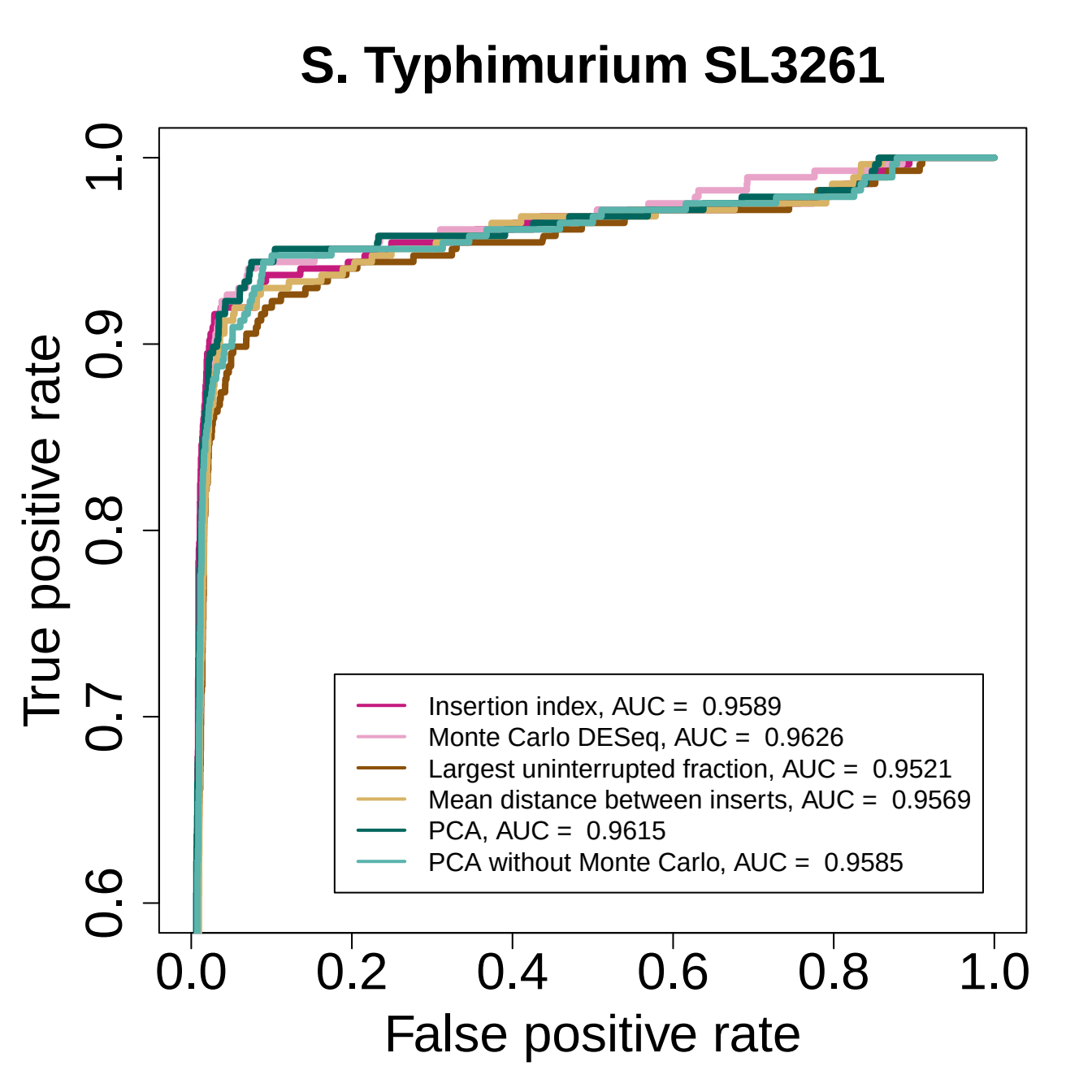
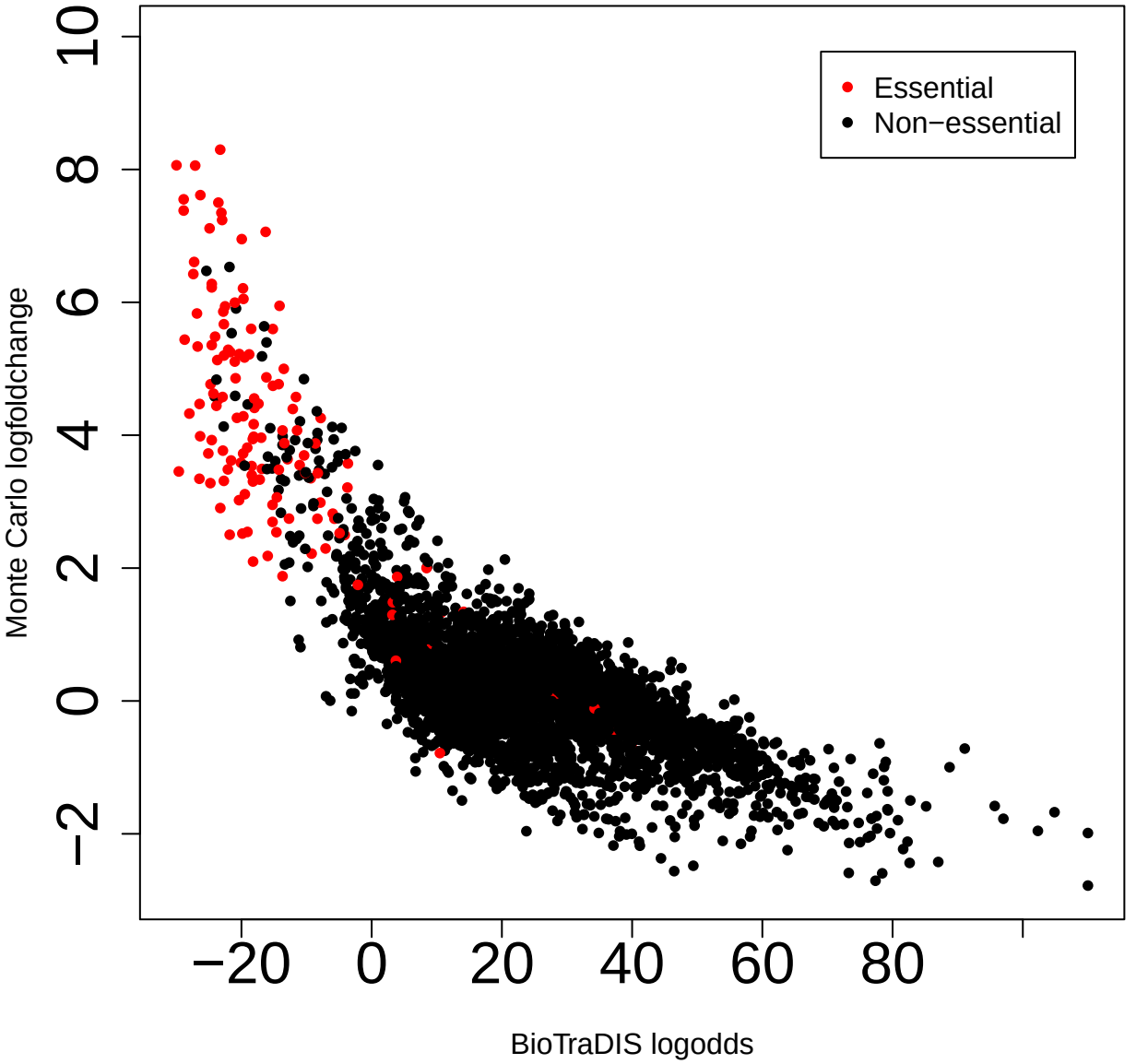
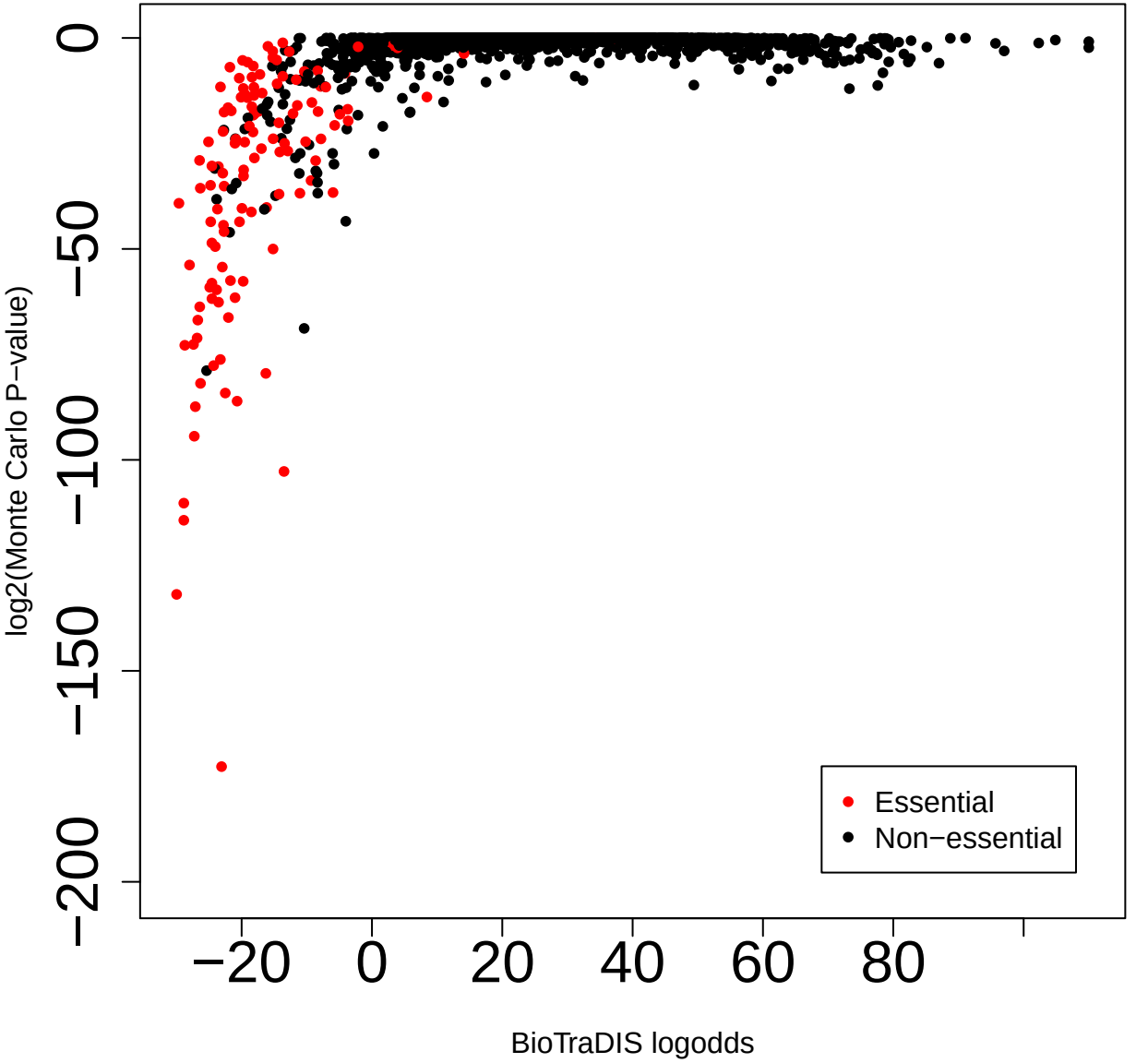
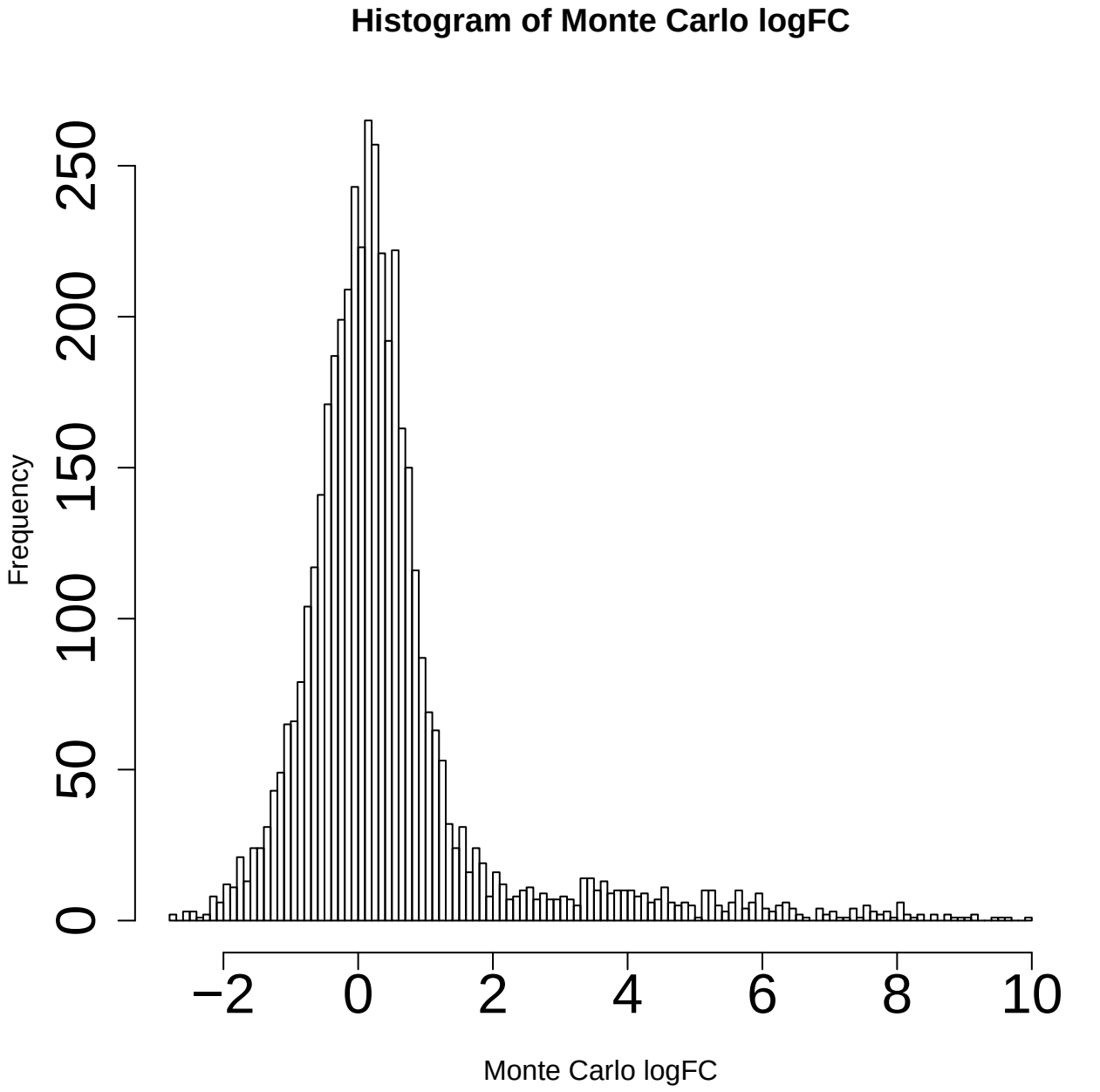
