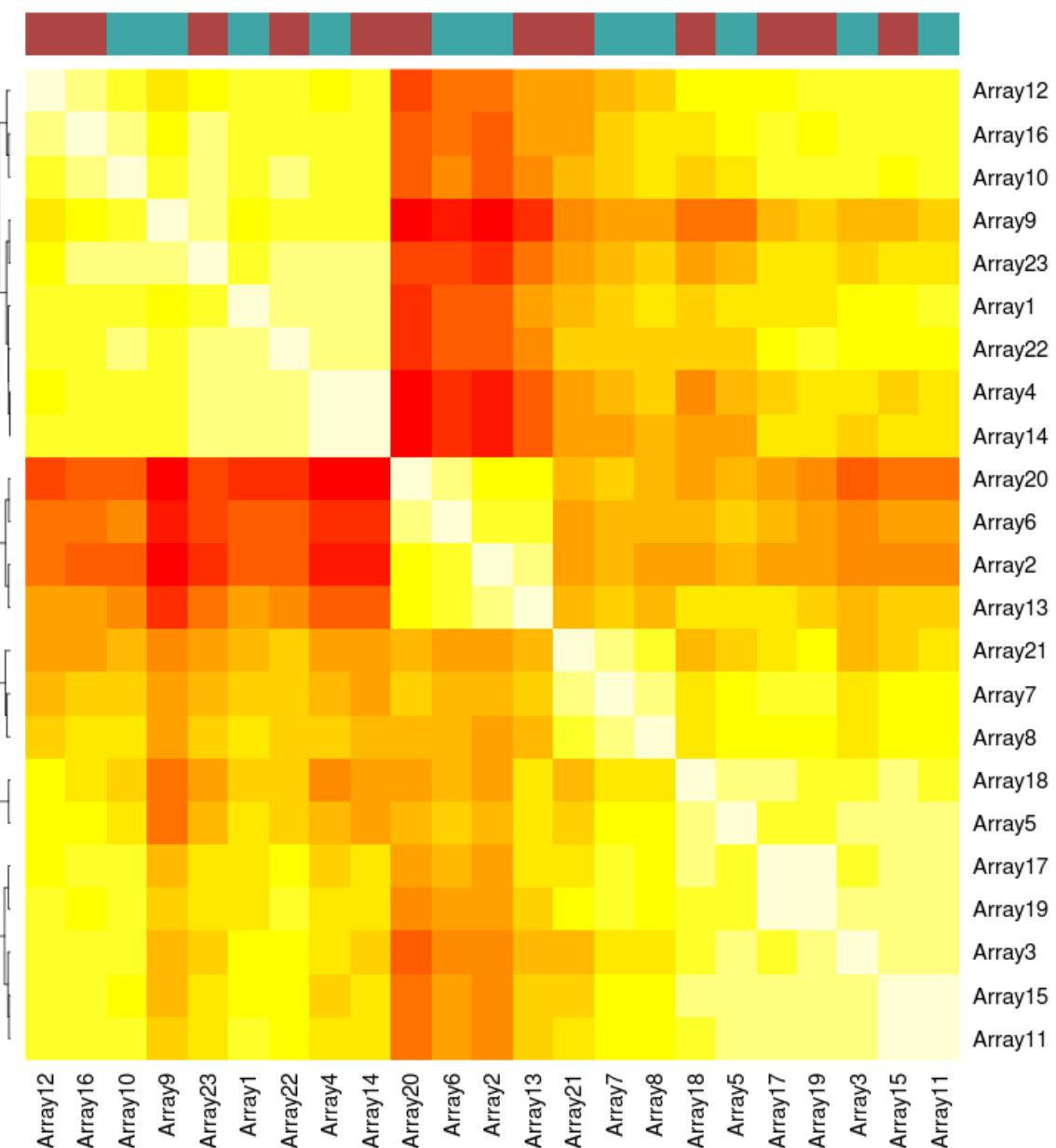
RLE distributions should be centered around 0



