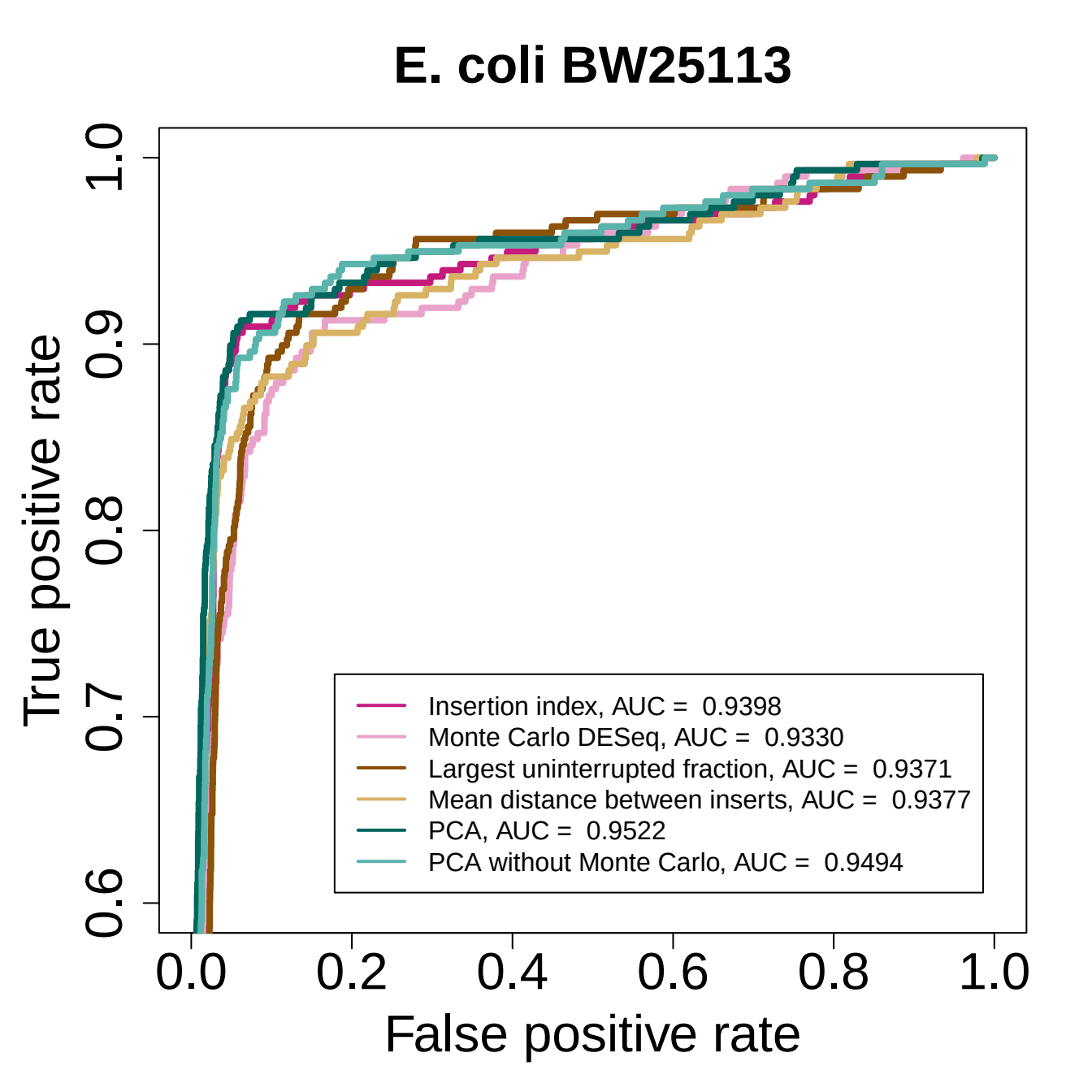
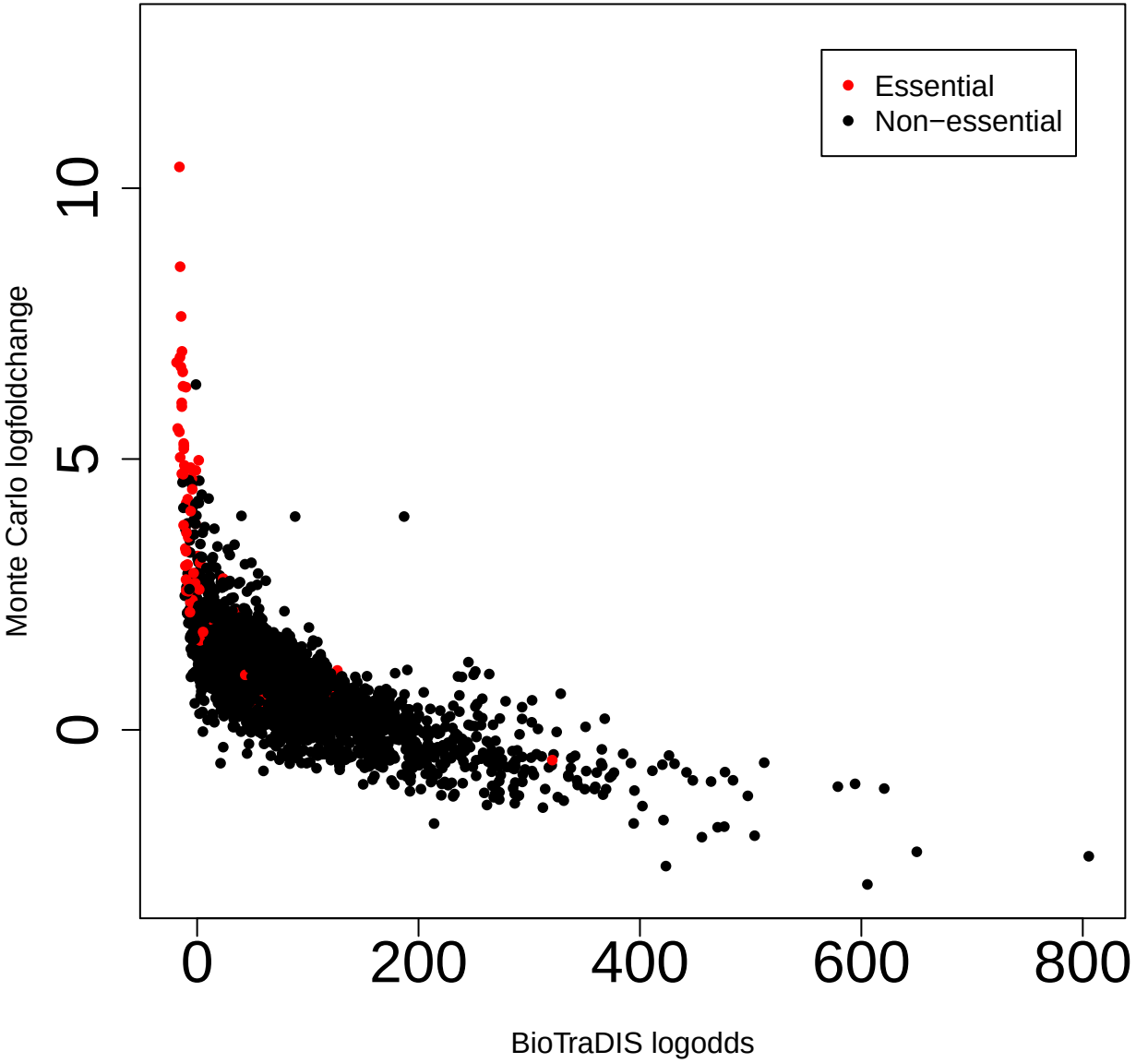
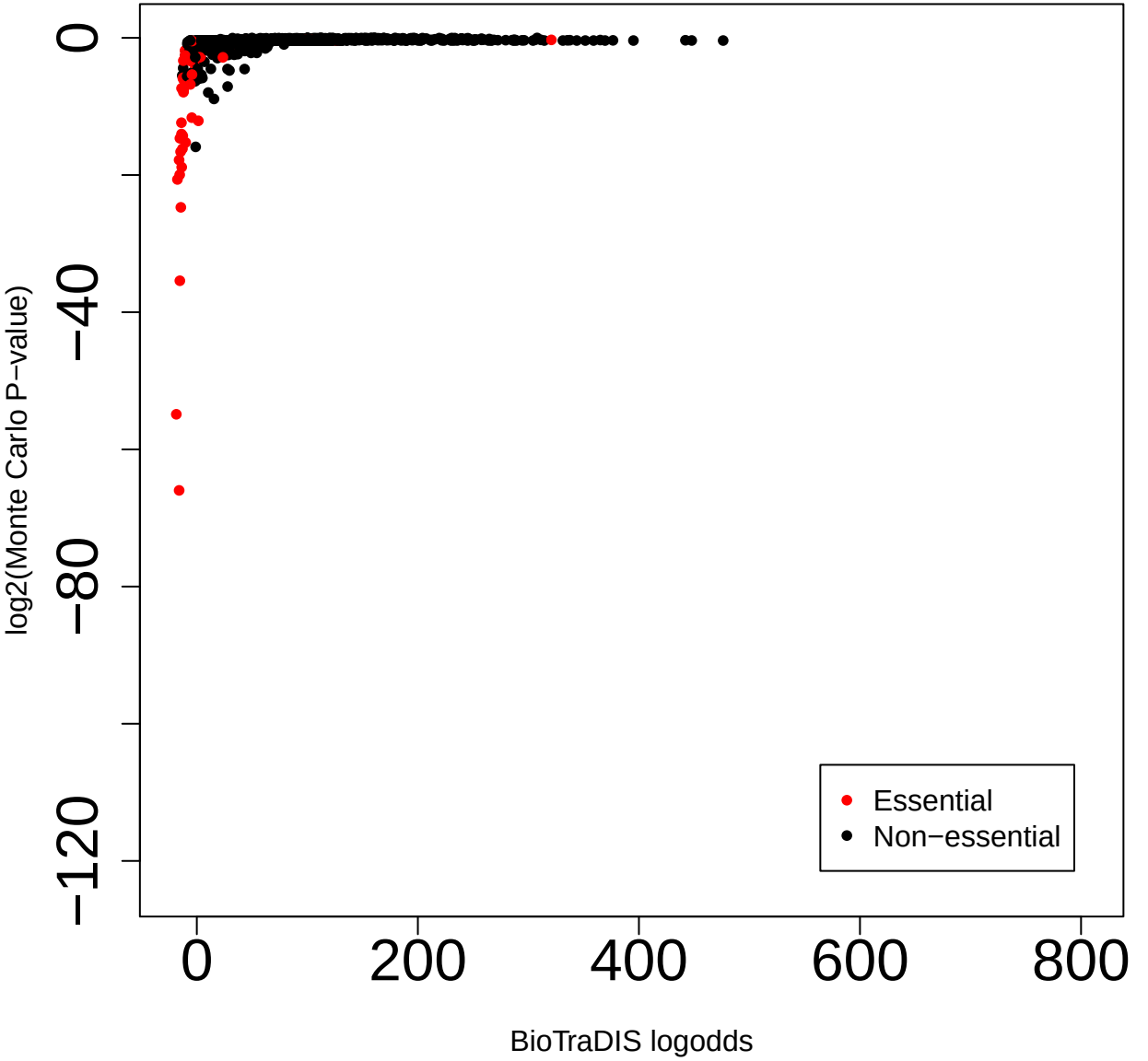
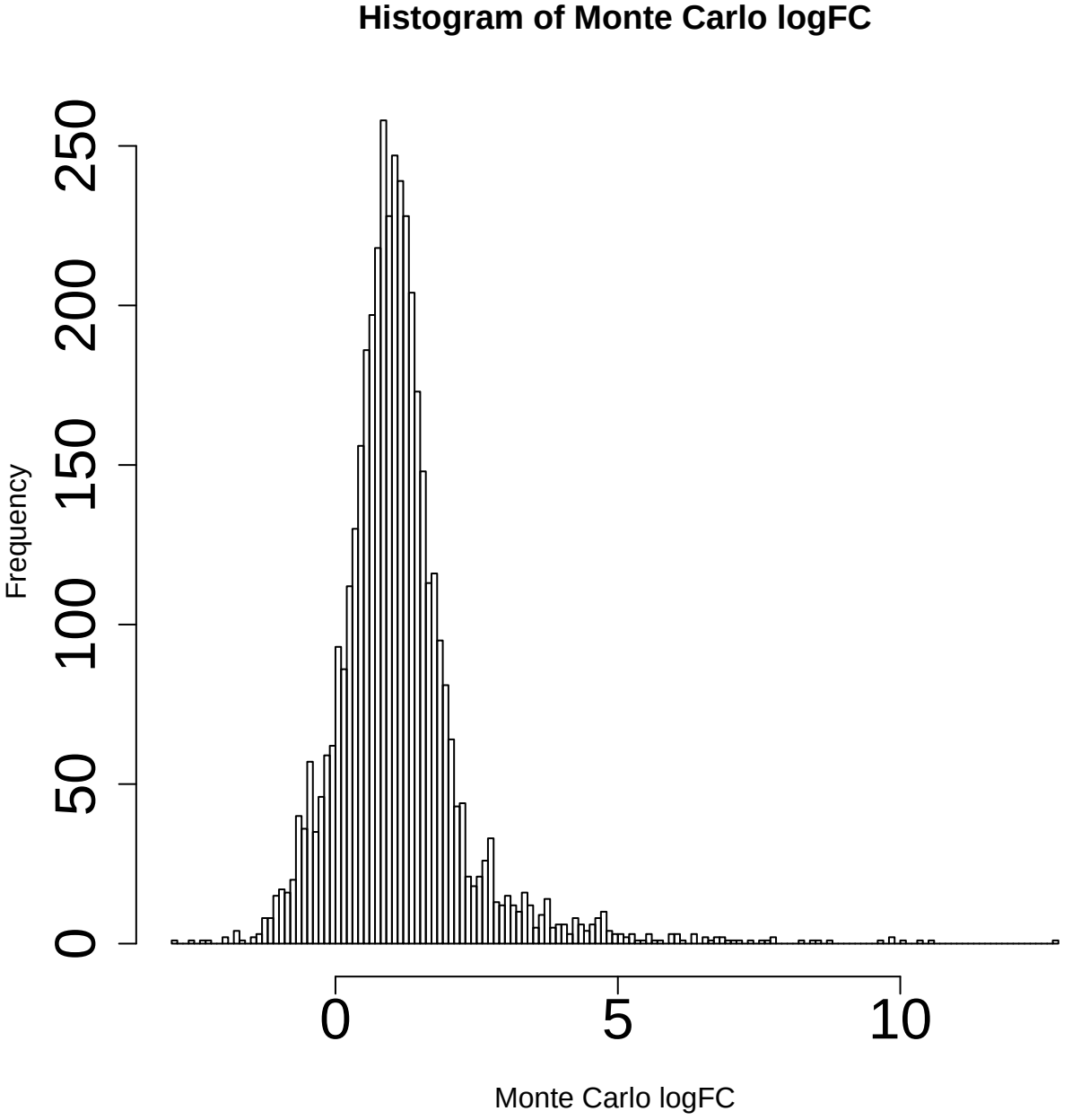