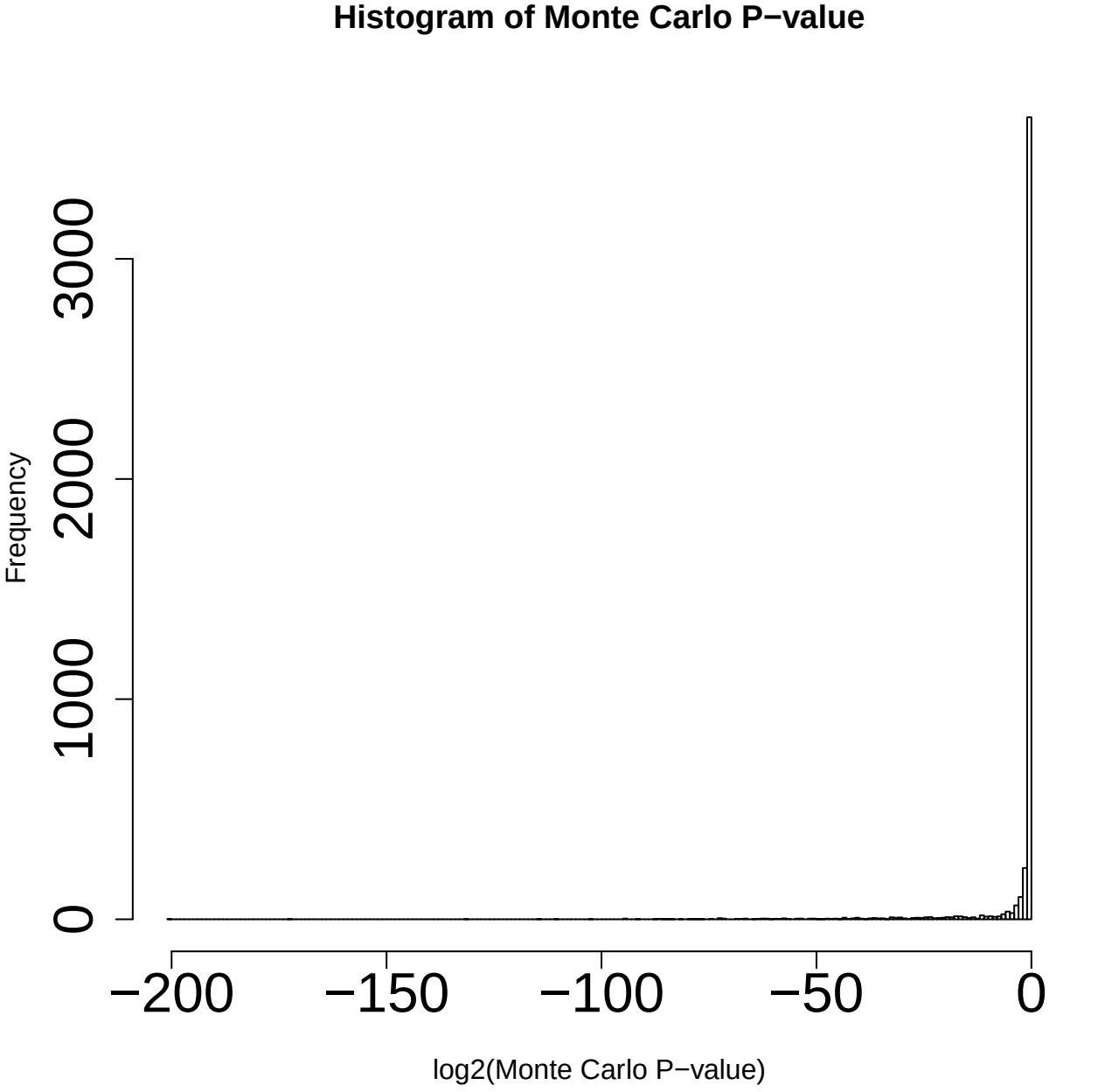
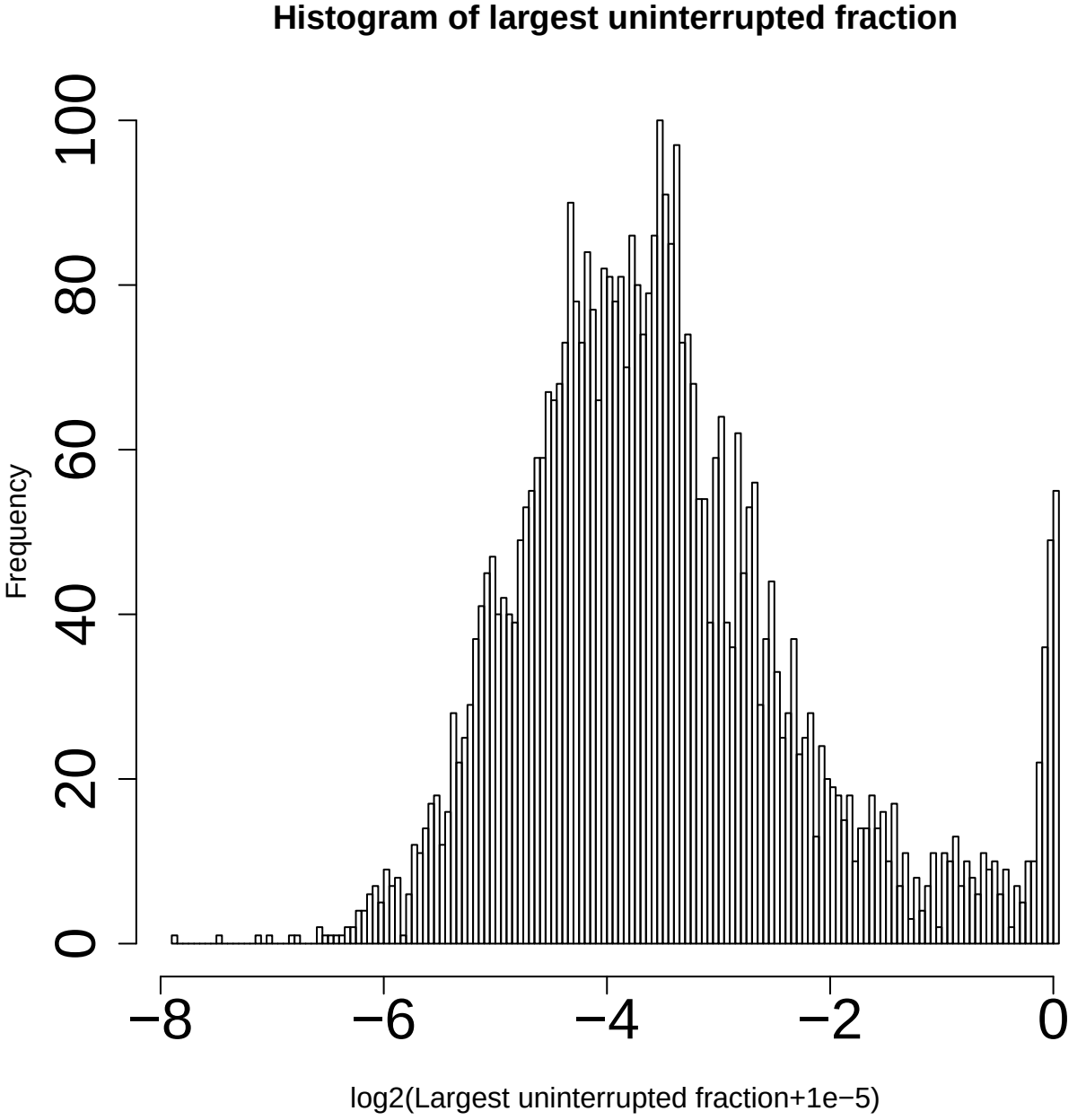

S. Typhimurium SL3261
True positive rate
False positive rate
0.6
0.7
0.8
0.9
1.0
0.0
0.2
0.4
0.6
0.8
1.0