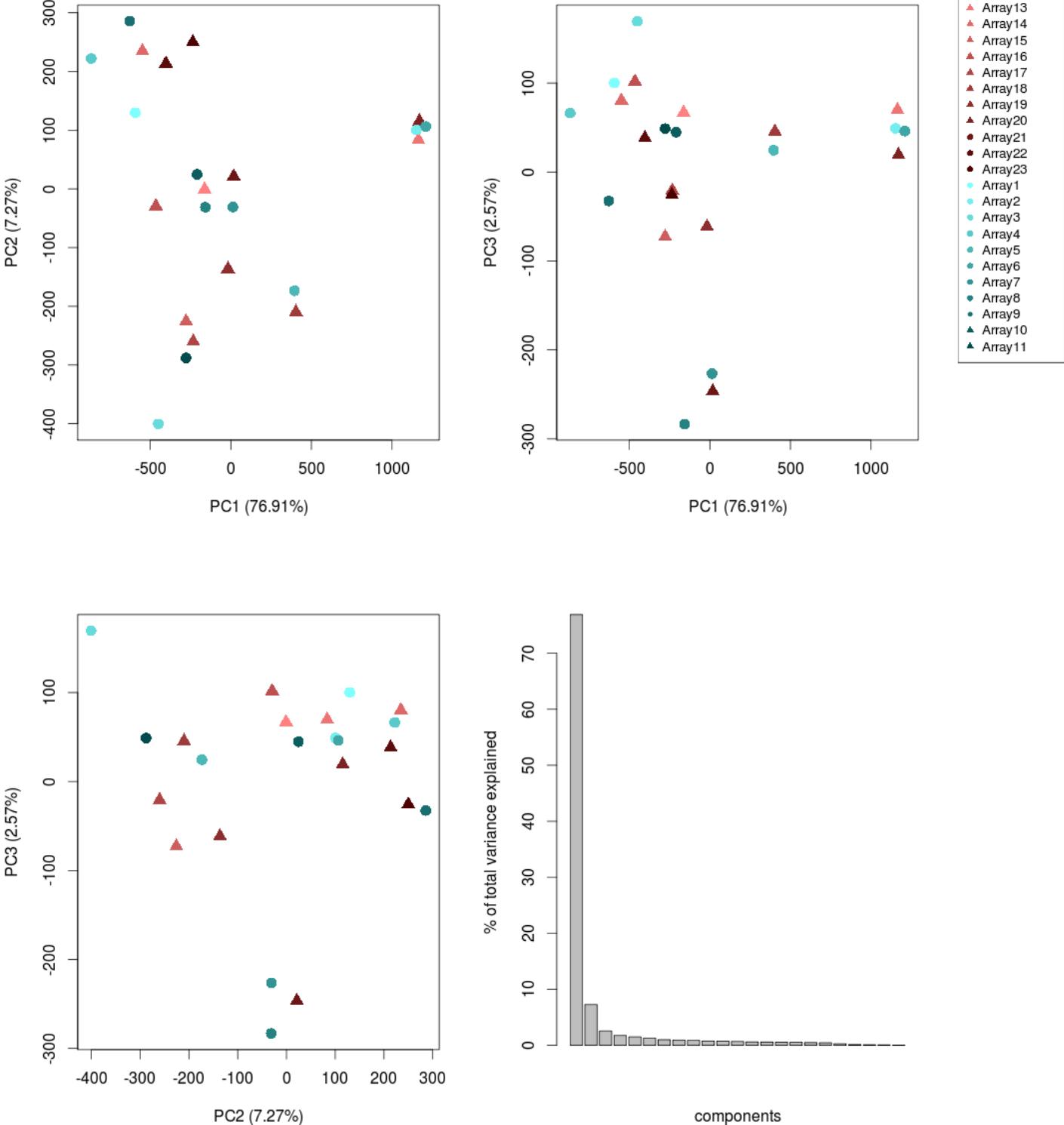
**Color Key
and Density Plot**



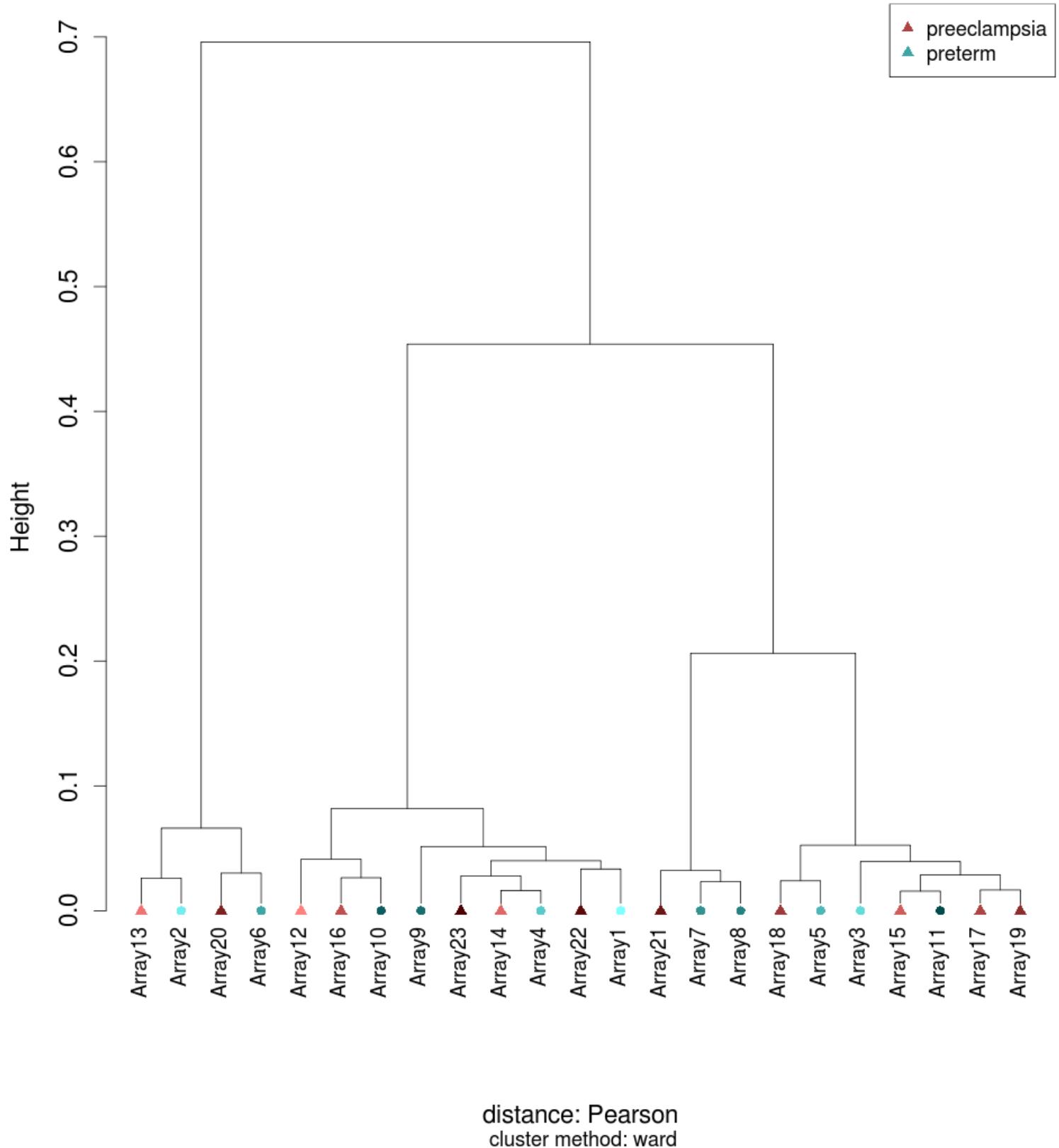
Raw data correlation plot
correlation method: pearson
cluster method: ward