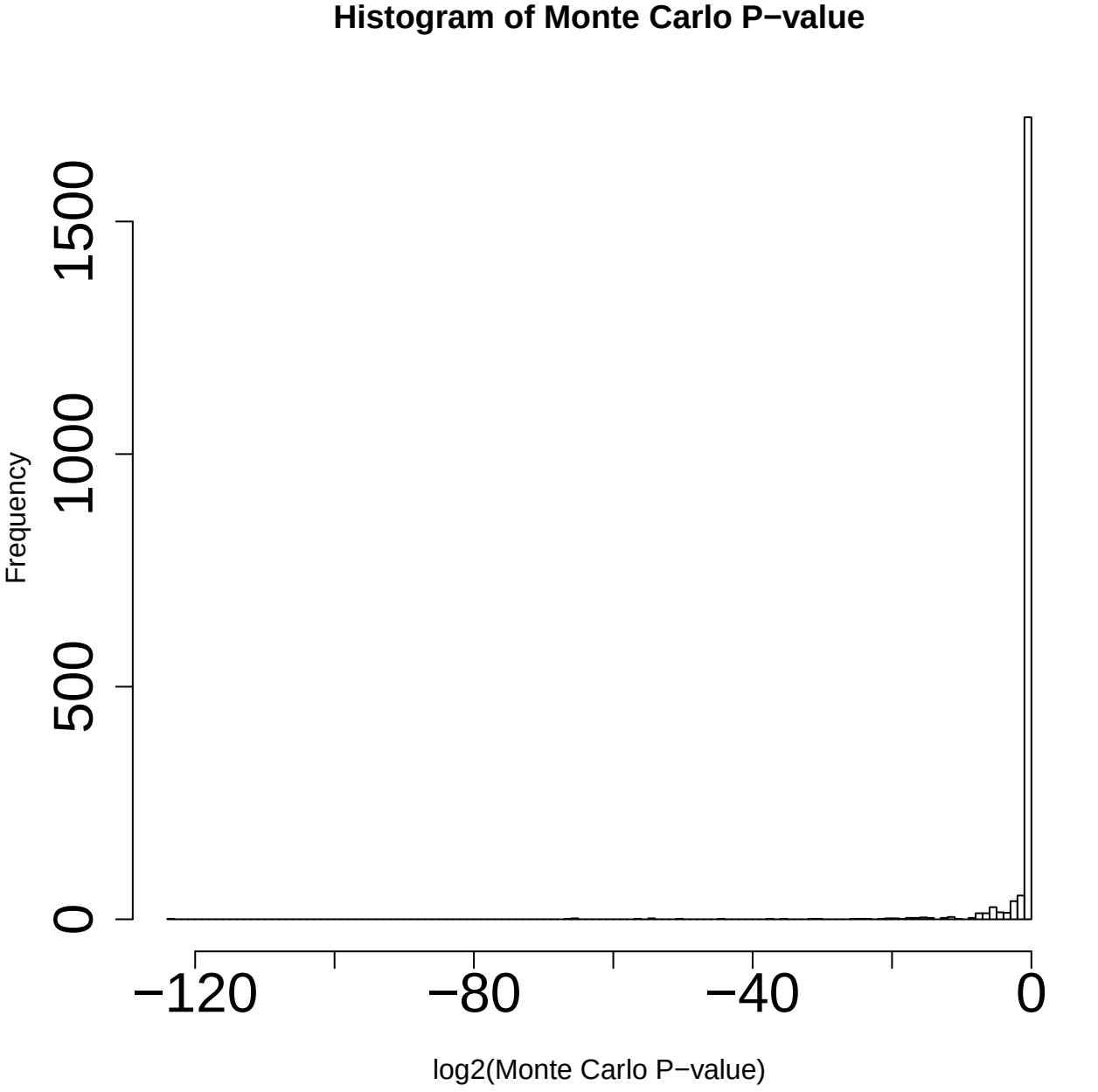
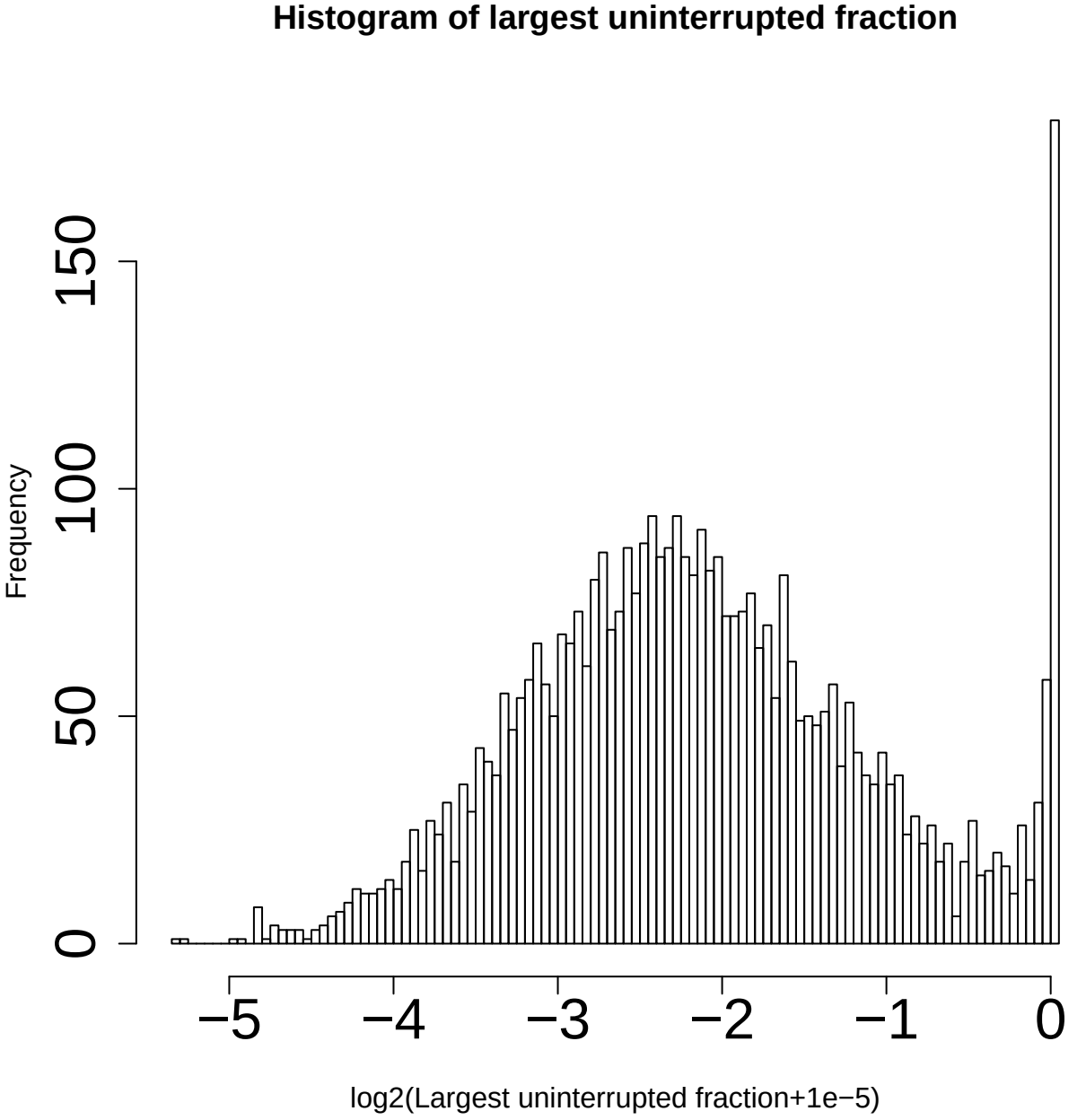

E. coli BW25113
True positive rate
False positive rate
0.6
0.7
0.8
0.9
1.0
0.0
0.2
0.4
0.6
0.8