Insertion index, AUC = 0.9589
Monte Carlo DESeq, AUC = 0.9626
Largest uninterrupted fraction, AUC = 0.9521
Mean distance between inserts, AUC = 0.9569
PCA, AUC = 0.9615
PCA without Monte Carlo, AUC = 0.9585

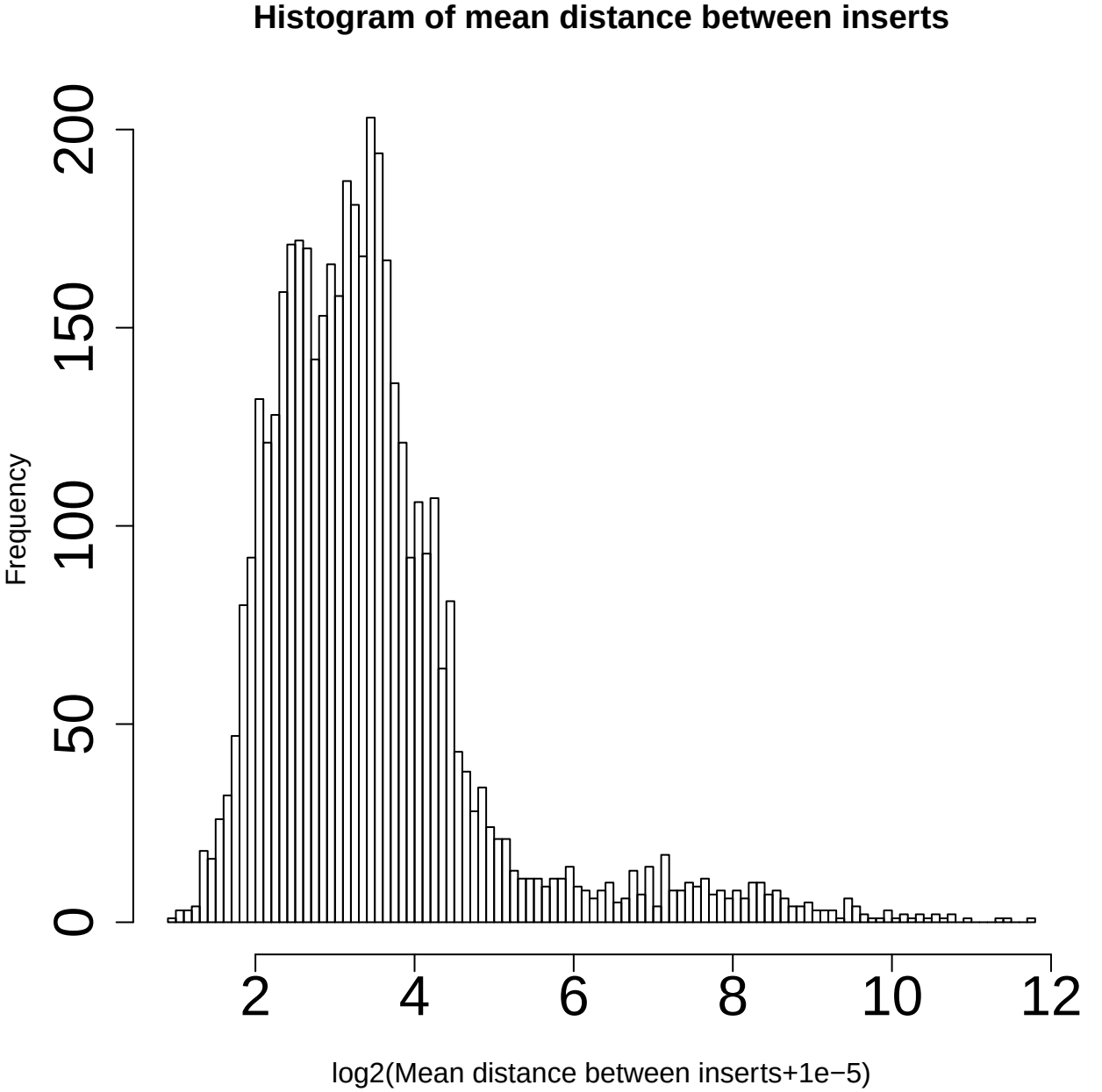

Essential
Non−essential
Monte Carlo logfoldchange
BioTraDIS logodds
10
8
6
4
2
0
−2
−20
0
20
40
60
80