PCA analysis of Raw data

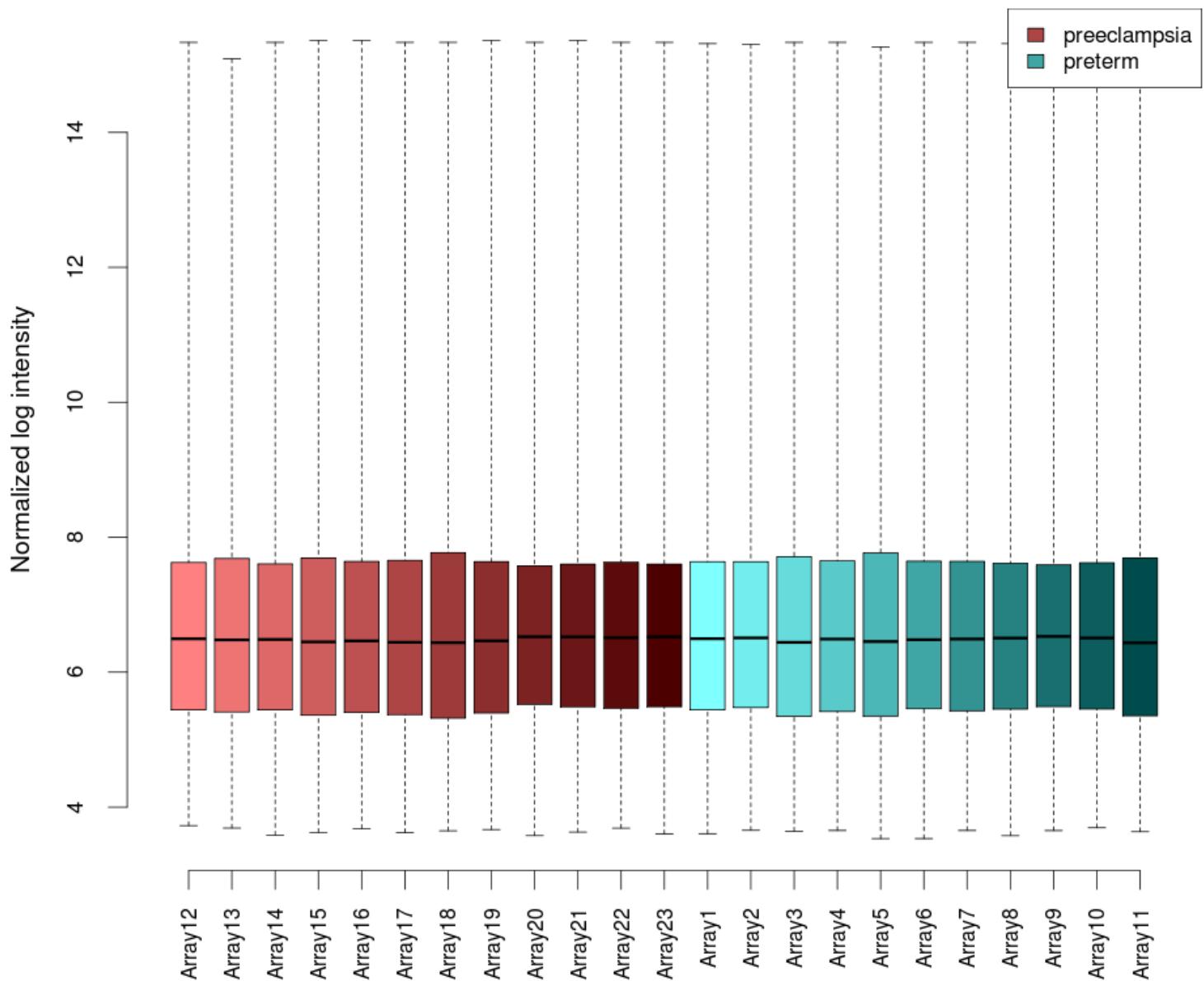


Cluster dendrogram of raw data



Boxplot after RMA

Distributions should be comparable between arrays

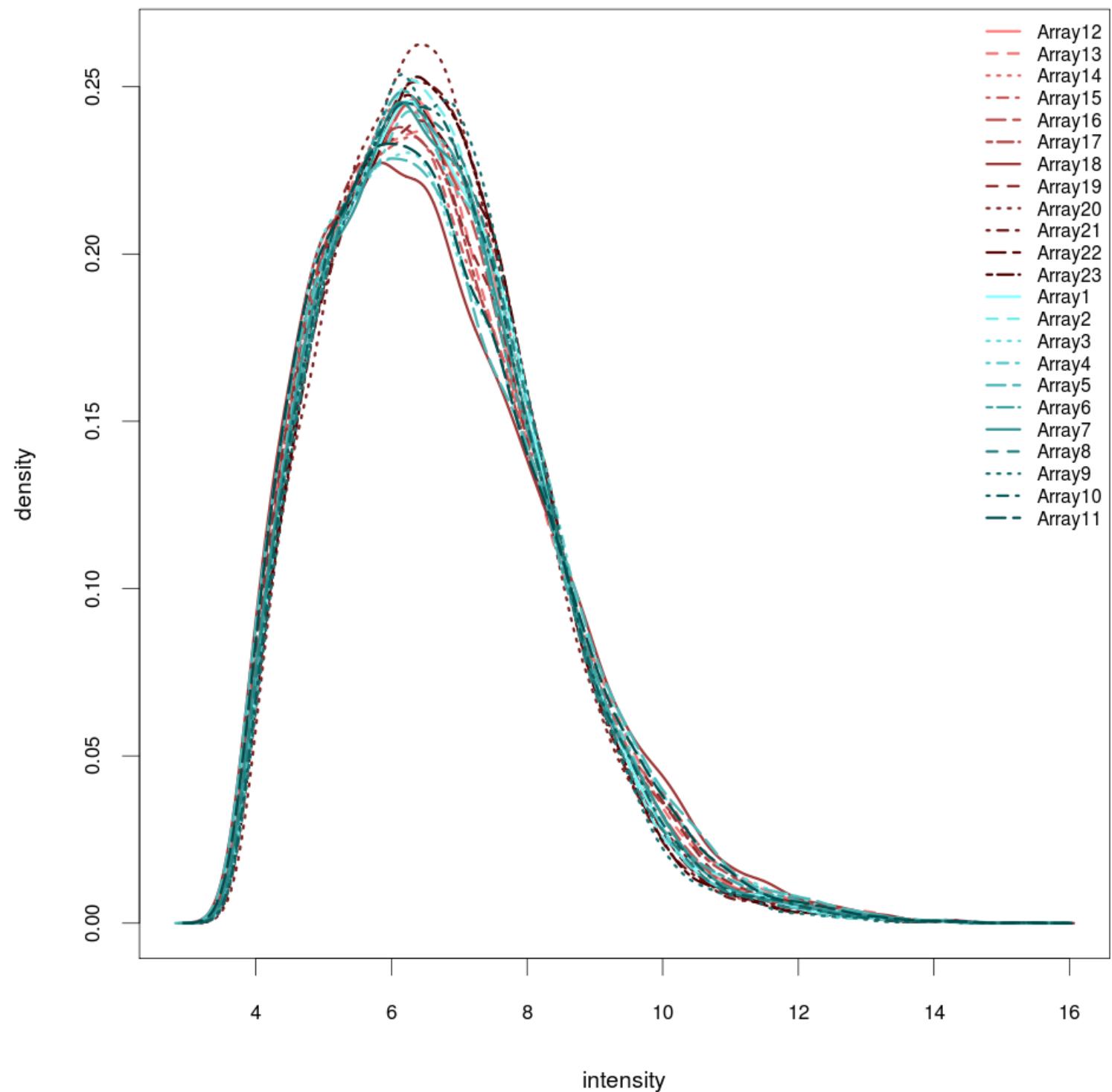


Pre-processing of Raw Data

Method: RMA
Annotation: hg133a_Hs_ENSG

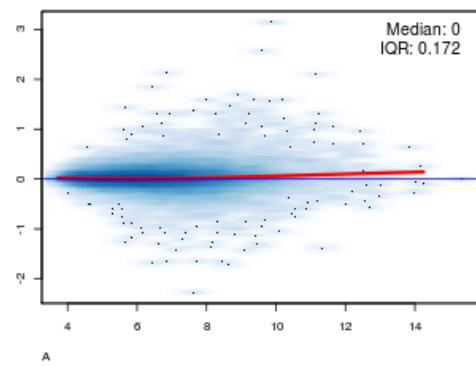
Density histogram after RMA

Curves should be comparable between arrays



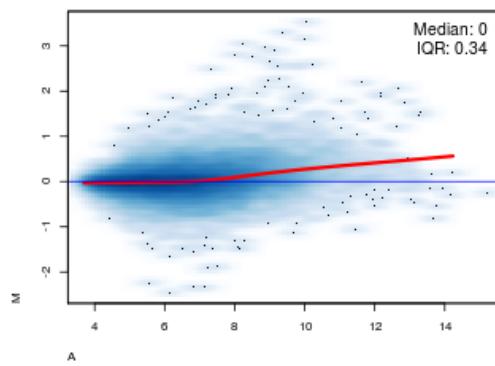
MA plots after RMA normalization 1 / 2