1.0
Insertion index, AUC = 0.9398
Monte Carlo DESeq, AUC = 0.9330
Largest uninterrupted fraction, AUC = 0.9371
Mean distance between inserts, AUC = 0.9377
PCA, AUC = 0.9522
PCA without Monte Carlo, AUC = 0.9494

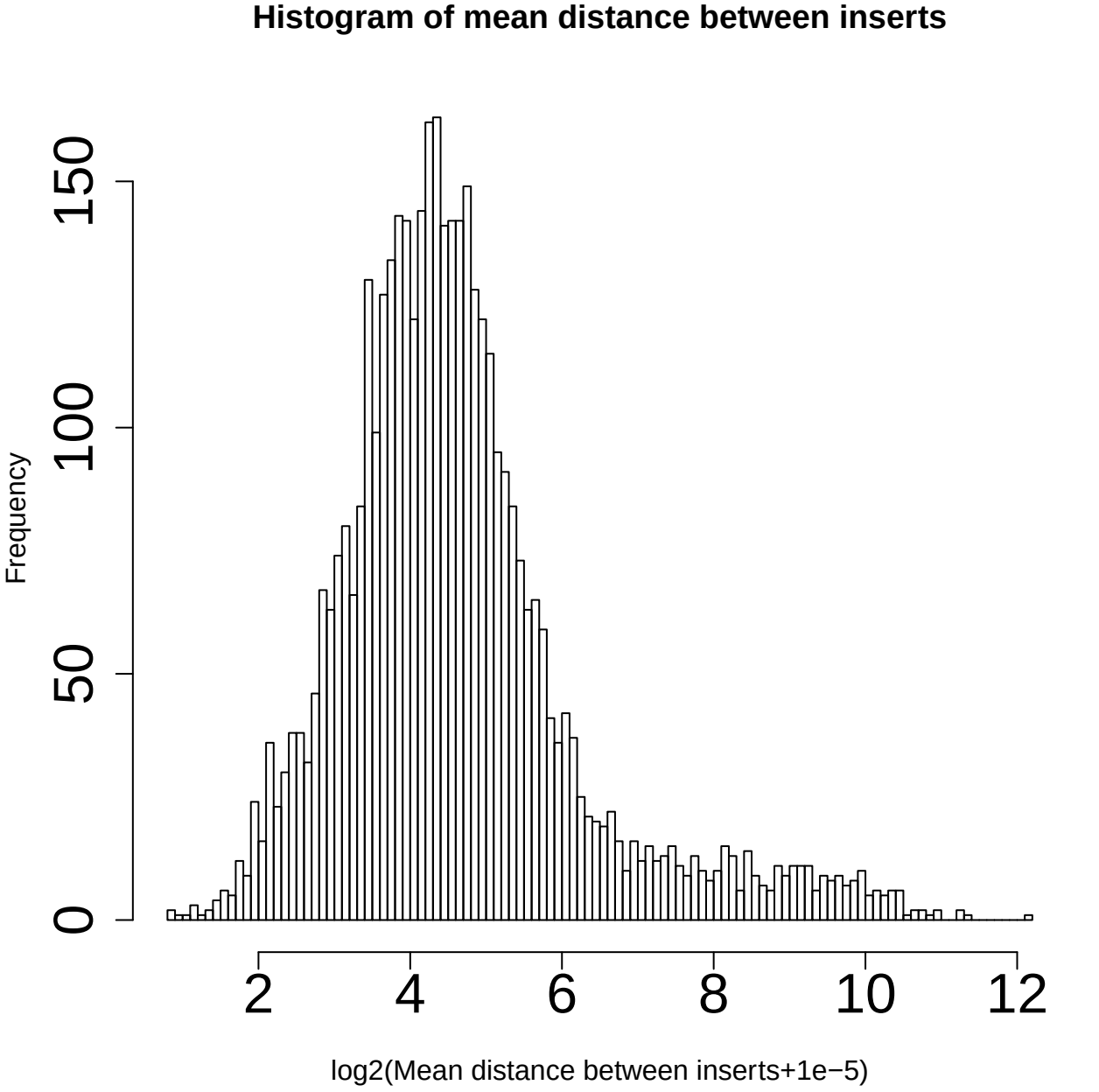

Essential
Non−essential
Monte Carlo logfoldchange
BioTraDIS logodds
0
5
10
0
200
400
600
