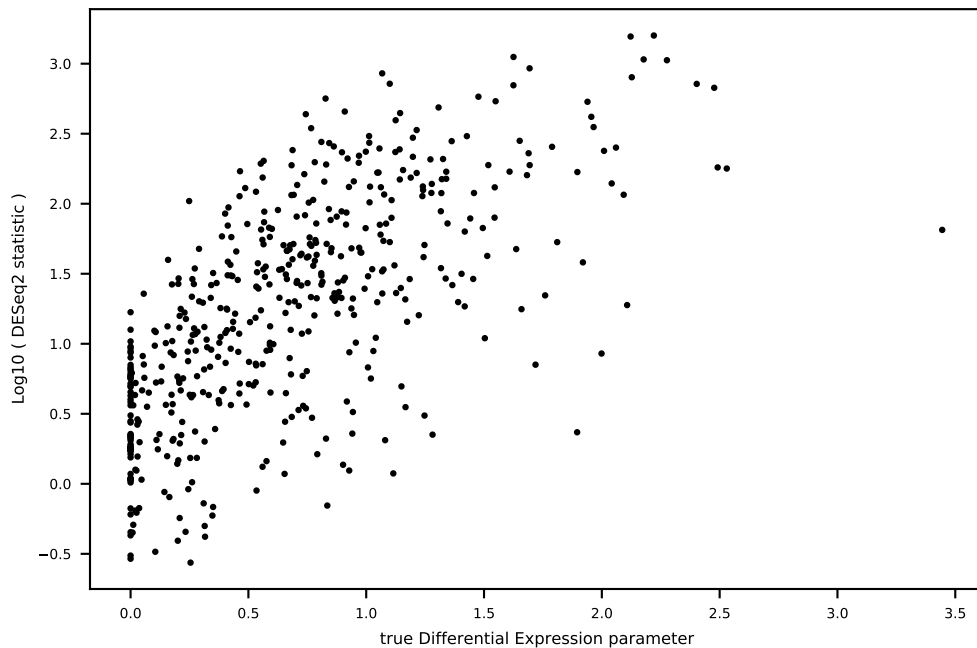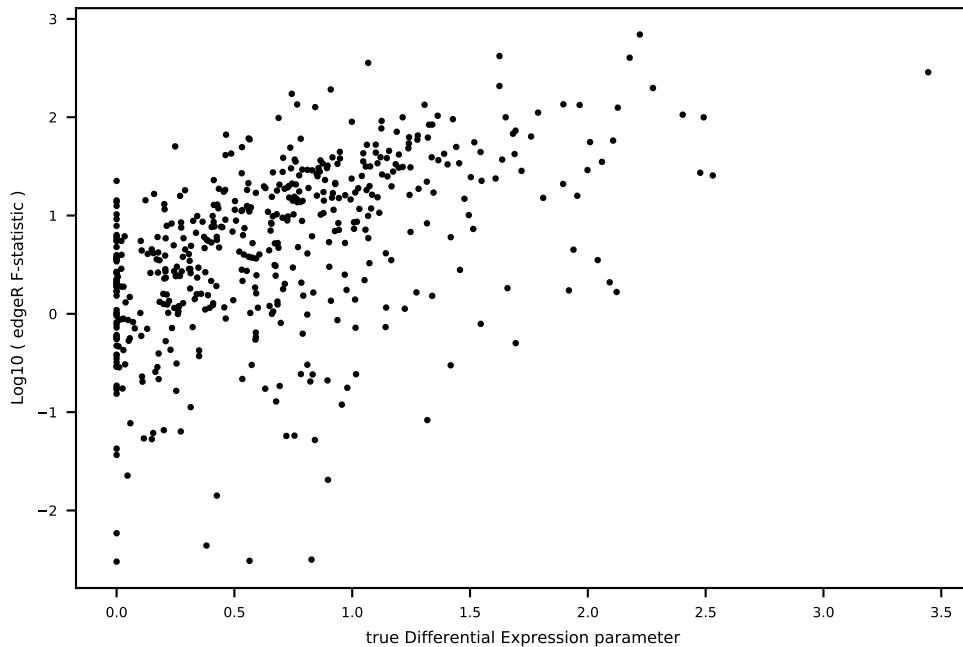Splatter simulated data with 5 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare DESeq2 statistic to true DE parameter