Array12 vs pseudo-median reference chip

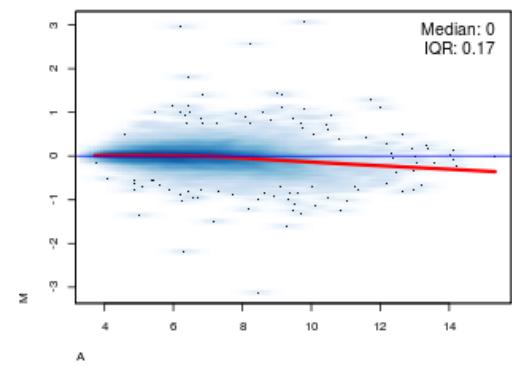


Array13 vs pseudo-median reference chip

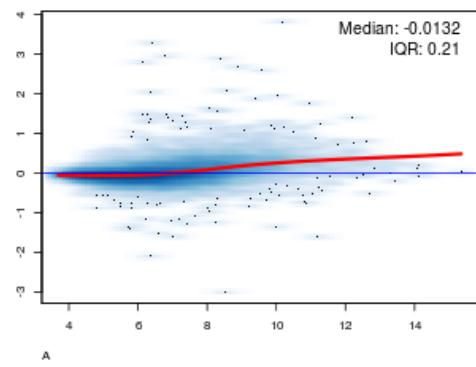
Array13 vs pseudo-median reference chip



Array14 vs pseudo-median reference chip

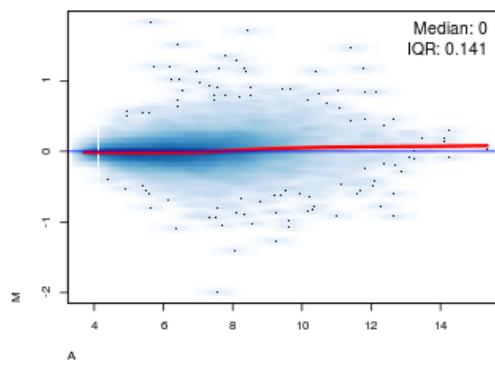


Array15 vs pseudo-median reference chip

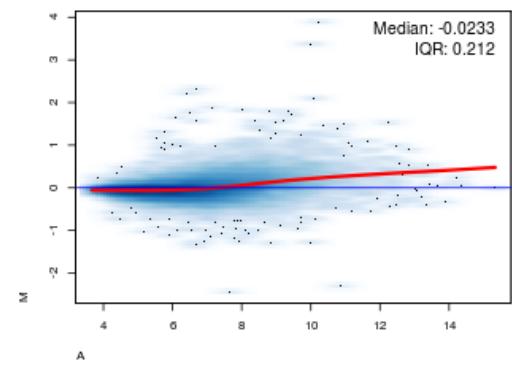


Array16 vs pseudo-median reference chip

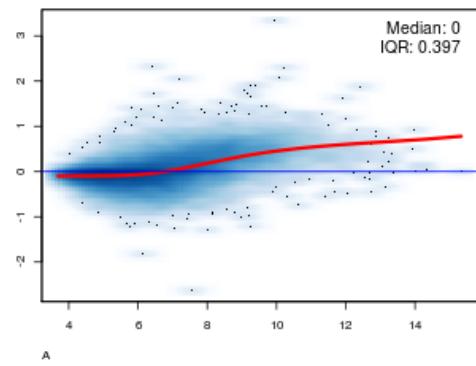
