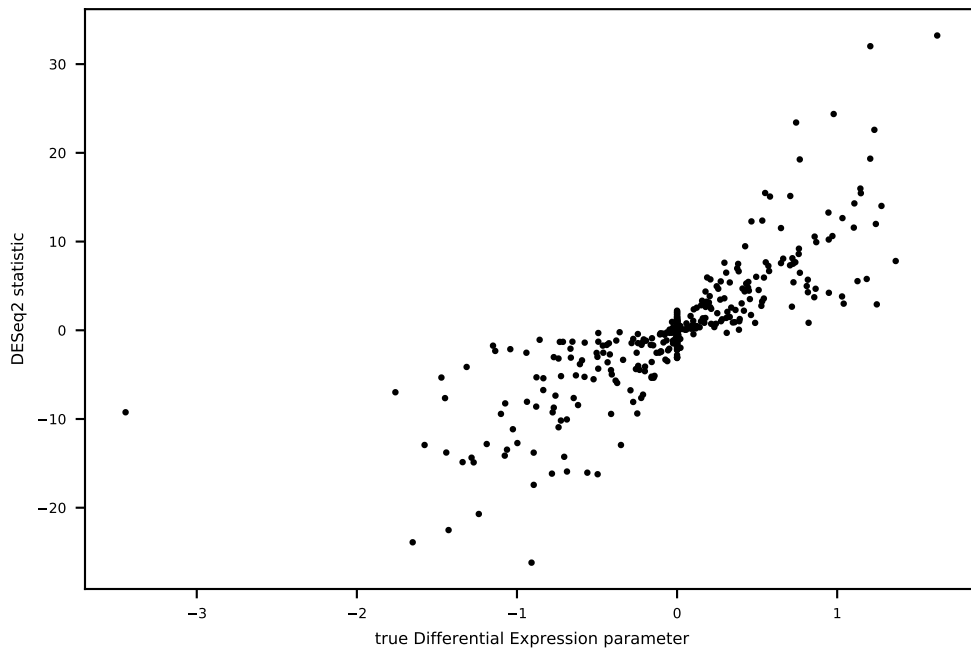
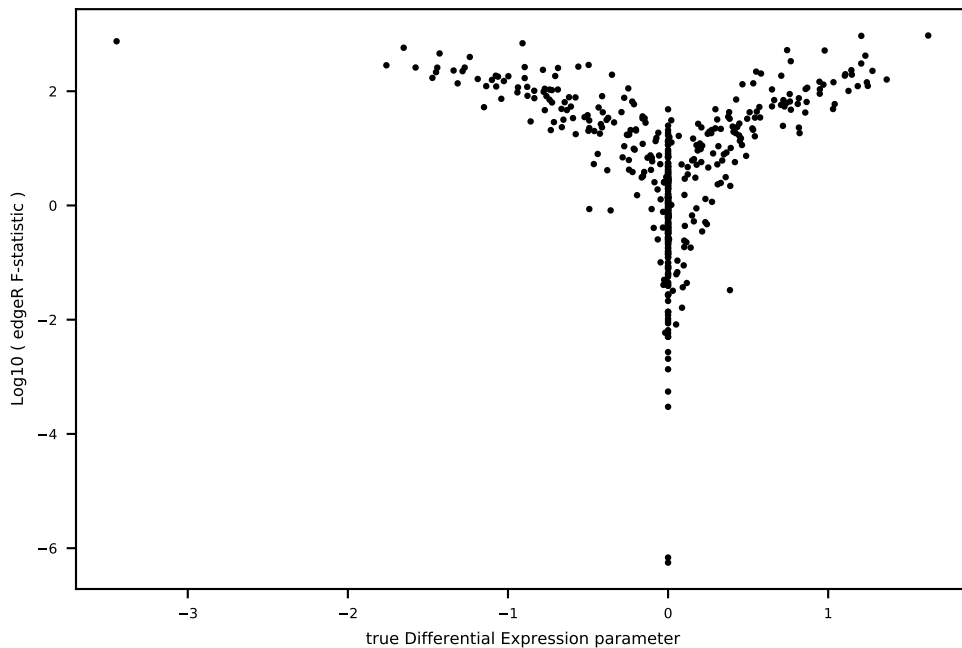