Splatter simulated data with 5 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
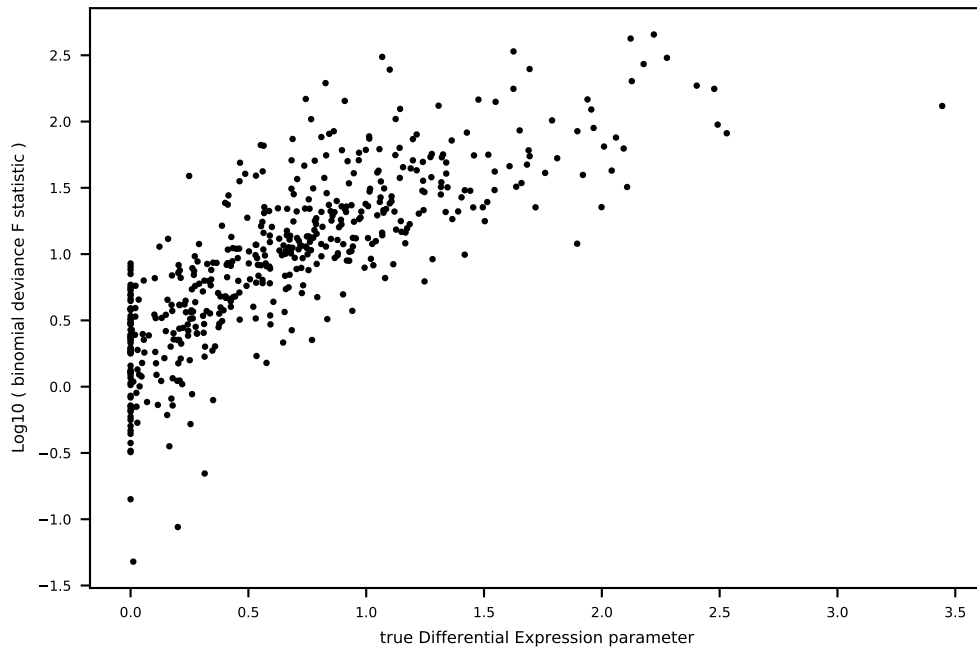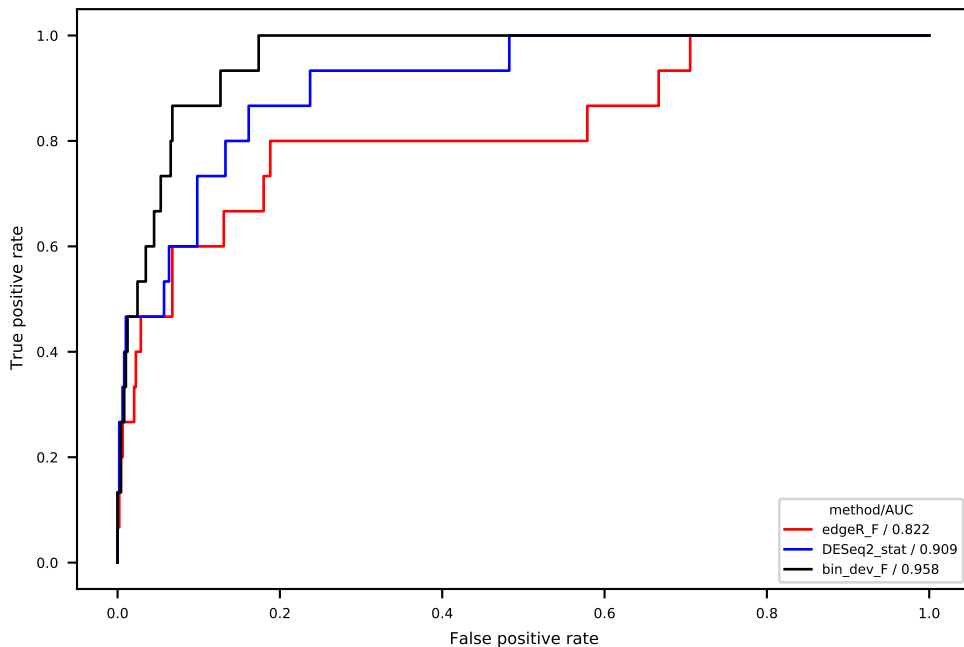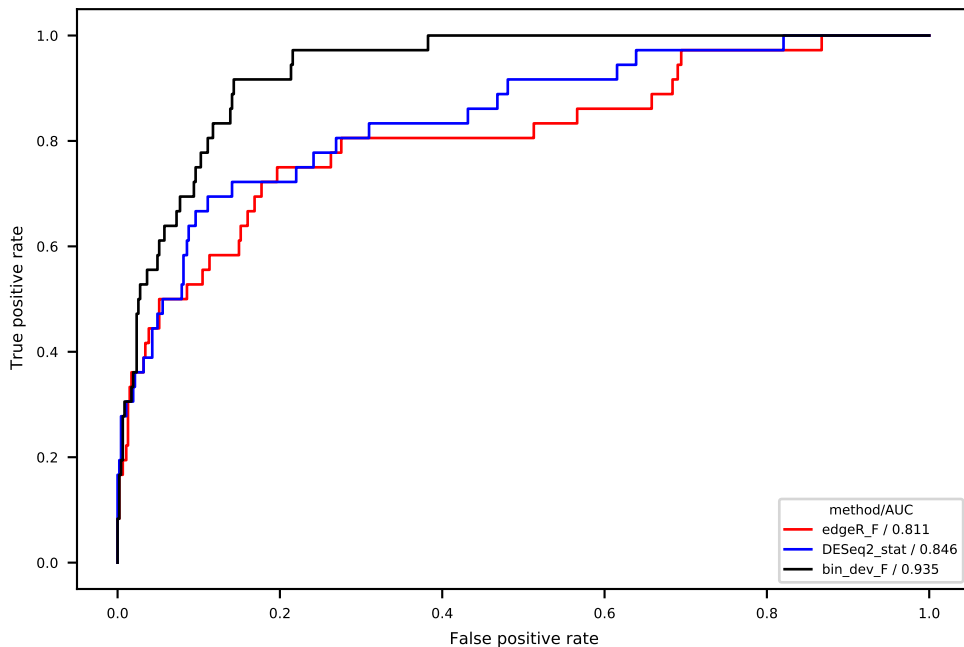
Splatter simulated data with 5 clusters - data set 1
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data
compare binomial deviance F-statistic to true DE parameter

