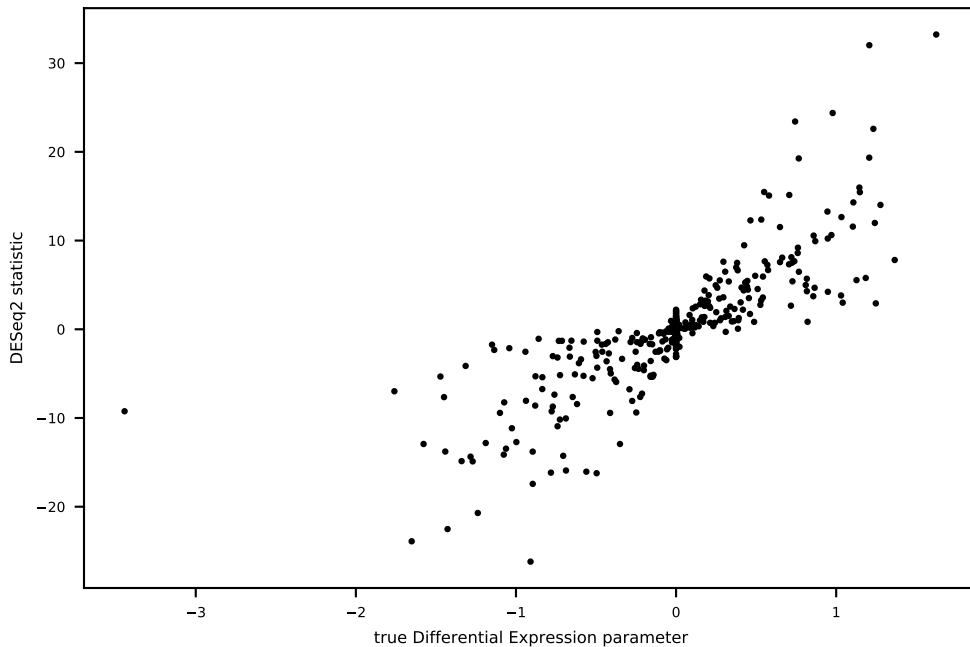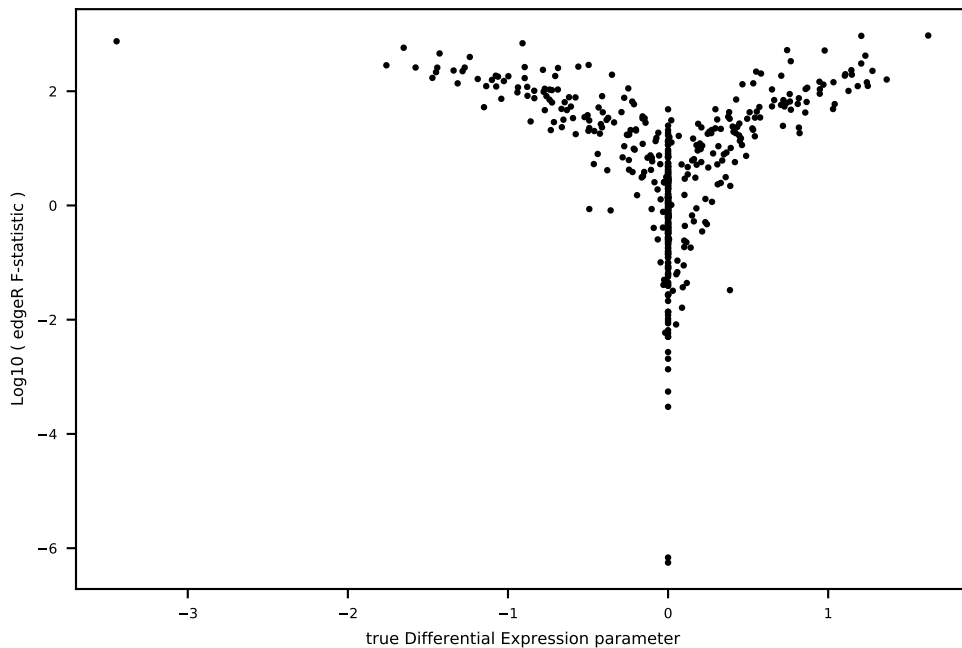Splatter simulated data with 2 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare DESeq2 statistic to true DE parameter

