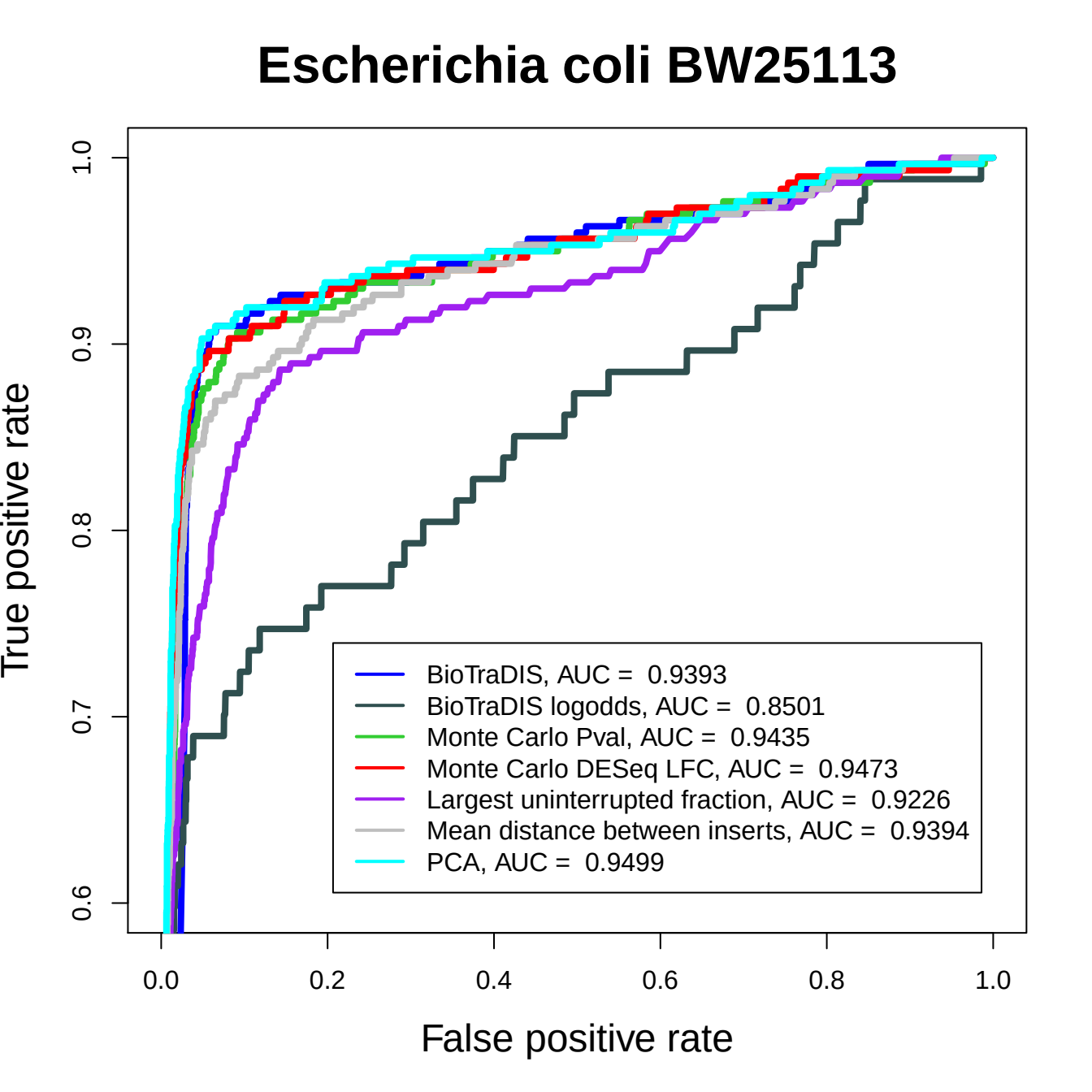
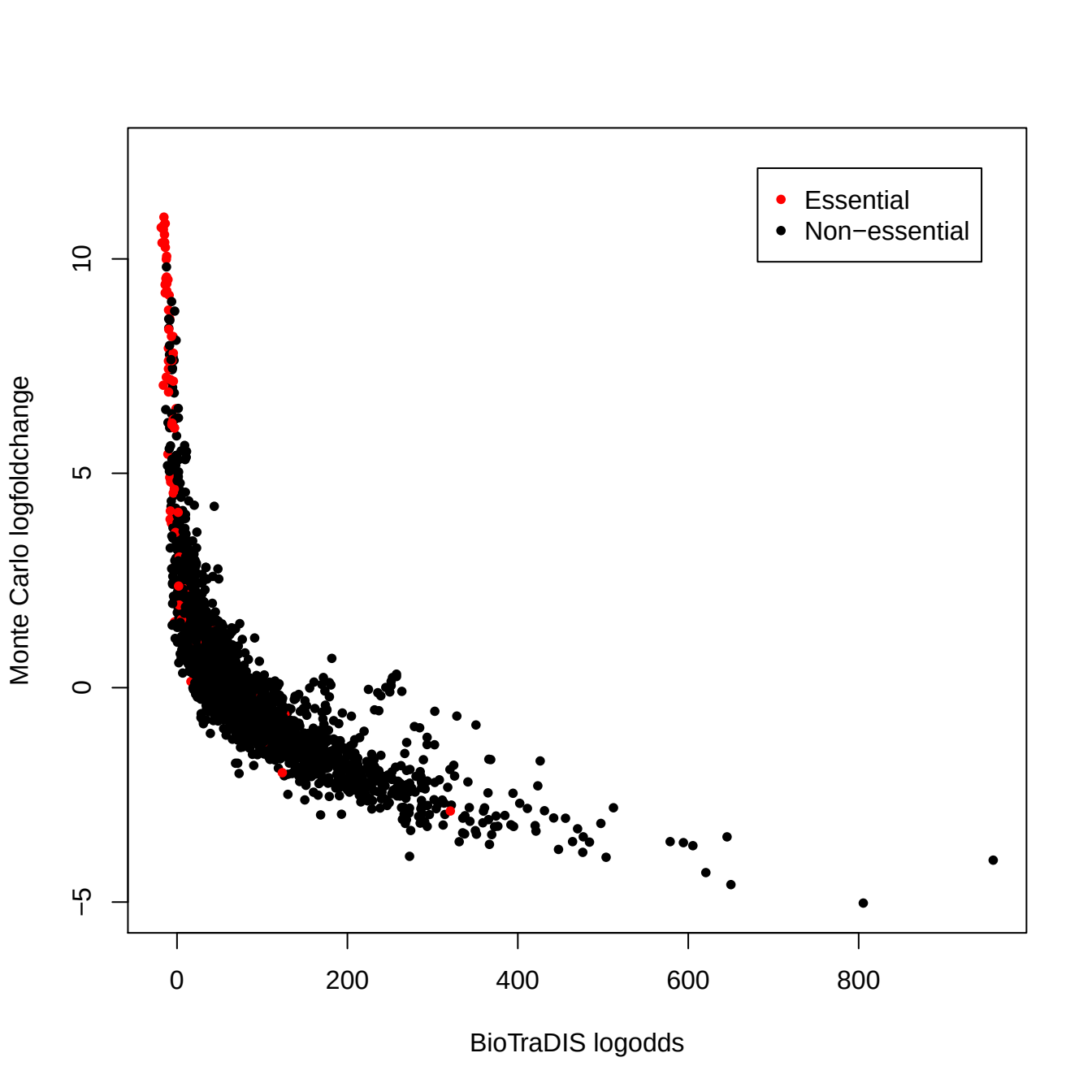
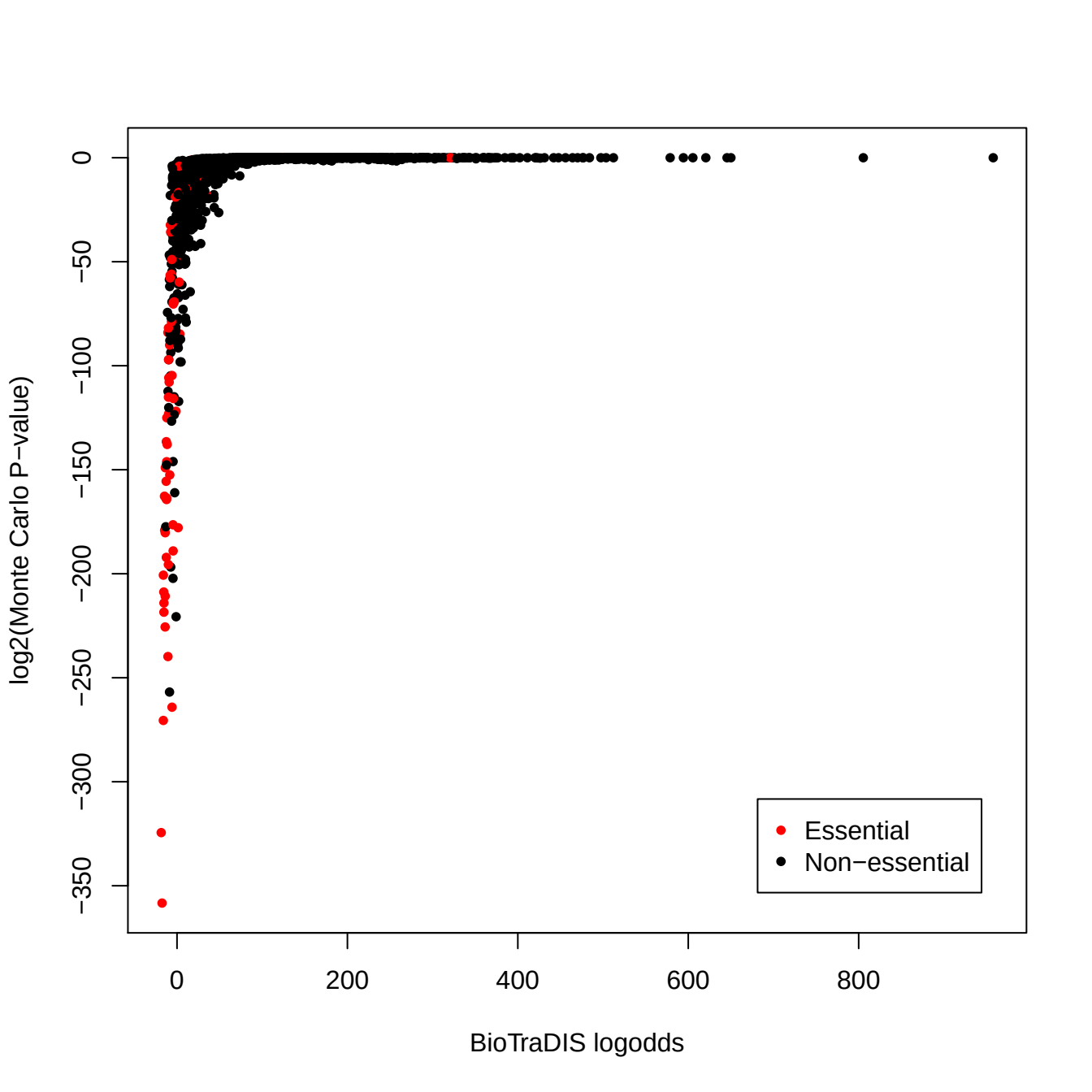
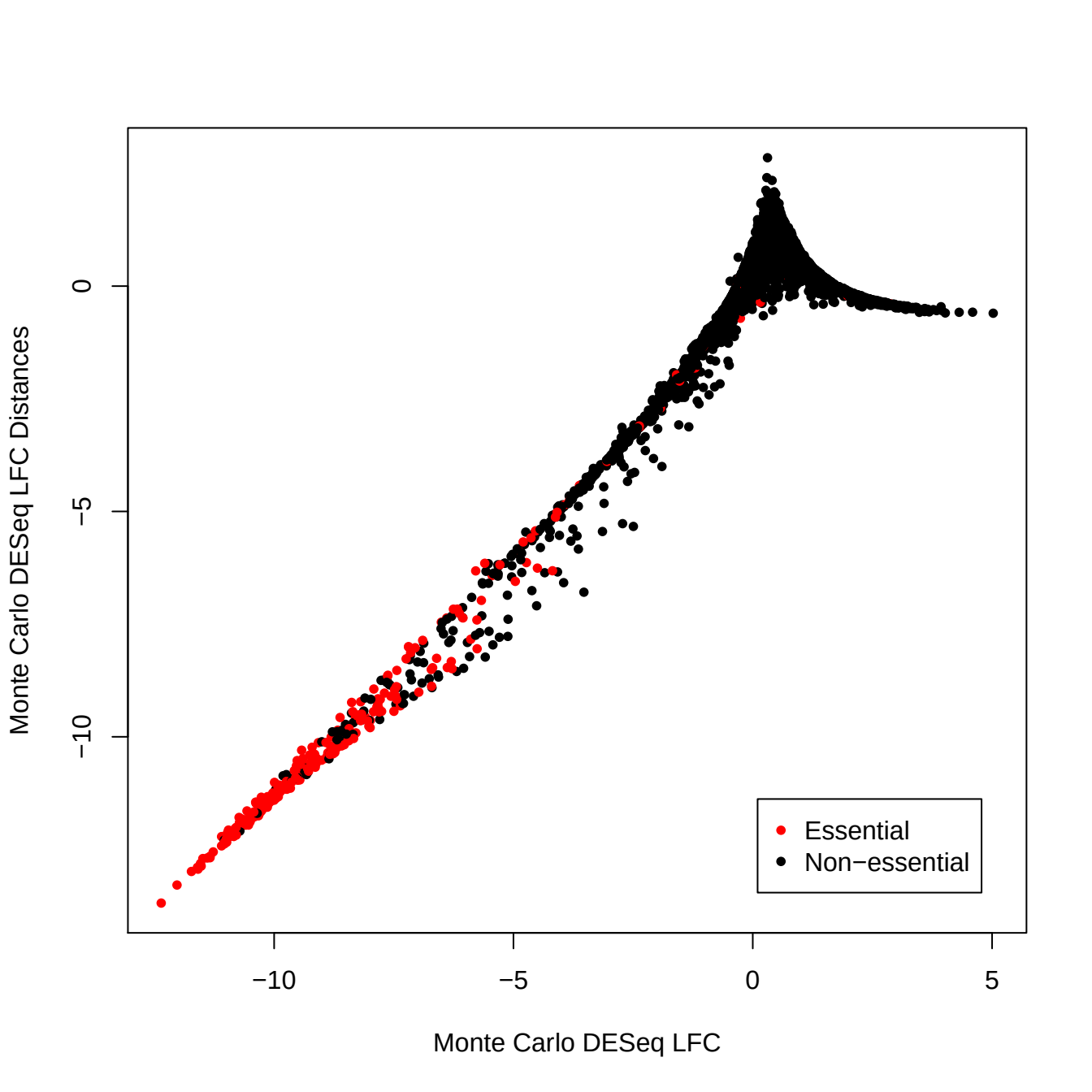
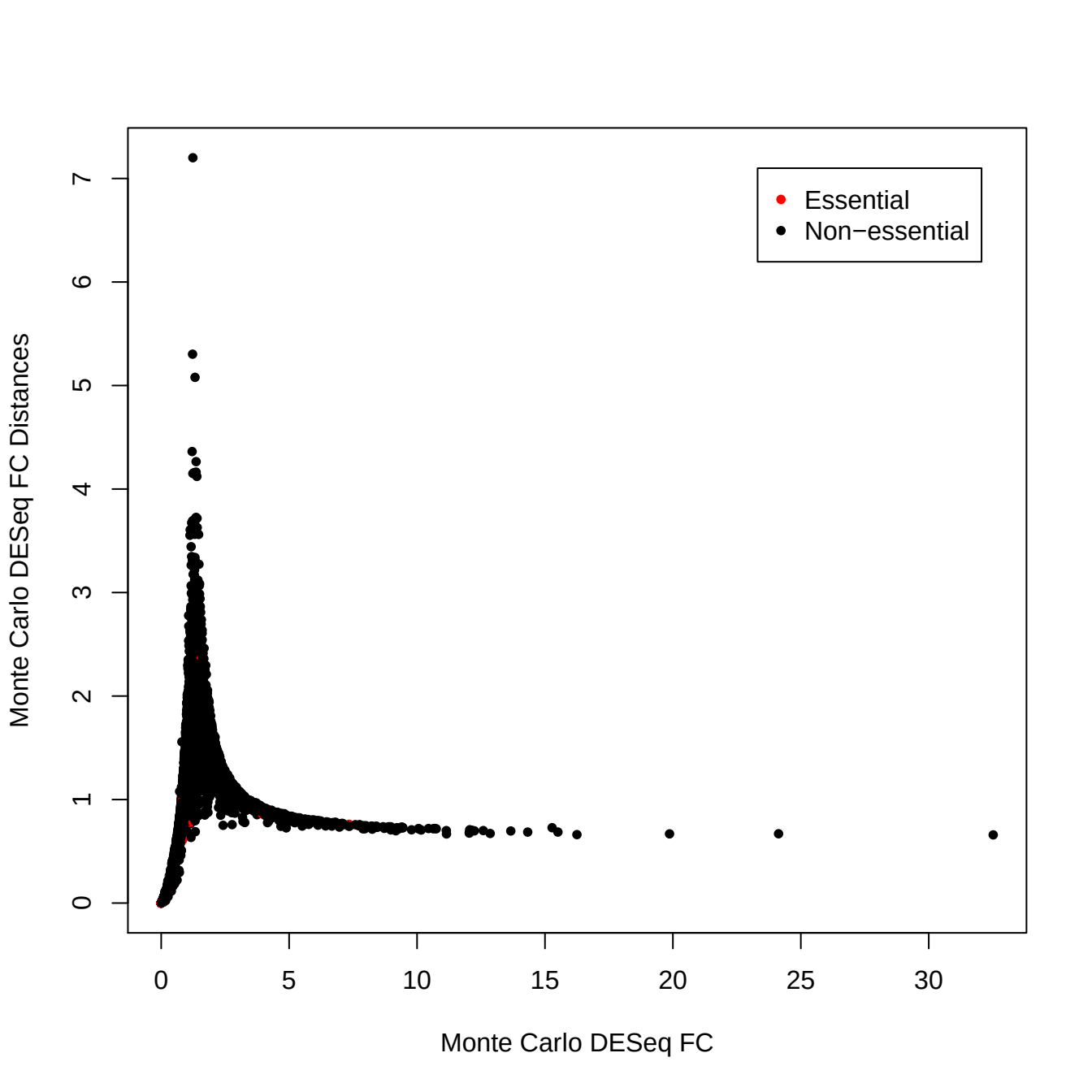