Array16 vs pseudo-median reference chip



Array17 vs pseudo-median reference chip

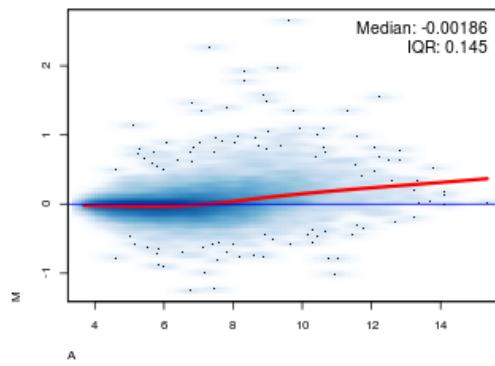


Array18 vs pseudo-median reference chip

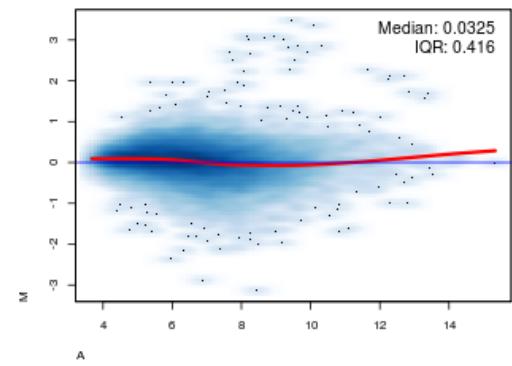


Array19 vs pseudo-median reference chip

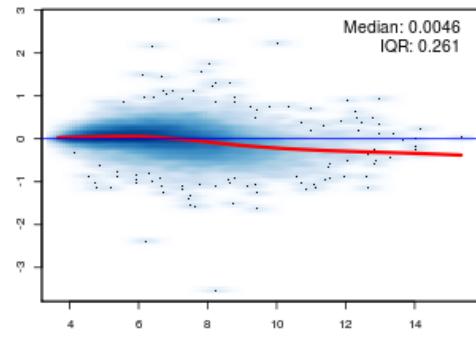
Array19 vs pseudo-median reference chip



Array20 vs pseudo-median reference chip

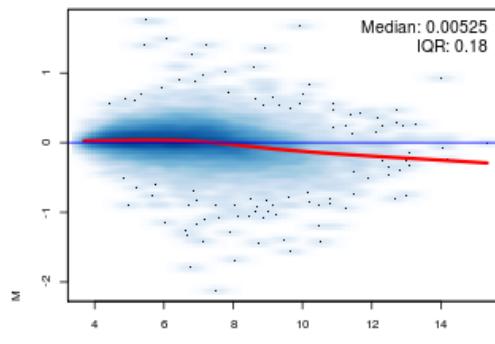


Array21 vs pseudo-median reference chip

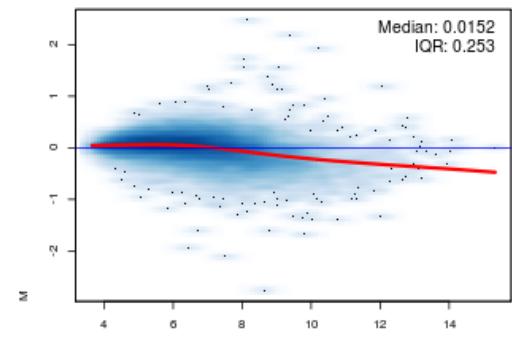