Splatter simulated data with 2 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
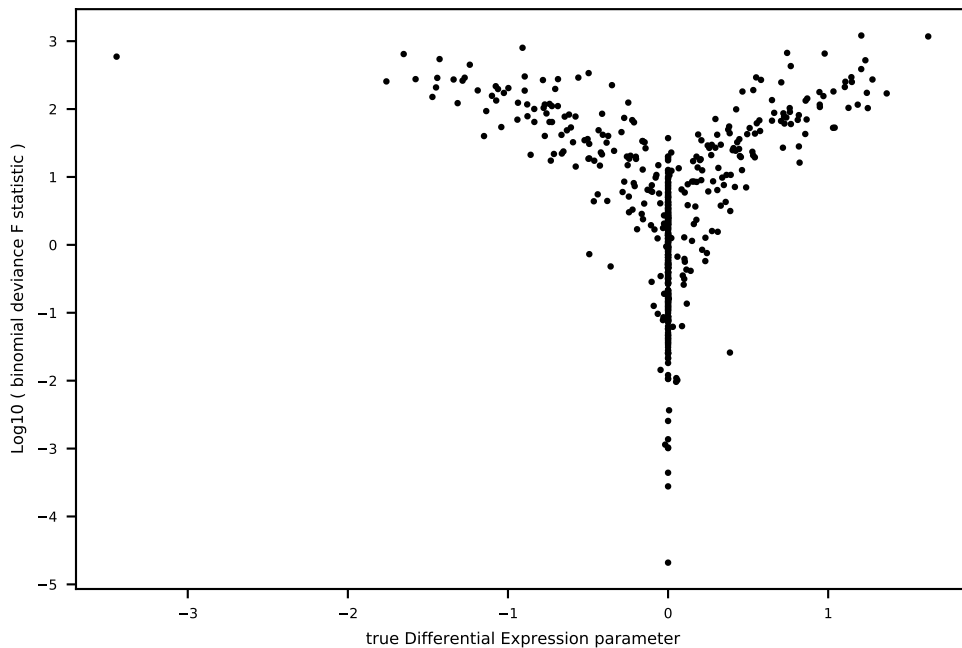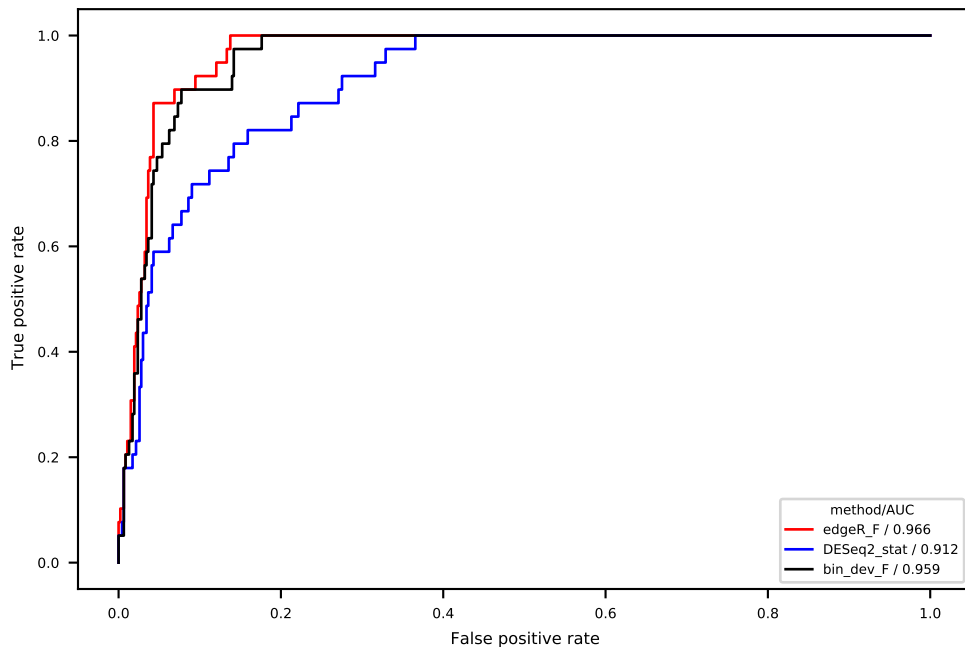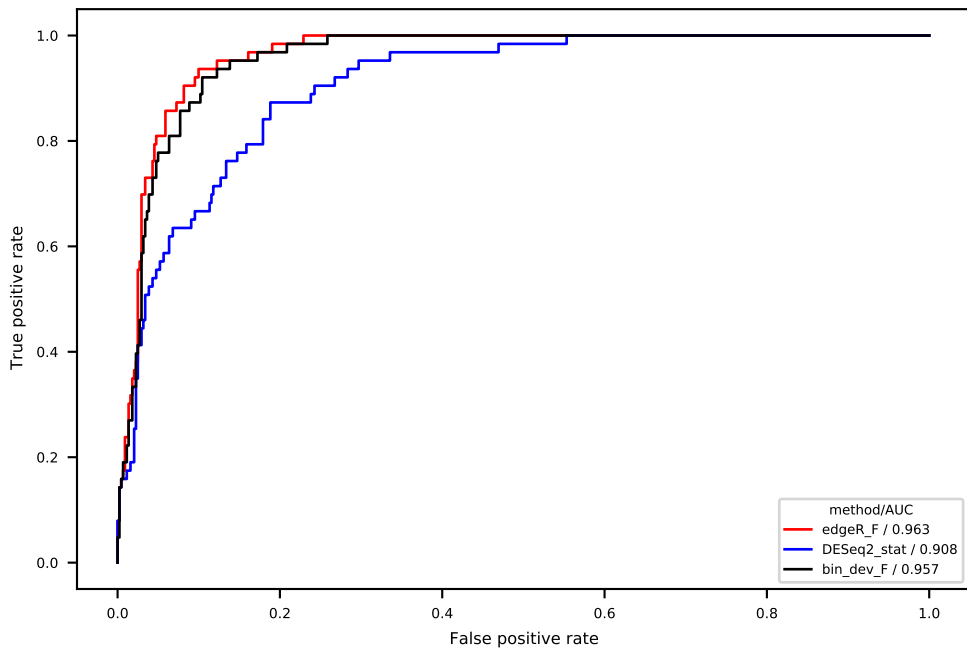
Splatter simulated data with 2 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare binomial deviance F-statistic to true DE parameter