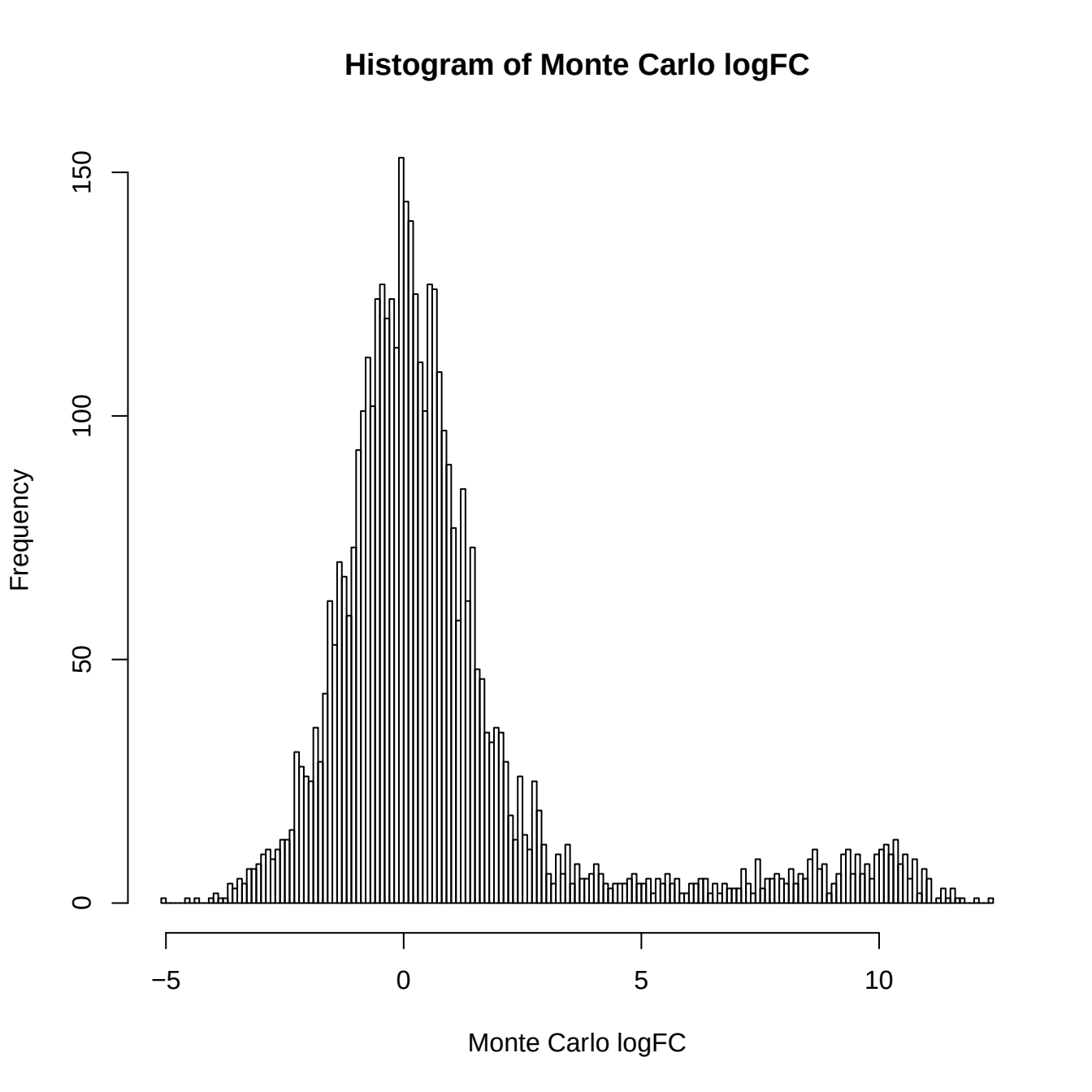

Escherichia coli BW25113
True positive rate
False positive rate
0.6
0.7
0.8
0.9
1.0
0.0
0.2
0.4
0.6
0.8
1.0
BioTraDIS, AUC = 0.9393
BioTraDIS logodds, AUC = 0.8501