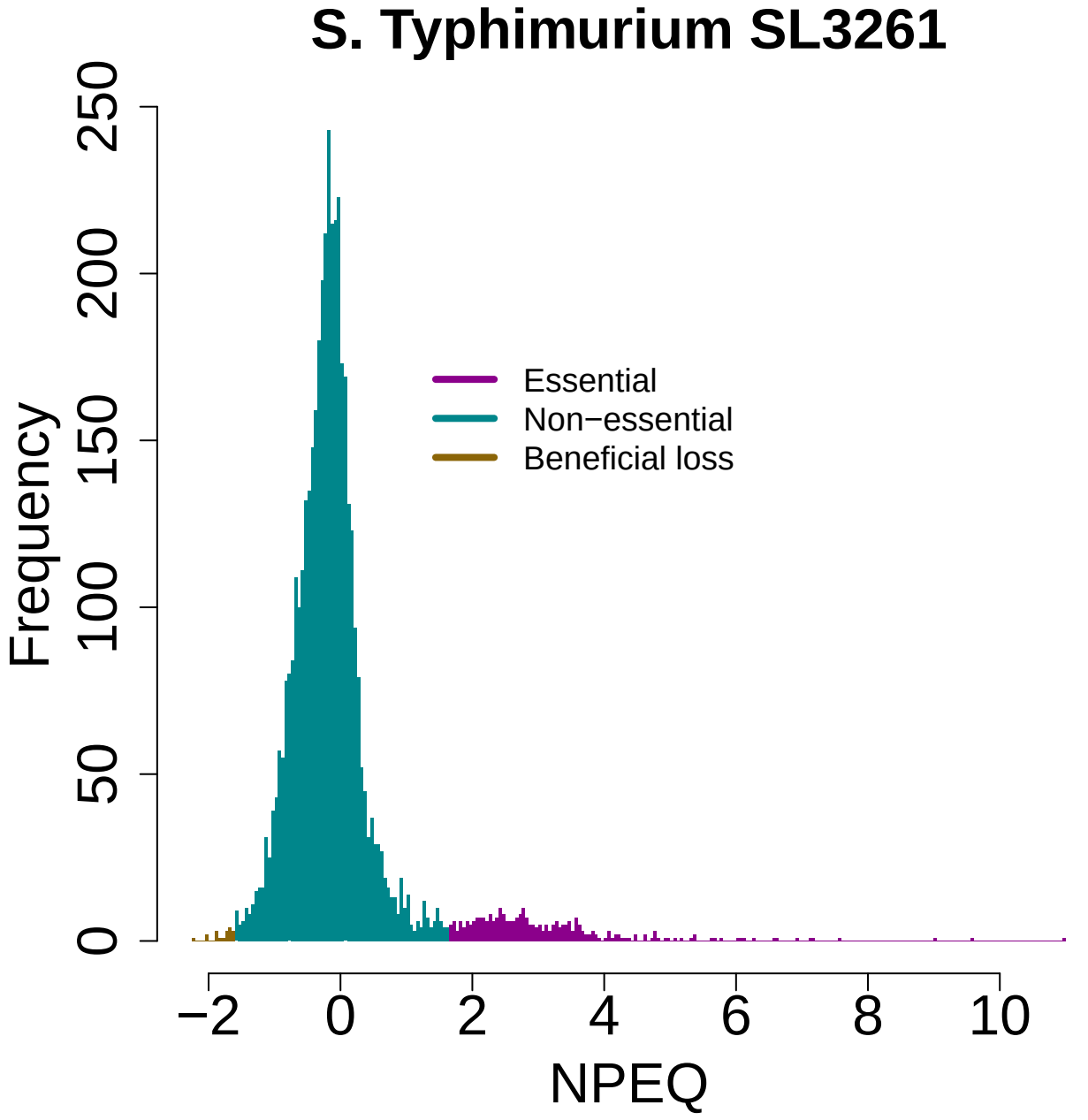

log2(Monte Carlo P−value)
0
−50
−100
−150
−200
−20
0
20
40
60
80
BioTraDIS logodds
Essential
Non−essential


Histogram of Monte Carlo logFC
Frequency
0
50
100
150
200
250
−2
0
2
4
6
8
10
Monte Carlo logFC


Histogram of Monte Carlo P−value
Frequency
0
1000
2000
3000
−200
−150
−100
−50
0
log2(Monte Carlo P−value)


Histogram of largest uninterrupted fraction
Frequency
0
20
40
60
80
100
−8
−6
−4
−2
0
log2(Largest uninterrupted fraction+1e−5)


Histogram of mean distance between inserts
Frequency
0
50
100
150
200
2
4
6
8
10
12
log2(Mean distance between inserts+1e−5)


S. Typhimurium SL3261
Frequency
0
50
100
150
200
250
Essential
Non−essential
Beneficial loss
−2
0
2
4
6
8
10
NPEQ