Array22 vs pseudo-median reference chip

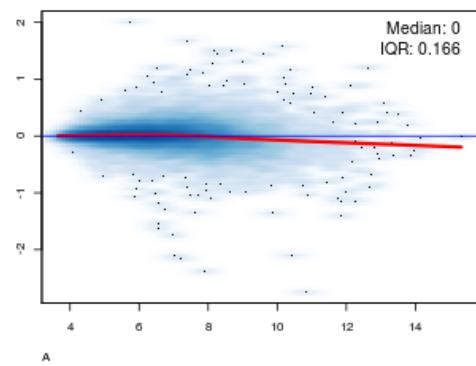
Array22 vs pseudo-median reference chip



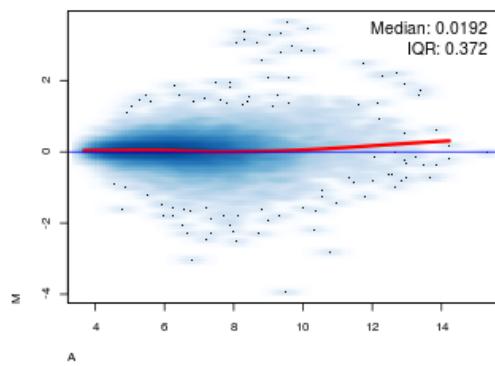
Array23 vs pseudo-median reference chip



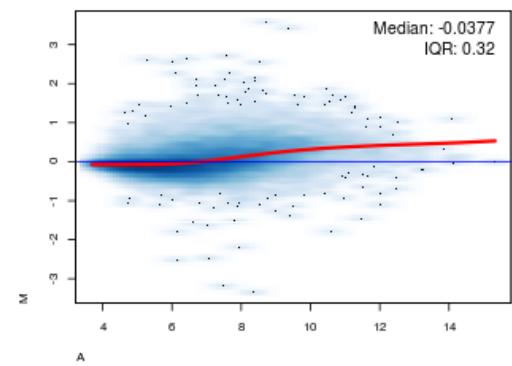
Array1 vs pseudo-median reference chip



Array2 vs pseudo-median reference chip

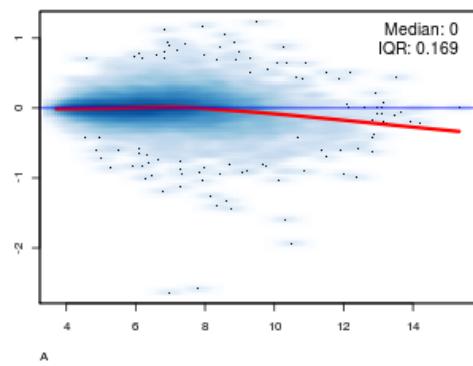


Array3 vs pseudo-median reference chip

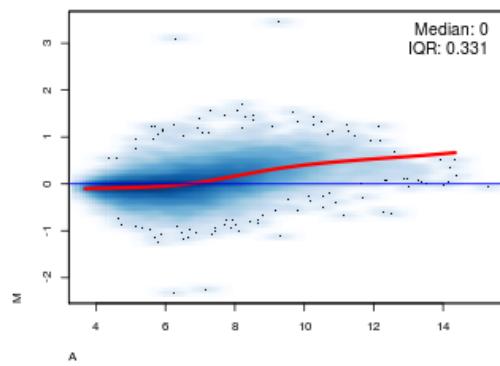