Monte Carlo Pval, AUC = 0.9435
Monte Carlo DESeq LFC, AUC = 0.9473
Largest uninterrupted fraction, AUC = 0.9226
Mean distance between inserts, AUC = 0.9394
PCA, AUC = 0.9499

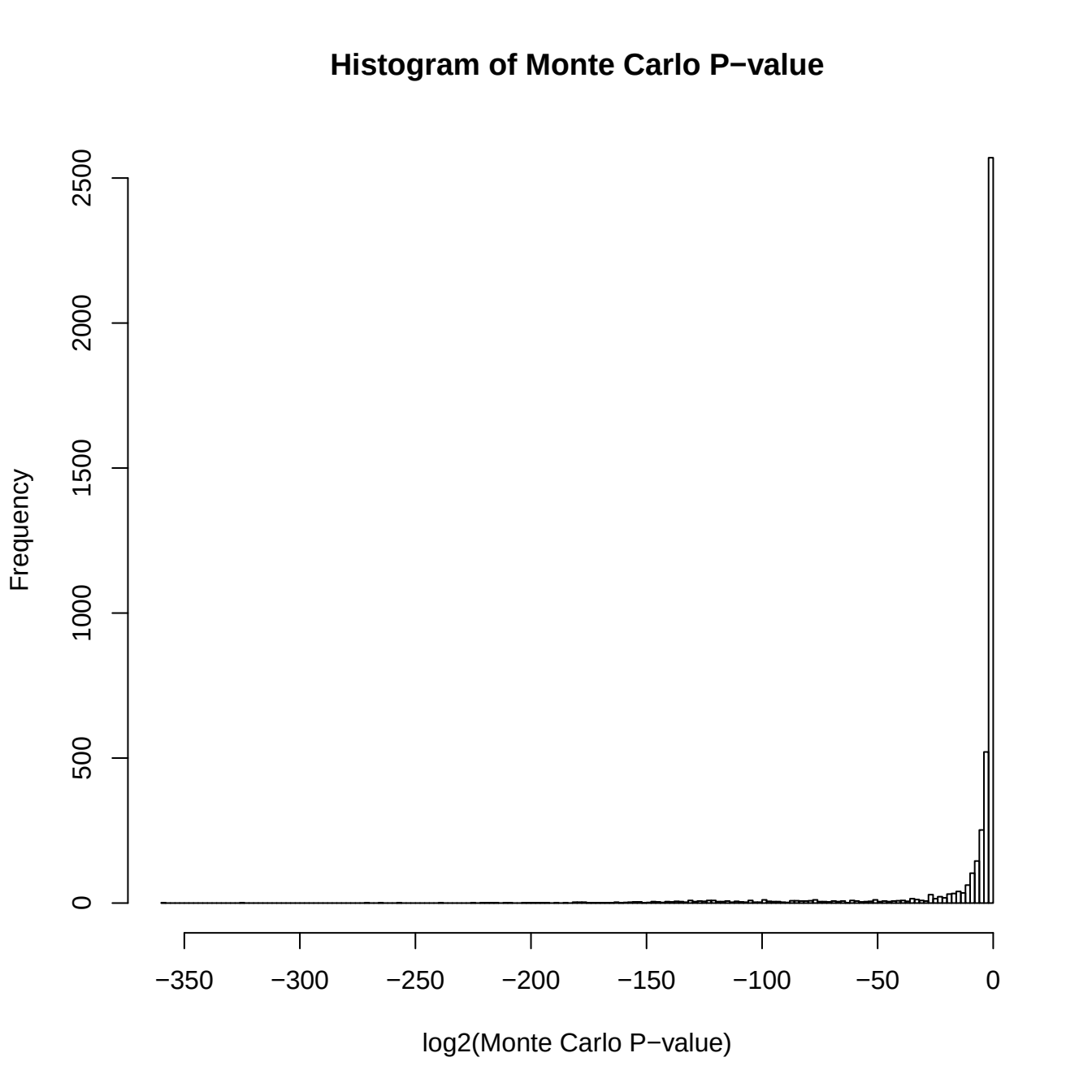