Splatter simulated data with 5 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))) > 2.00
number Differentially Expressed: 15

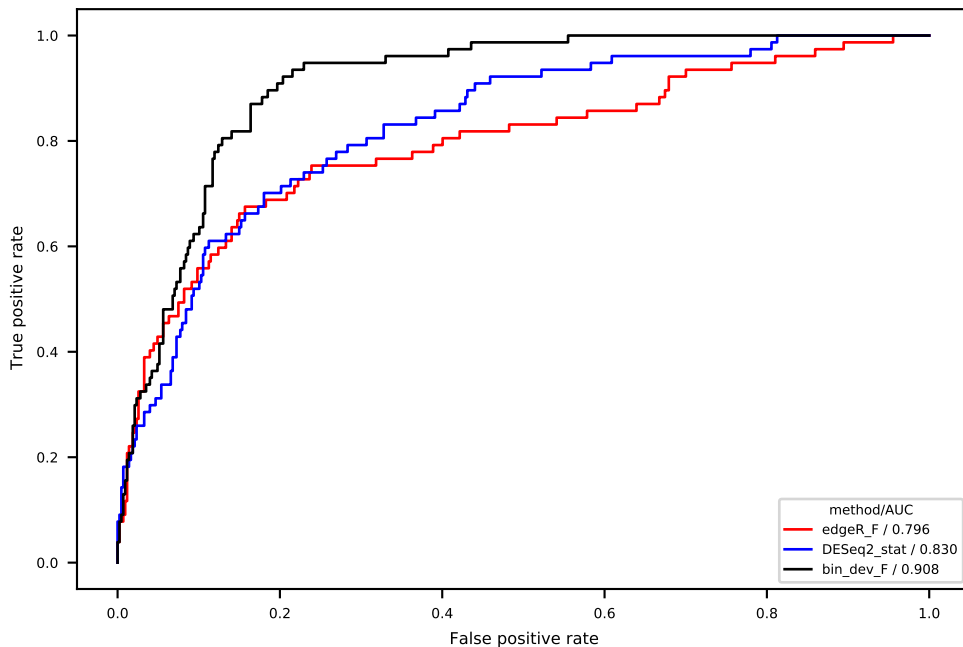| method/AUC |
| --- |
| edgeR_F / 0.822 |
| DESeq2_stat / 0.909 |
| bin_dev_F / 0.958 |

Splatter simulated data with 5 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))) > 1.60
number Differentially Expressed: 36

