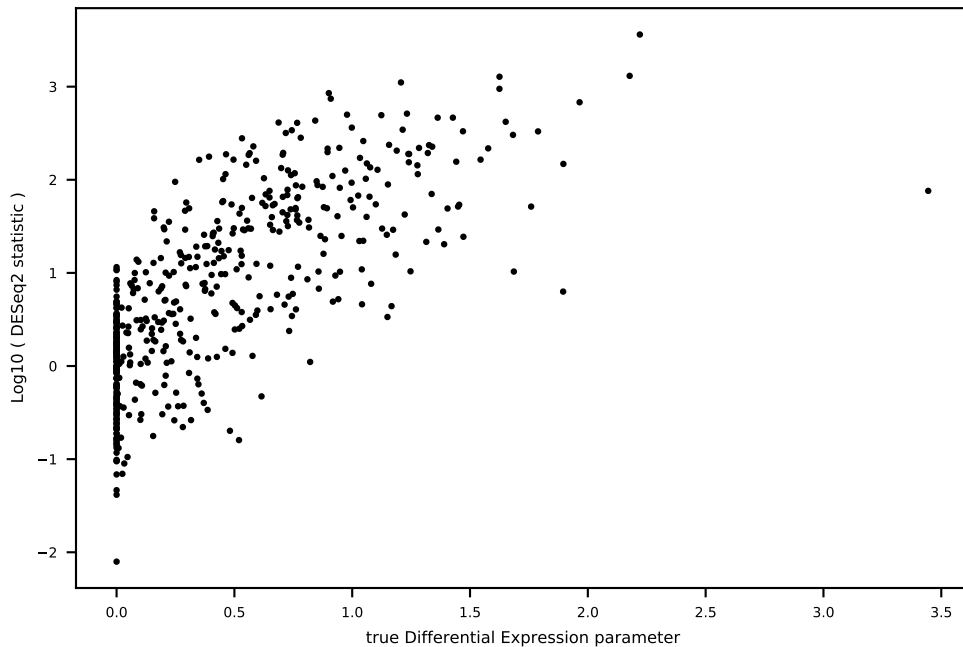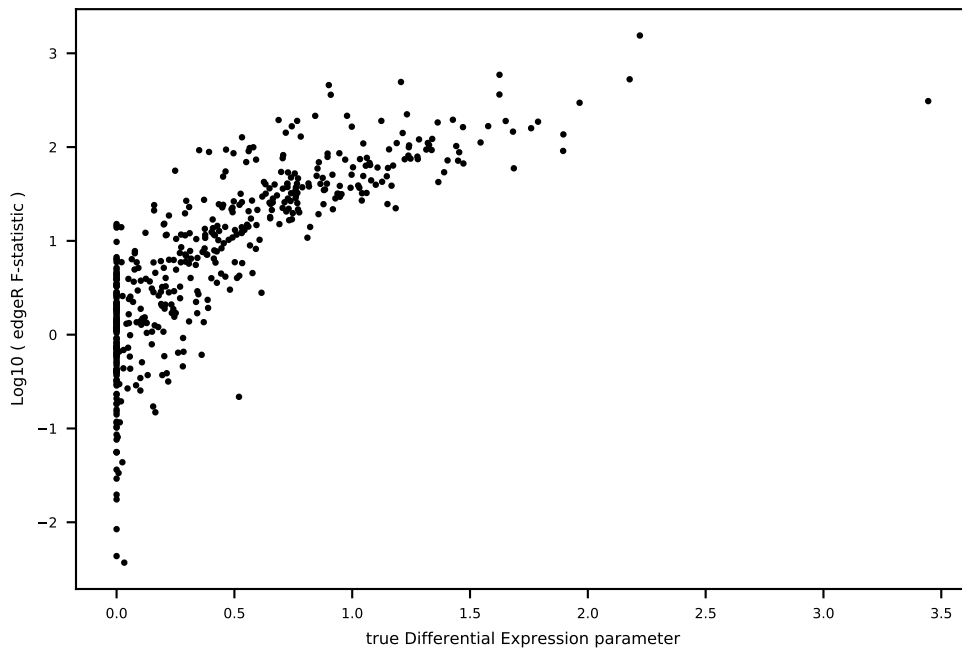Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare DESeq2 statistic to true DE parameter