Essential
Non−essential
Monte Carlo logfoldchange
BioTraDIS logodds
10
5
0
−5
0
200
400
600
800

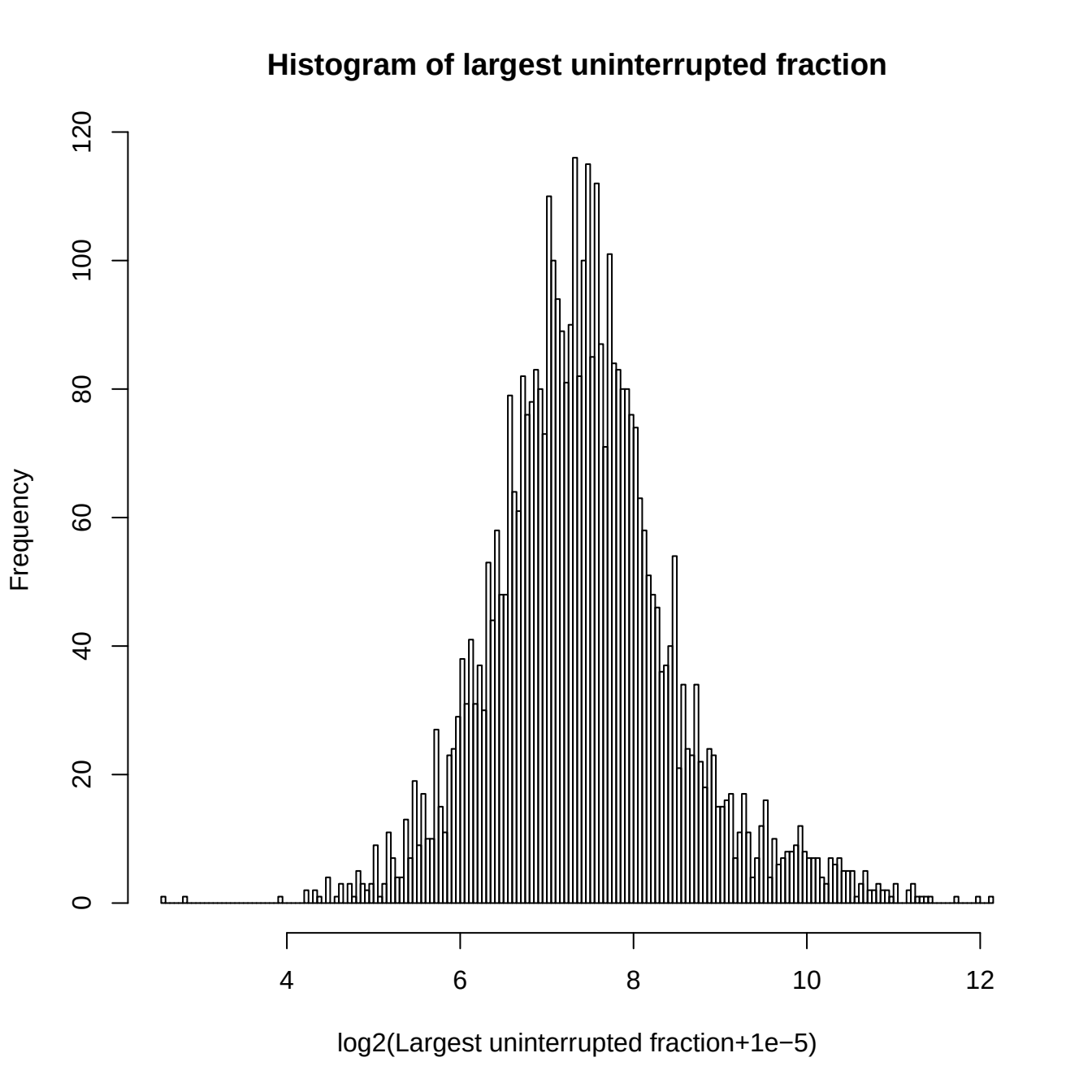

log2(Monte Carlo P−value)
0
−50
−100
−150
−200
−250
−300