MA plots after RMA normalization 2 / 2

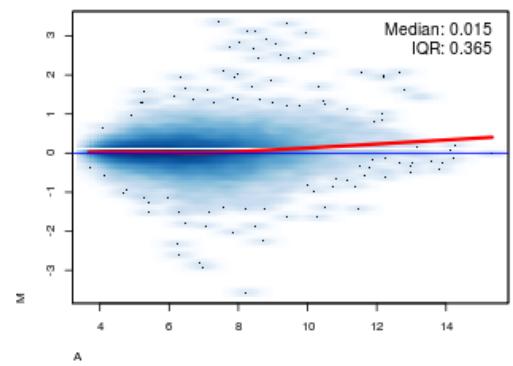
Array4 vs pseudo-median reference chip



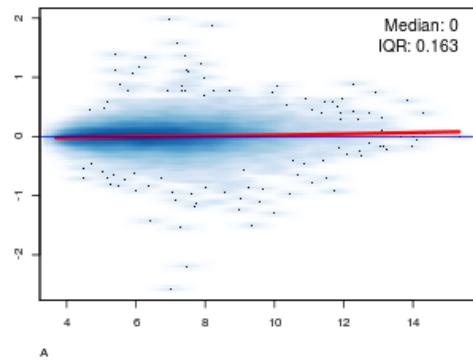
Array5 vs pseudo-median reference chip



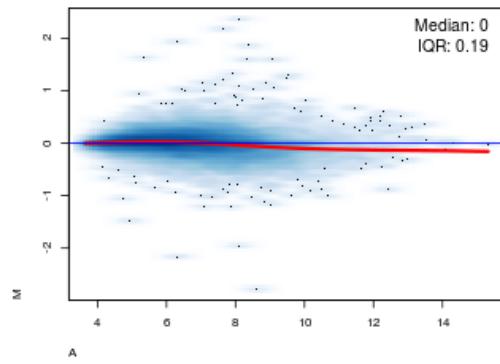
Array6 vs pseudo-median reference chip



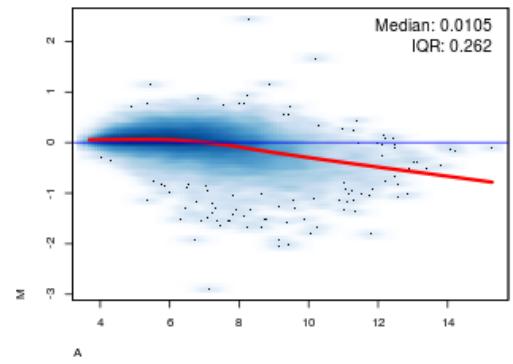
Array7 vs pseudo-median reference chip



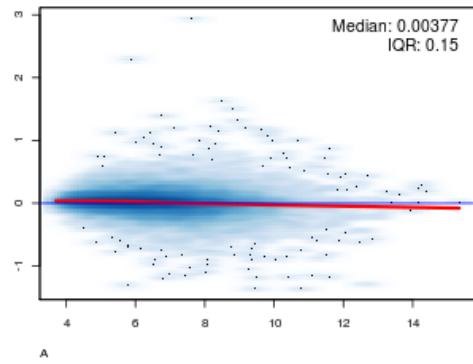
Array8 vs pseudo-median reference chip



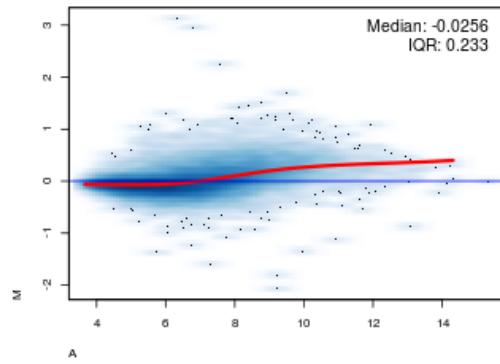