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare edgeR F-statistic to true DE parameter
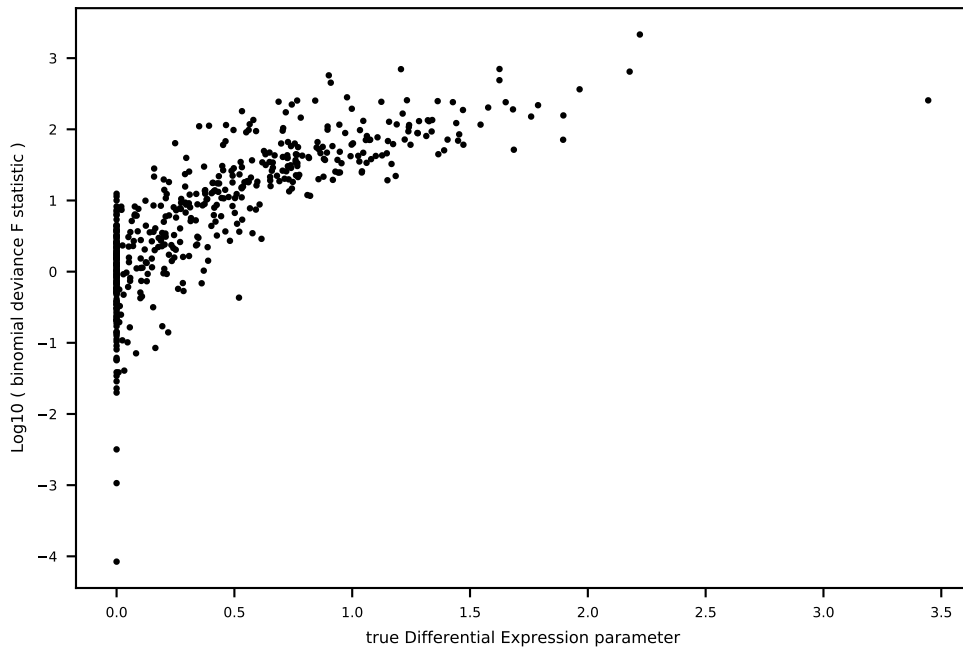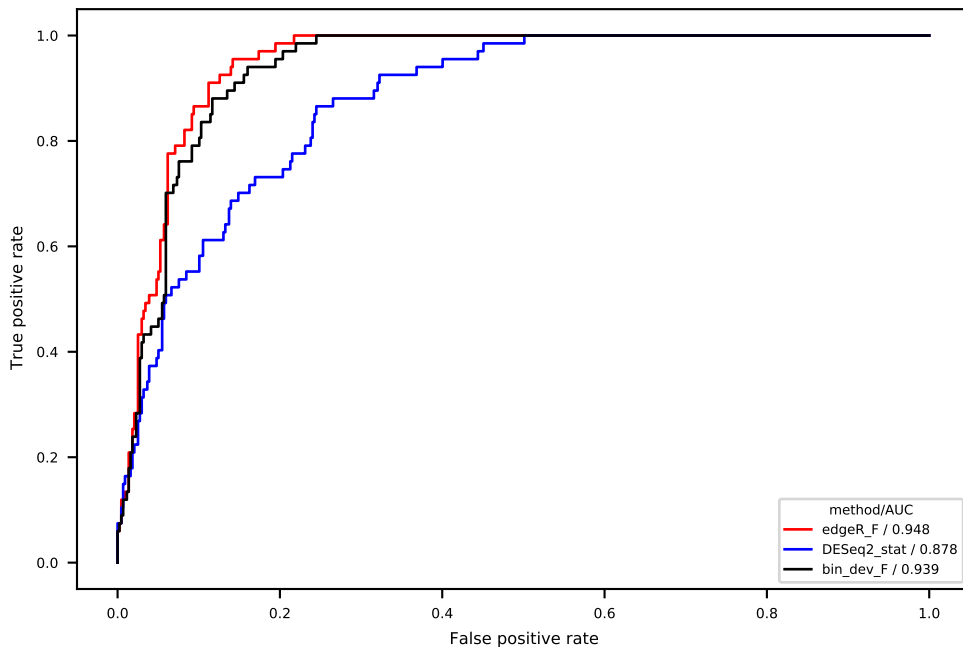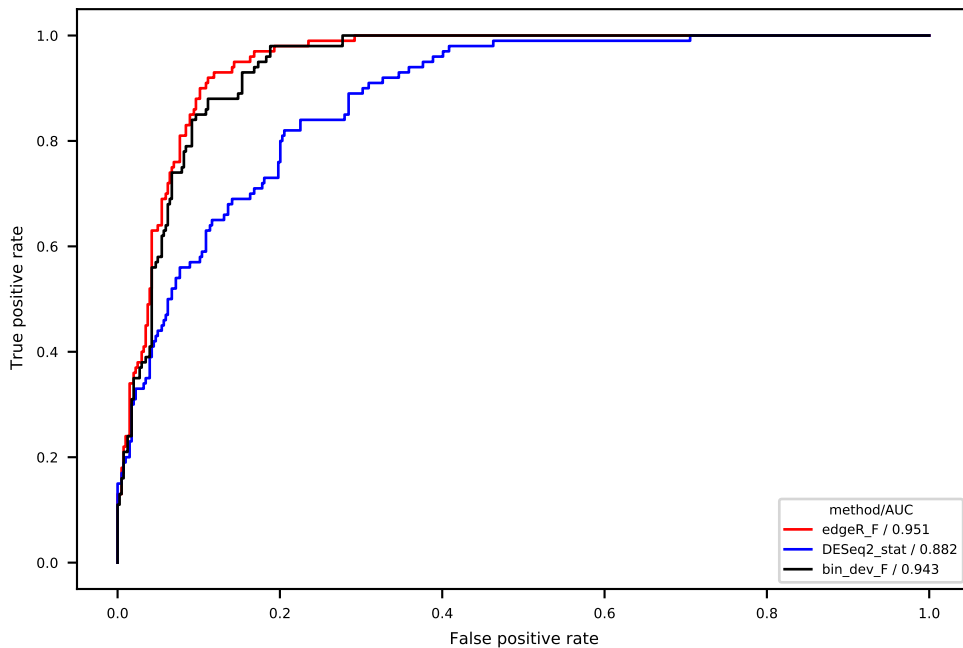
Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare binomial deviance F-statistic to true DE parameter