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 1.00
number Differentially Expressed: 39

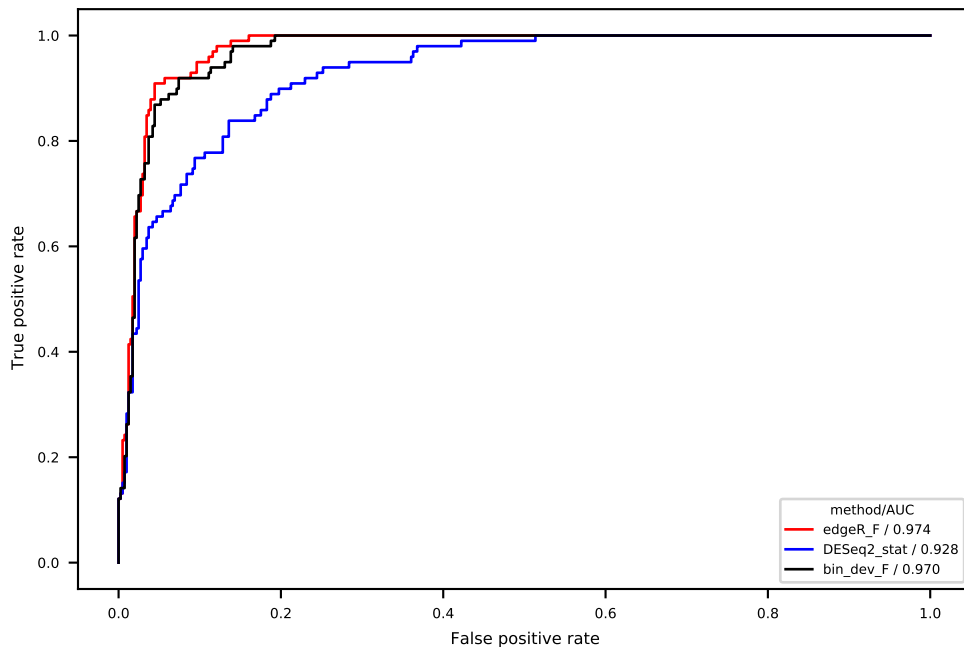| method/AUC |
| --- |
| edgeR_F / 0.966 |
| DESeq2_stat / 0.912 |
| bin_dev_F / 0.959 |