800

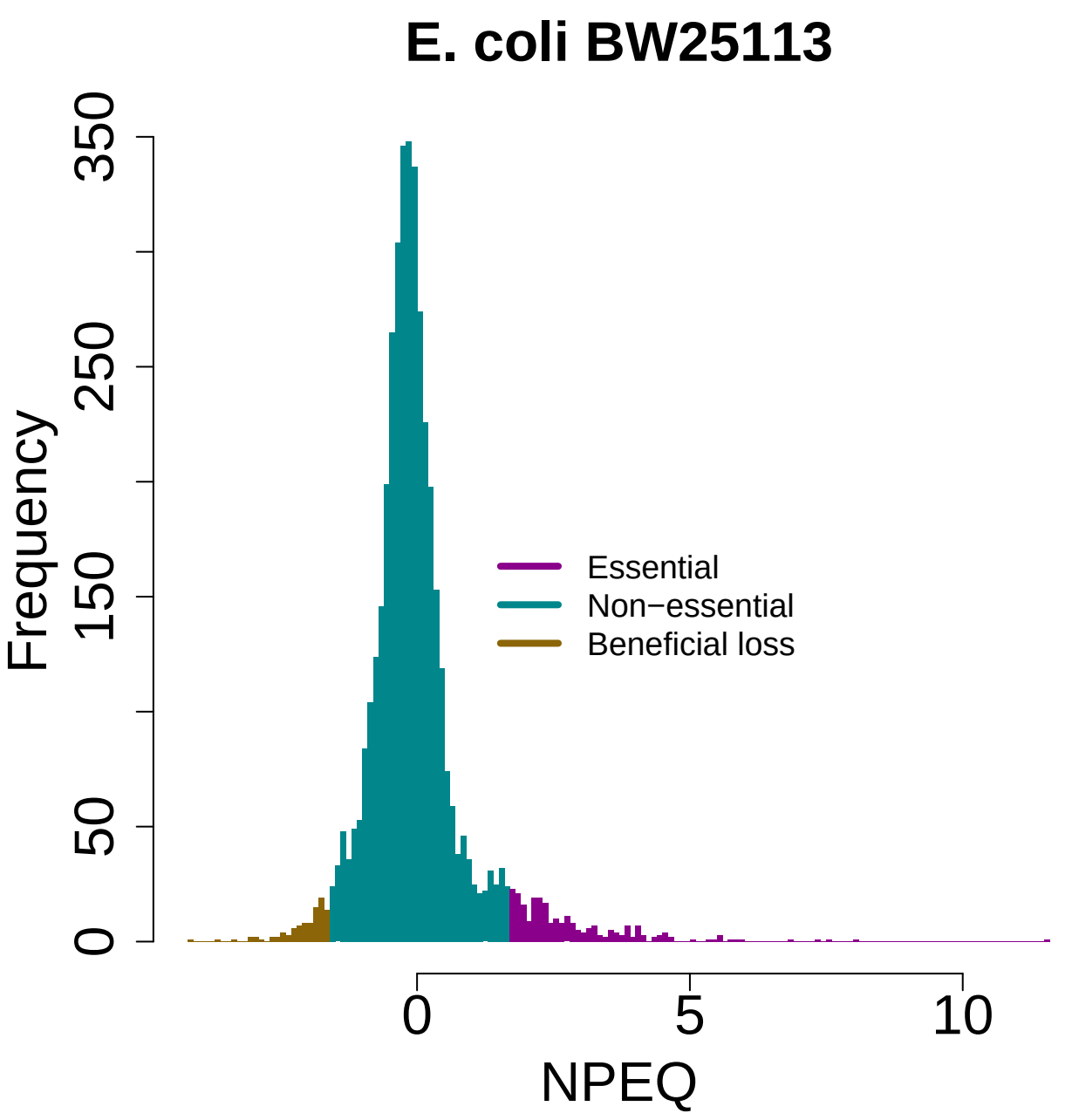

log2(Monte Carlo P−value)
0
−40
−80
−120
0
200
400
600
800
BioTraDIS logodds
Essential
Non−essential


Histogram of Monte Carlo logFC
Frequency
0
50
100
150
200
250
0
5
10
Monte Carlo logFC


Histogram of Monte Carlo P−value
Frequency
0
500
1000
1500
−120
−80
−40
0
log2(Monte Carlo P−value)


Histogram of largest uninterrupted fraction
Frequency
0
50
100
150
−5
−4
−3
−2
−1
0
log2(Largest uninterrupted fraction+1e−5)


Histogram of mean distance between inserts
Frequency
0
50
100
150
2
4
6
8
10
12
log2(Mean distance between inserts+1e−5)


E. coli BW25113
Frequency
0
50
150
250
350
Essential
Non−essential
Beneficial loss
0
5
10
NPEQ