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if max (abs (log2 (DEFacGroupI / DEFacGroupJ))) > 1.00
number Differentially Expressed: 67

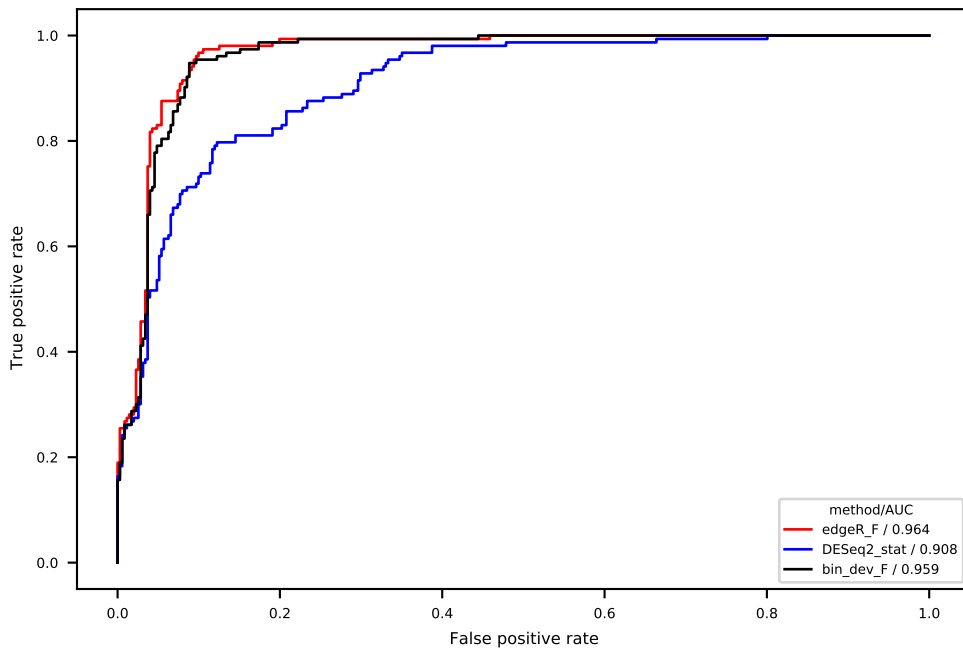| method/AUC	
edgeR_F / 0.948	
DESeq2_stat / 0.878	
bin_dev_F / 0.939	

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if max (abs (log2 (DEFacGroupI / DEFacGroupJ))) > 0.80
number Differentially Expressed: 100