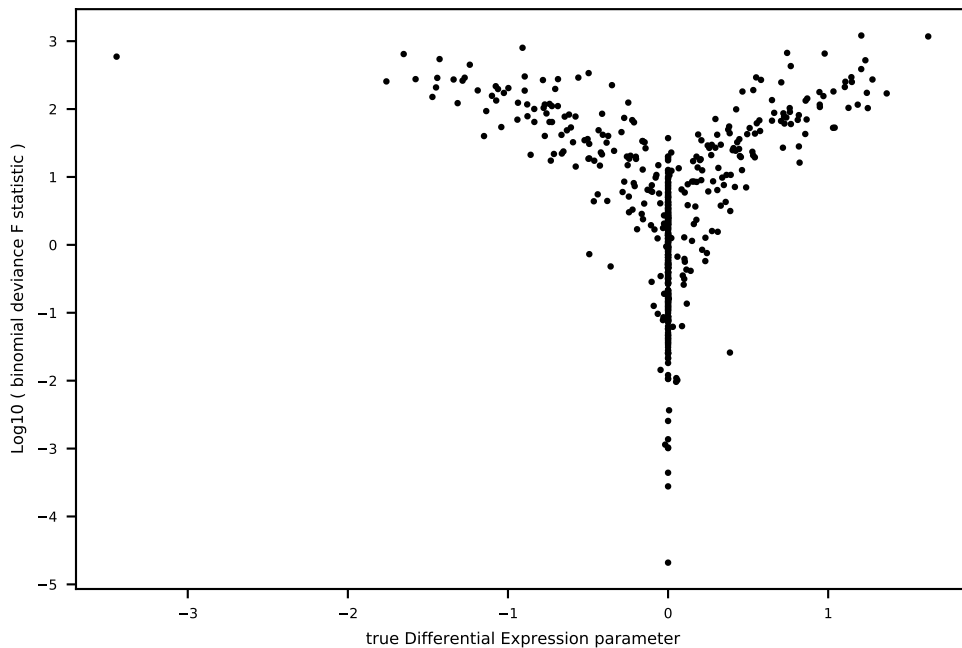
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
compare DESeq2 statistic to true DE parameter



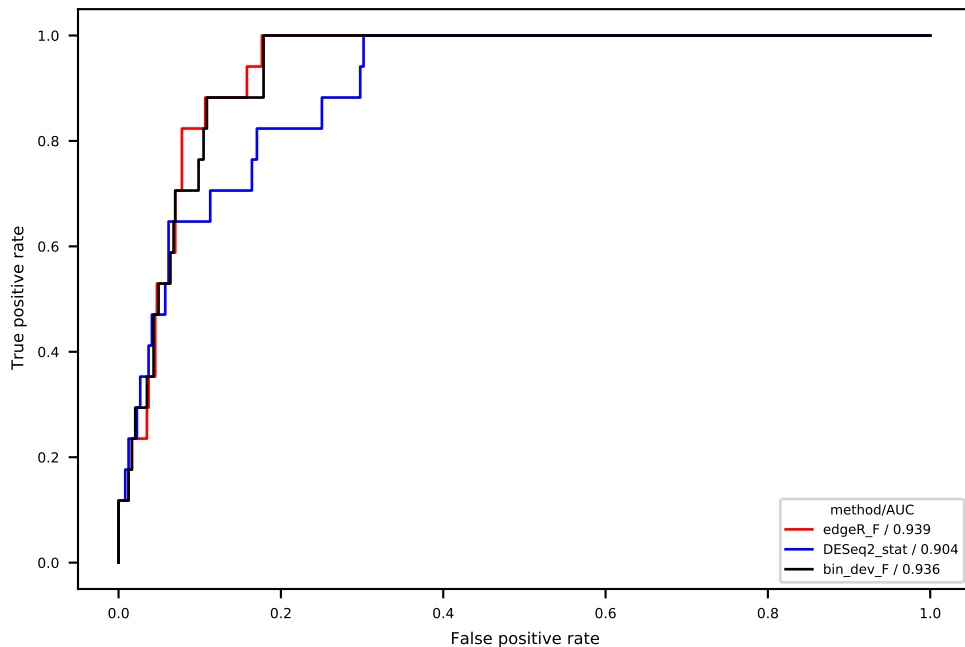
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
compare edgeR F-statistic to true DE parameter