−350
0
200
400
600
800
BioTraDIS logodds
Essential
Non−essential

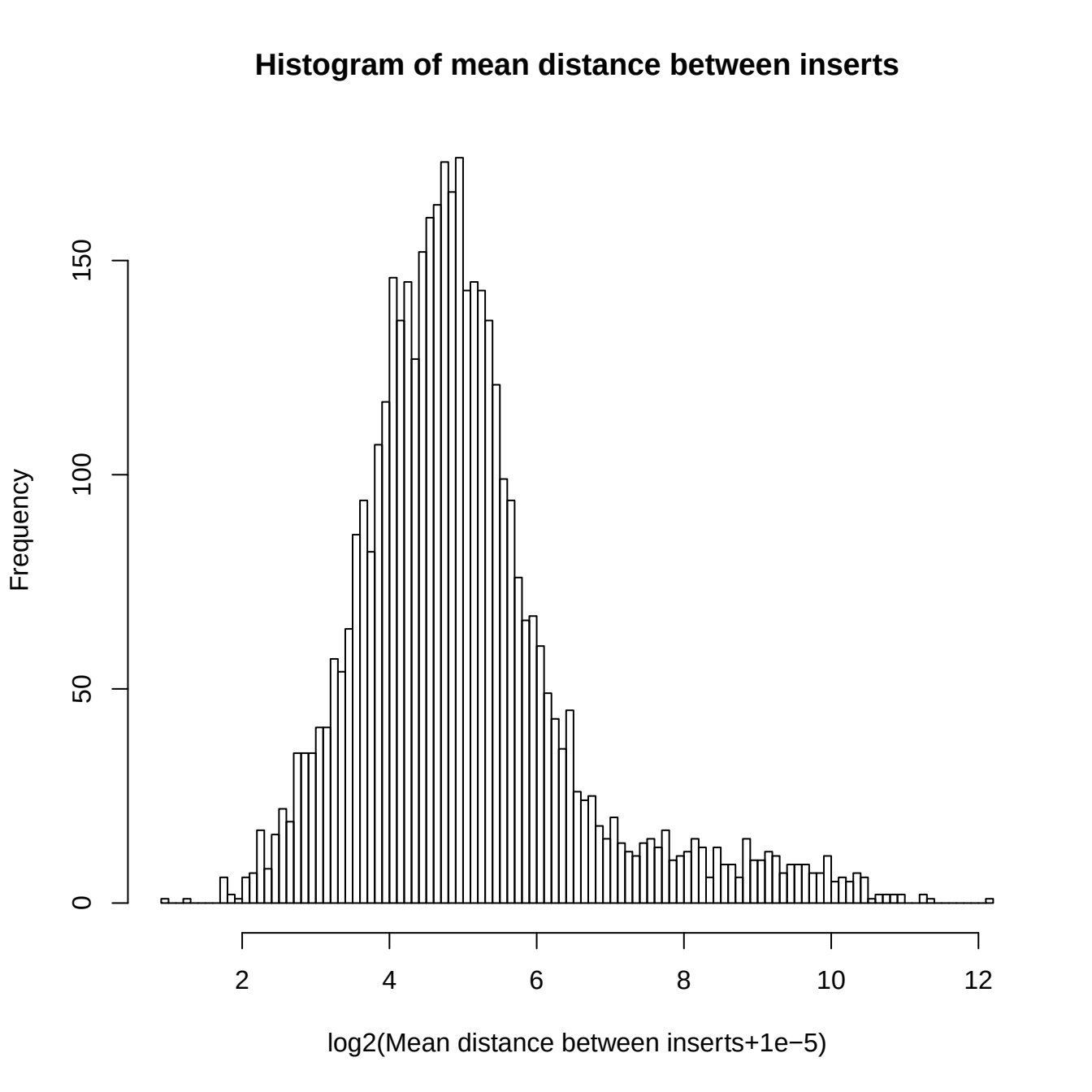

Monte Carlo DESeq LFC Distances
0
−5
−10
−10
−5
0
5
Monte Carlo DESeq LFC
Essential
Non−essential