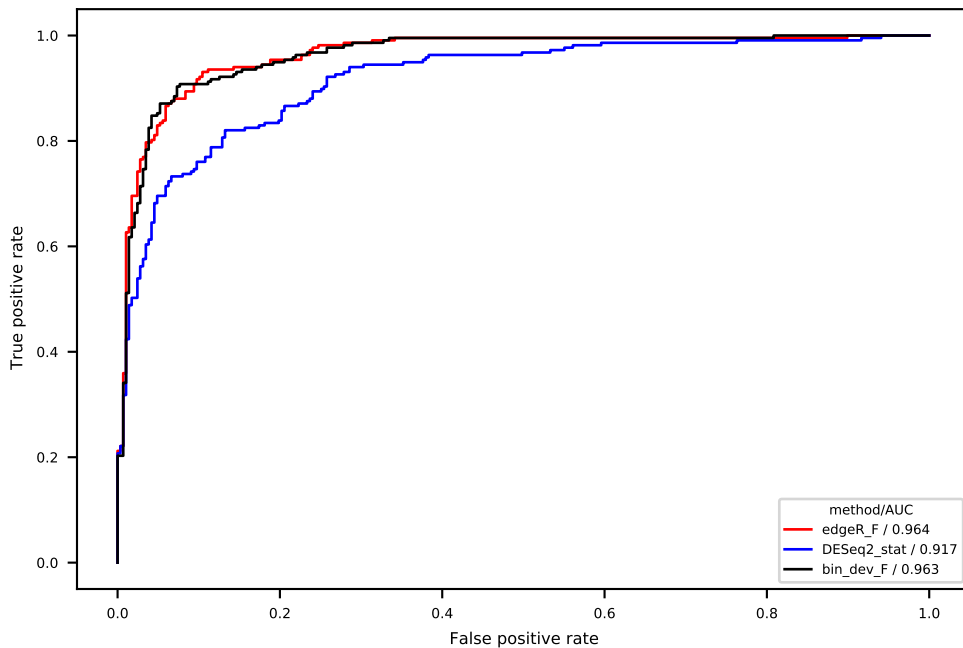| method/AUC |
| --- |
| edgeR_F / 0.951 |
| DESeq2_stat / 0.882 |
| bin_dev_F / 0.943 |

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if max (abs (log2 (DEFacGroupI / DEFacGroupJ))) > 0.60
number Differentially Expressed: 153

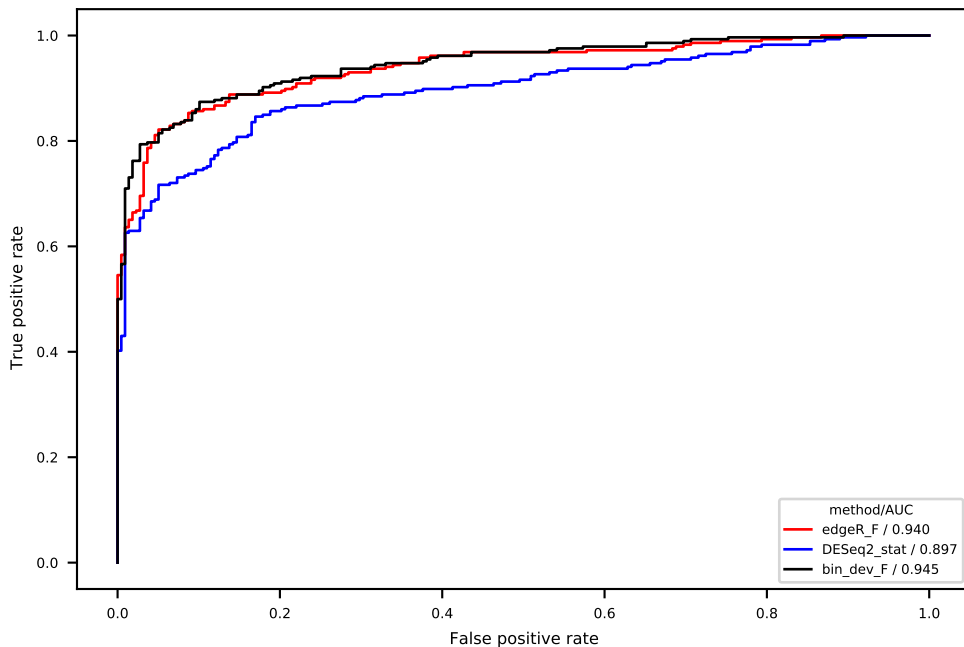| method/AUC |
| --- |
| edgeR_F / 0.964 |
| DESeq2_stat / 0.908 |
| bin_dev_F / 0.959 |

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if max (abs (log2 (DEFacGroupI / DEFacGroupJ))) > 0.40
number Differentially Expressed: 217

method/AUC
edgeR_F / 0.964
DESeq2_stat / 0.917
bin_dev_F / 0.963

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if max (abs (log2 (DEFacGroupI / DEFacGroupJ))) > 0.20
number Differentially Expressed: 286

method/AUC
edgeR_F / 0.940
DESeq2_stat / 0.897
bin_dev_F / 0.945

Splatter simulated data with 3 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
ROC curves for edgeR, DESeq2, and bin_dev_F
define genes as Differentially Expressed if $\max (\text{abs} (\log2 (DEFacGroupI / DEFacGroupJ))) > 0.10$
number Differentially Expressed: 322