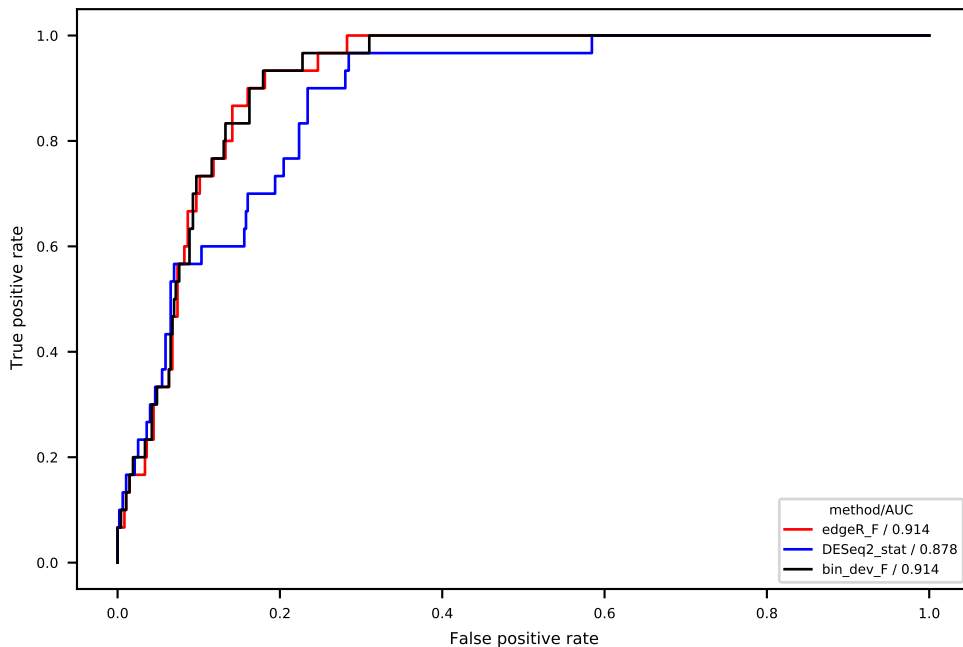
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
compare binomial deviance F-statistic to true DE parameter



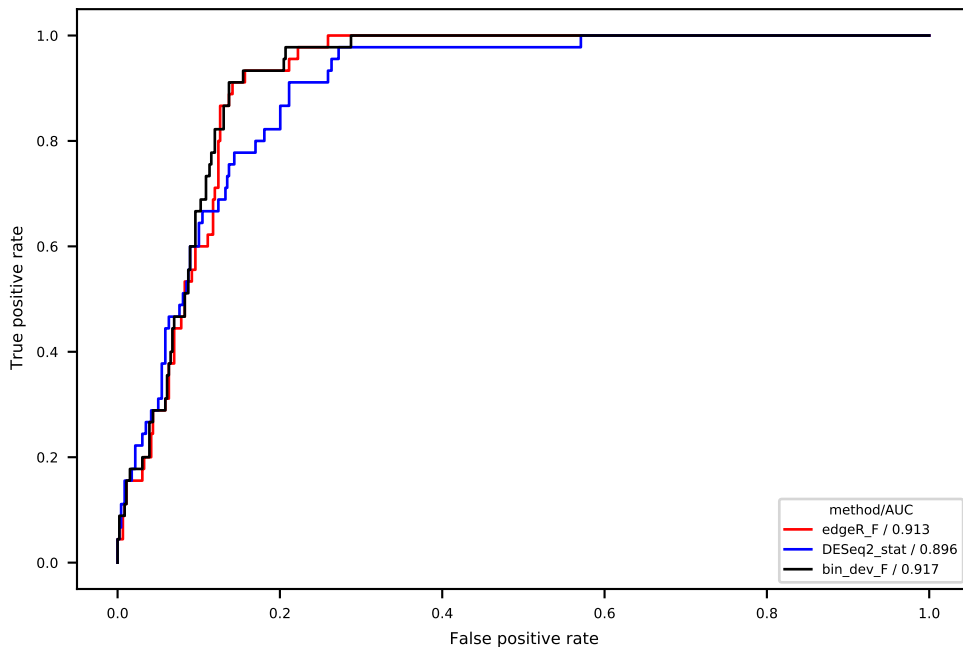
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
ROC curves for edgeR, DESeq2, and bin\_dev\_F  
define genes as Differentially Expressed if  $|\log_2(\text{DEFacGroup2} / \text{DEFacGroup1})| > 1.00$   
number Differentially Expressed: 17