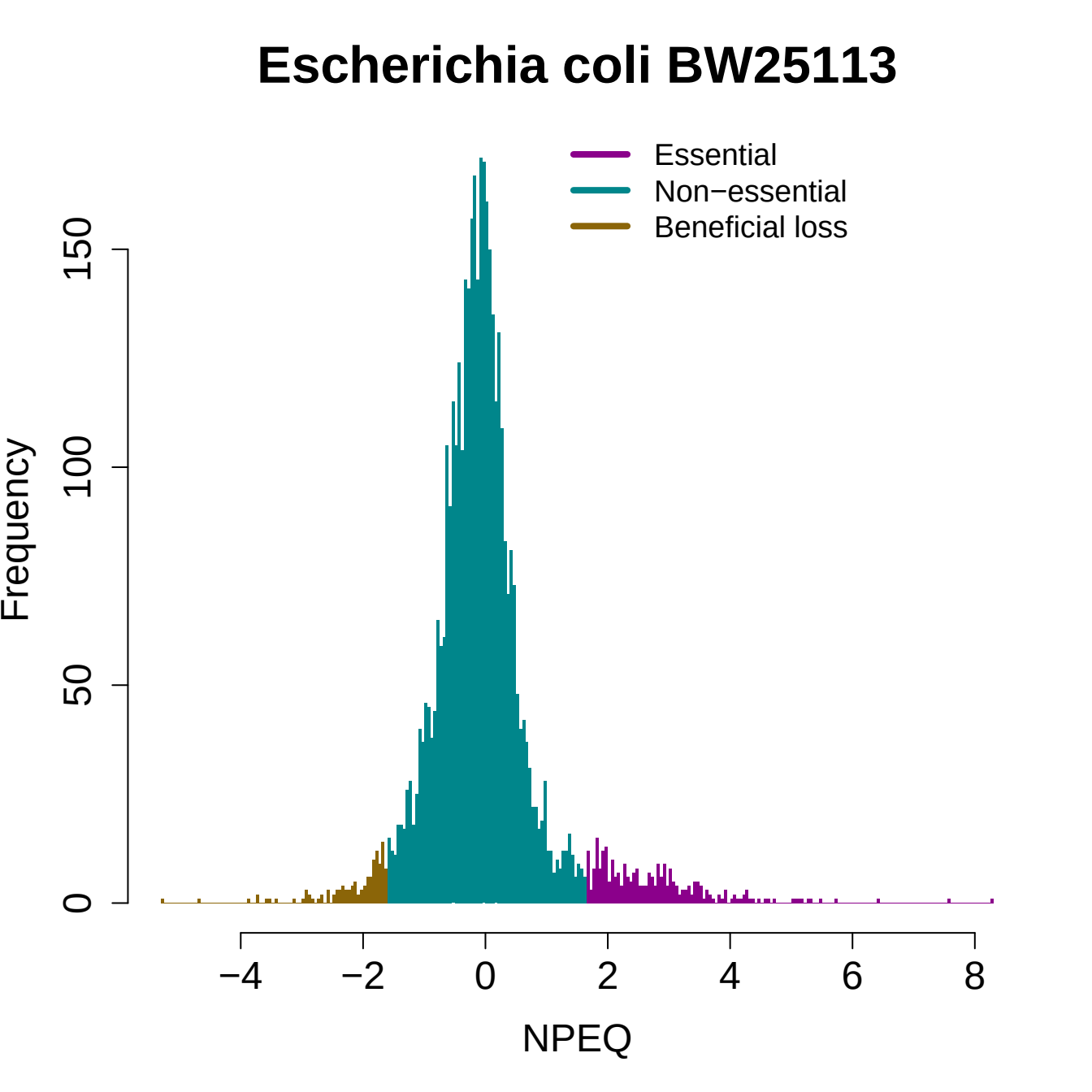

Essential
Non−essential
Monte Carlo DESeq FC Distances
Monte Carlo DESeq FC
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30


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


Histogram of Monte Carlo P−value
Frequency
0
500
1000
1500
2000
2500
−350
−300
−250
−200
−150
−100
−50
0
log2(Monte Carlo P−value)


Histogram of largest uninterrupted fraction
Frequency
0
20
40
60
80
100
120
4
6
8
10
12
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)


Escherichia coli BW25113
Essential
Non−essential
Beneficial loss
Frequency
0
50
100
150
−4
−2
0
2
4
6
8
NPEQ