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 0.80
number Differentially Expressed: 63

method/AUC
edgeR_F / 0.963
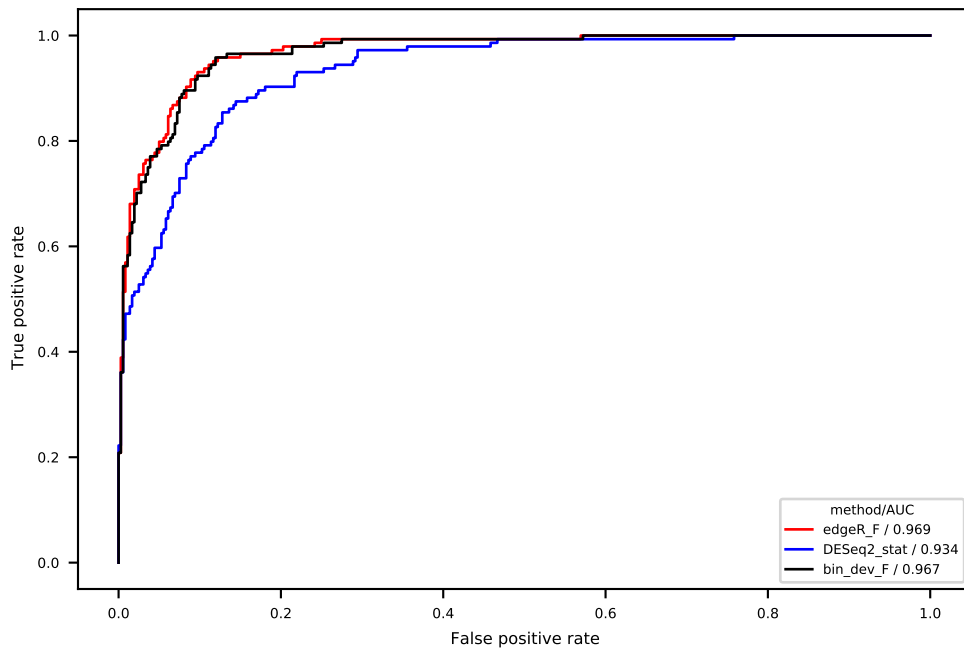DESeq2_stat / 0.908
bin_dev_F / 0.957

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 0.60
number Differentially Expressed: 99

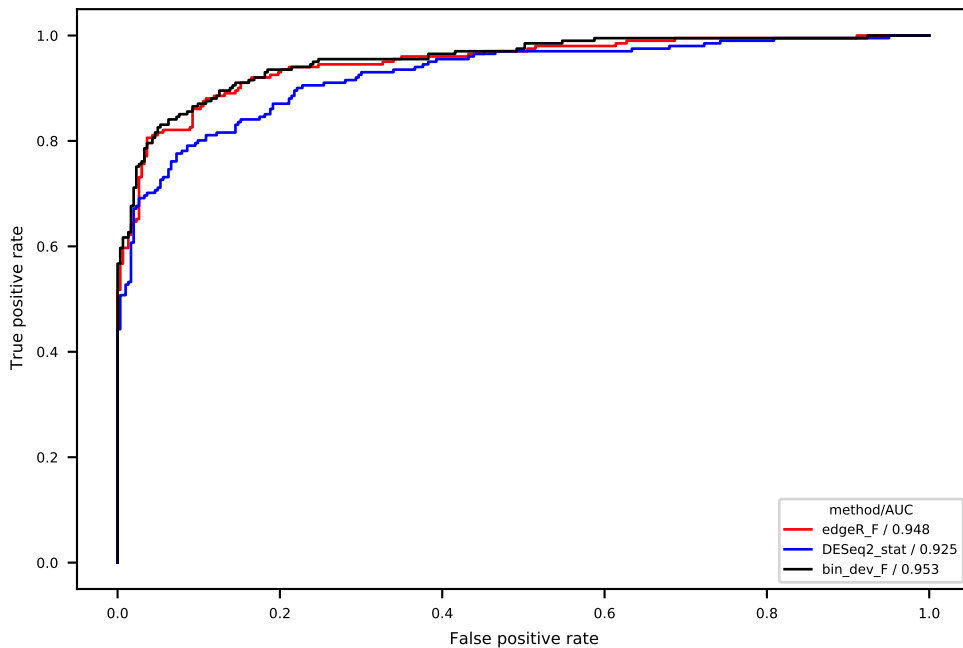| method/AUC |
| --- |
| edgeR_F / 0.974 |
| DESeq2_stat / 0.928 |
| bin_dev_F / 0.970 |

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 0.40
number Differentially Expressed: 144

method/AUC
edgeR_F / 0.969
DESeq2_stat / 0.934
bin_dev_F / 0.967

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 0.20
number Differentially Expressed: 201

method/AUC	
edgeR_F / 0.948	
DESeq2_stat / 0.925	
bin_dev_F / 0.953	

Splatter simulated data with 2 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 abs (log2 (DEFacGroup2 / DEFacGroup1)) > 0.10
number Differentially Expressed: 237

method/AUC
edgeR_F / 0.922
DESeq2_stat / 0.918
bin_dev_F / 0.936