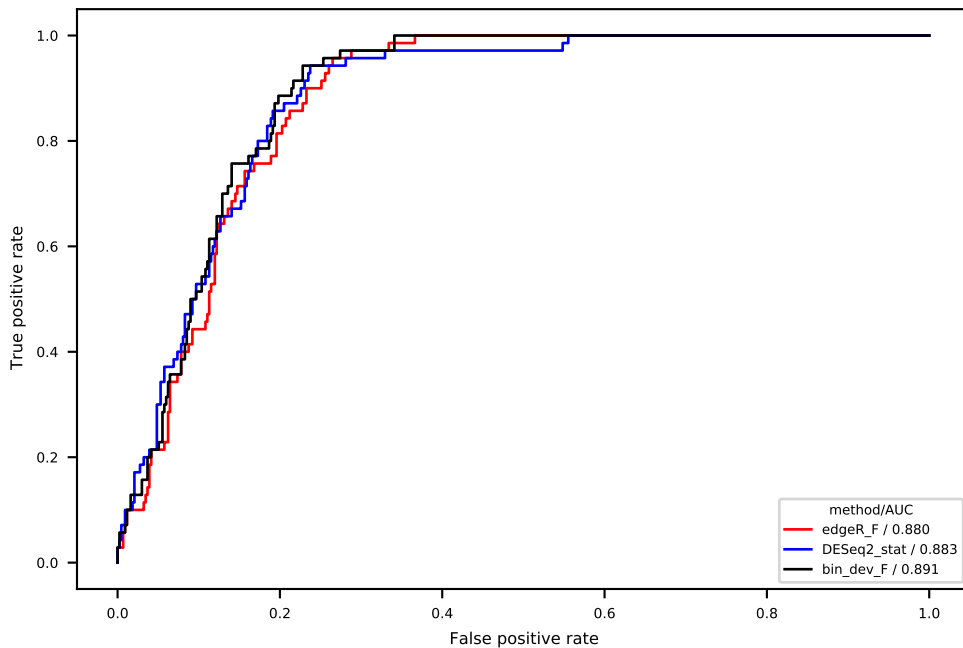
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
ROC curves for edgeR, DESeq2, and bin\_dev\_F  
define genes as Differentially Expressed if  $|\log_2(\text{DEFacGroup2} / \text{DEFacGroup1})| > 0.80$   
number Differentially Expressed: 30



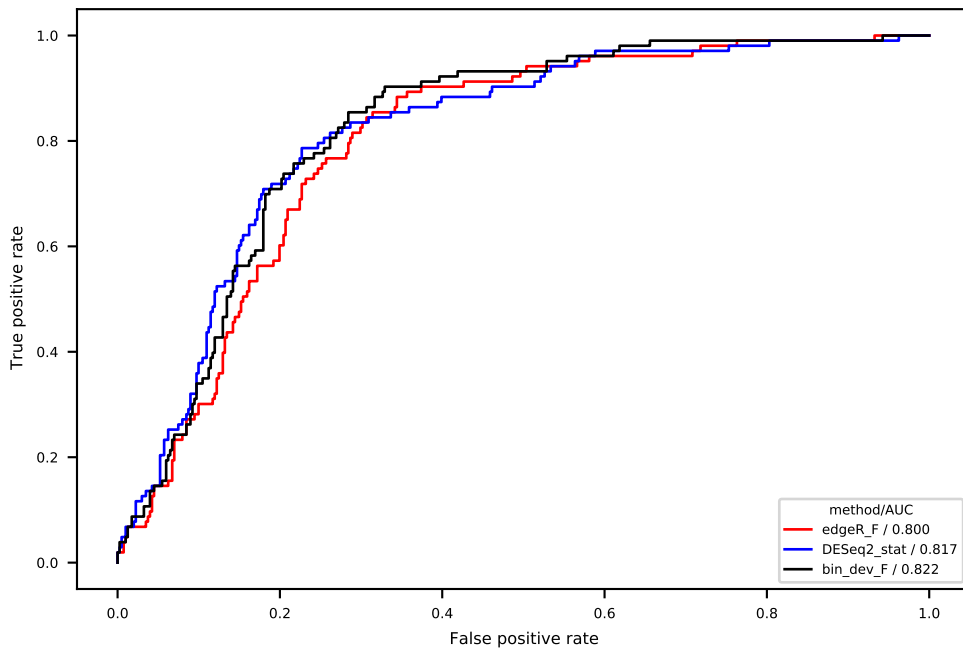
Splatter simulated data set 1  
parameters derived from 504 most highly expressed genes - Kang Lupus B cell data  
ROC curves for edgeR, DESeq2, and bin\_dev\_F  
define genes as Differentially Expressed if  $|\log_2(\text{DEFacGroup2} / \text{DEFacGroup1})| > 0.60$   
number Differentially Expressed: 45



Splatter simulated 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  $|\log_2(\text{DEFacGroup2} / \text{DEFacGroup1})| > 0.40$   
number Differentially Expressed: 70



Splatter simulated 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  $|\log_2(\text{DEFacGroup2} / \text{DEFacGroup1})| > 0.20$   
number Differentially Expressed: 103





Splatter simulated 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  $|\text{abs}(\log_2(\text{DEFacGroup2} / \text{DEFacGroup1}))| > 0.10$   
number Differentially Expressed: 125