Array9 vs pseudo-median reference chip



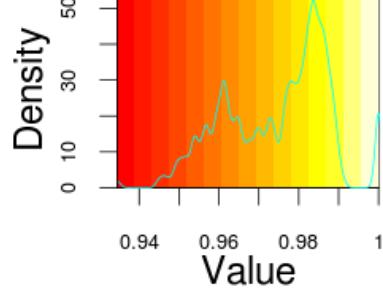
Array10 vs pseudo-median reference chip



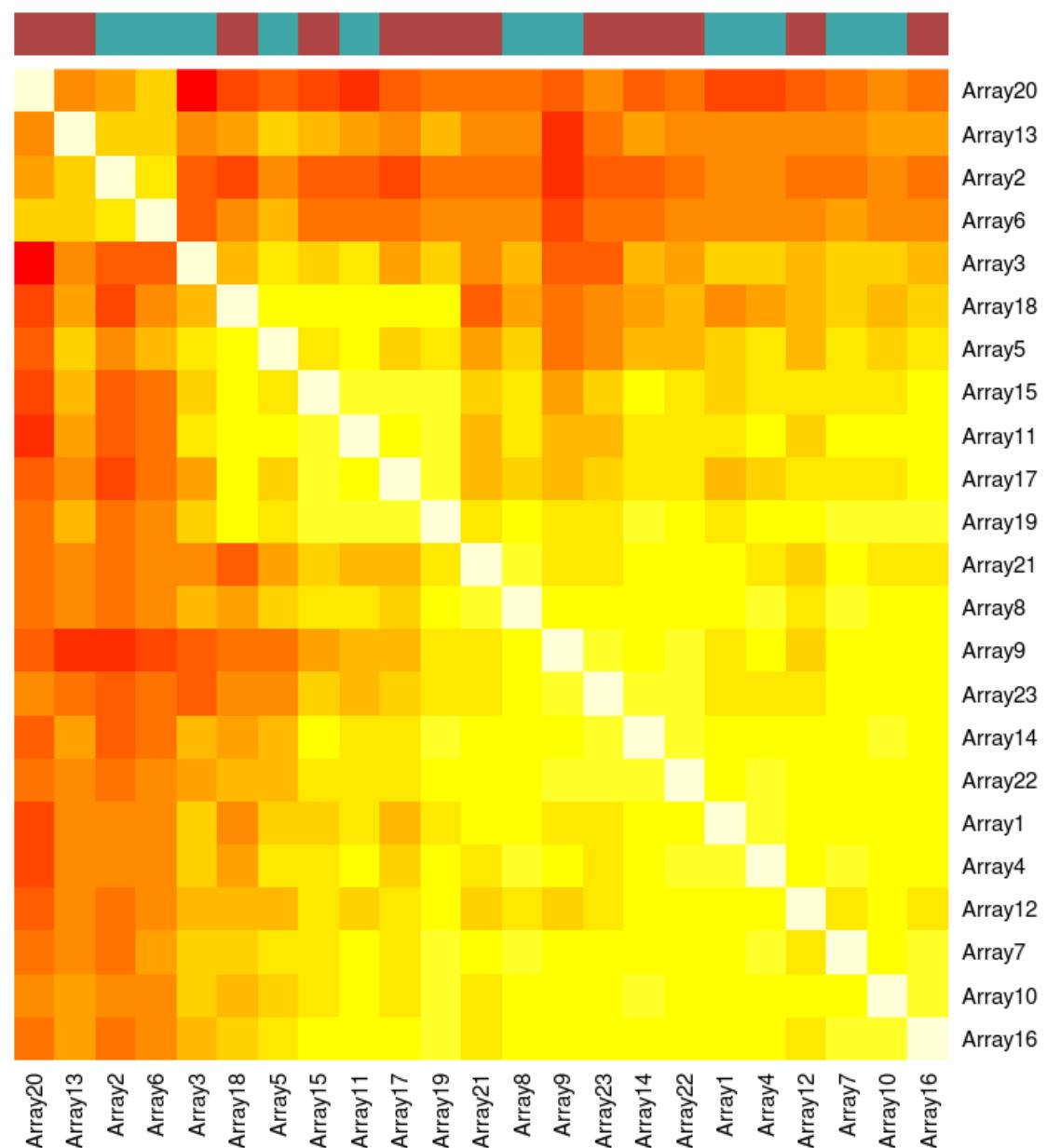
Array11 vs pseudo-median reference chip



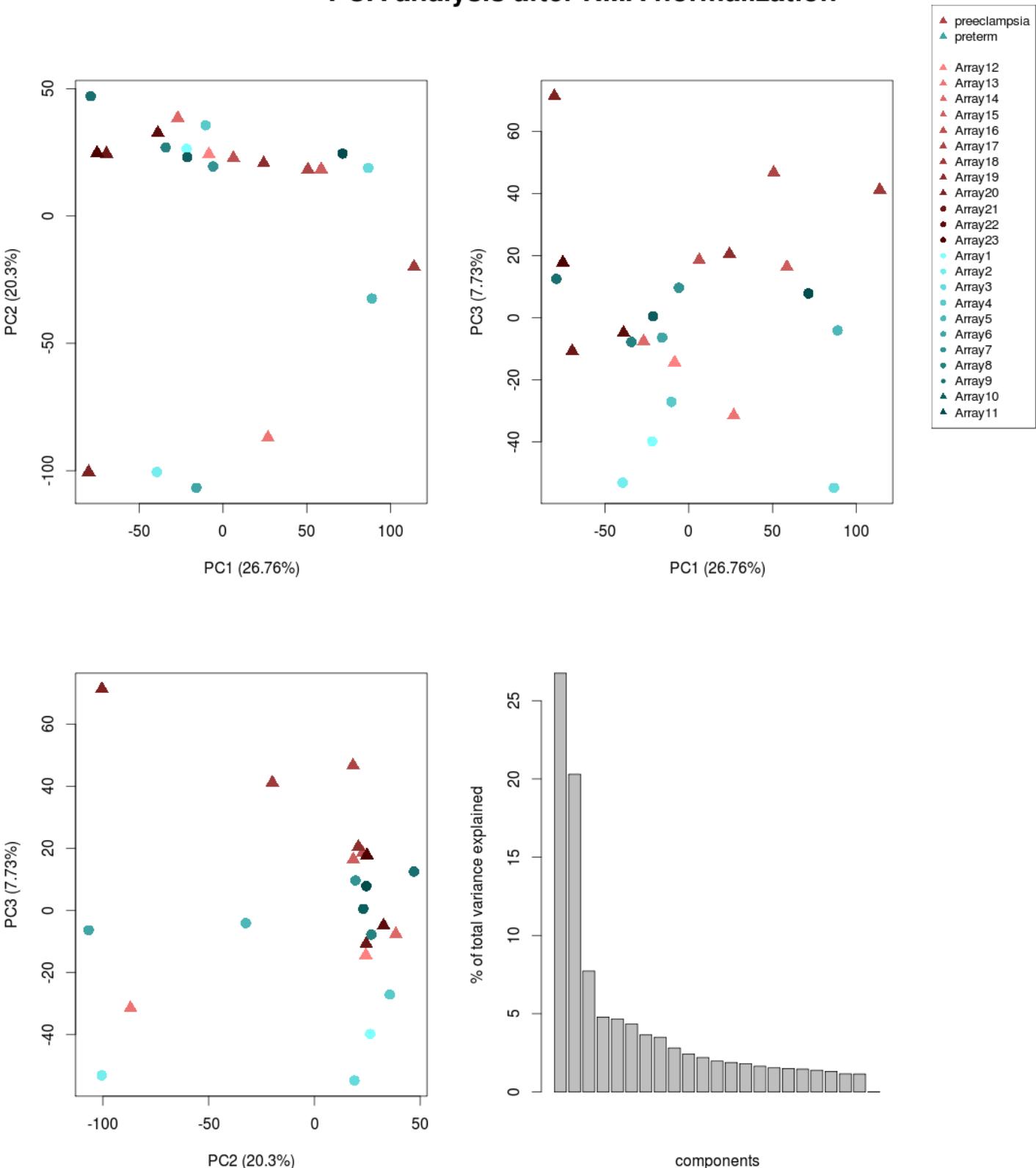
Color Key
and Density Plot



Array correlation plot
after RMA normalization
correlation method: pearson
cluster method: ward



PCA analysis after RMA normalization



Cluster dendrogram of RMA normalized data