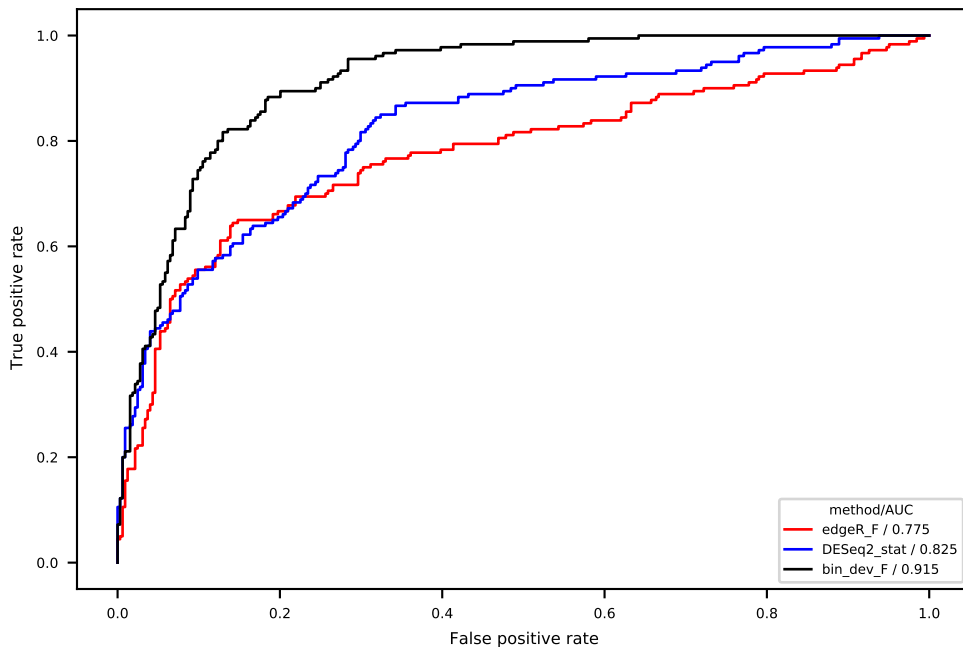| method/AUC |
| --- |
| edgeR_F / 0.811 |
| DESeq2_stat / 0.846 |
| bin_dev_F / 0.935 |

Splatter simulated data with 5 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))) > 1.20
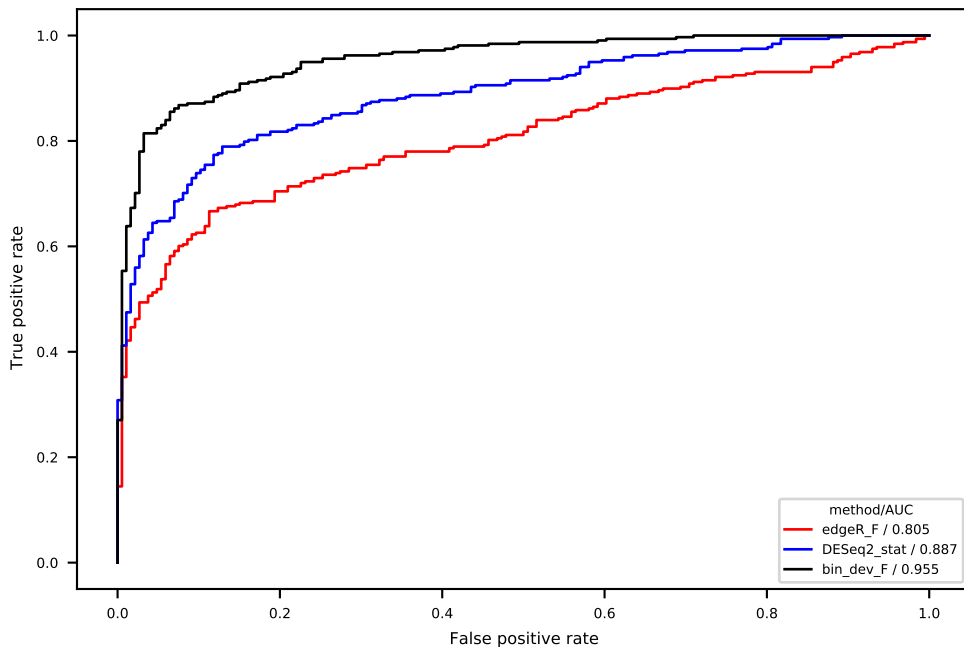number Differentially Expressed: 77

Splatter simulated data with 5 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: 180

Splatter simulated data with 5 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: 318

method/AUC	
edgeR_F / 0.805	
DESeq2_stat / 0.887	
bin_dev_F / 0.955	

Splatter simulated data with 5 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: 390

method/AUC
edgeR_F / 0.789
DESeq2_stat / 0.876
bin_dev_F / 0.924