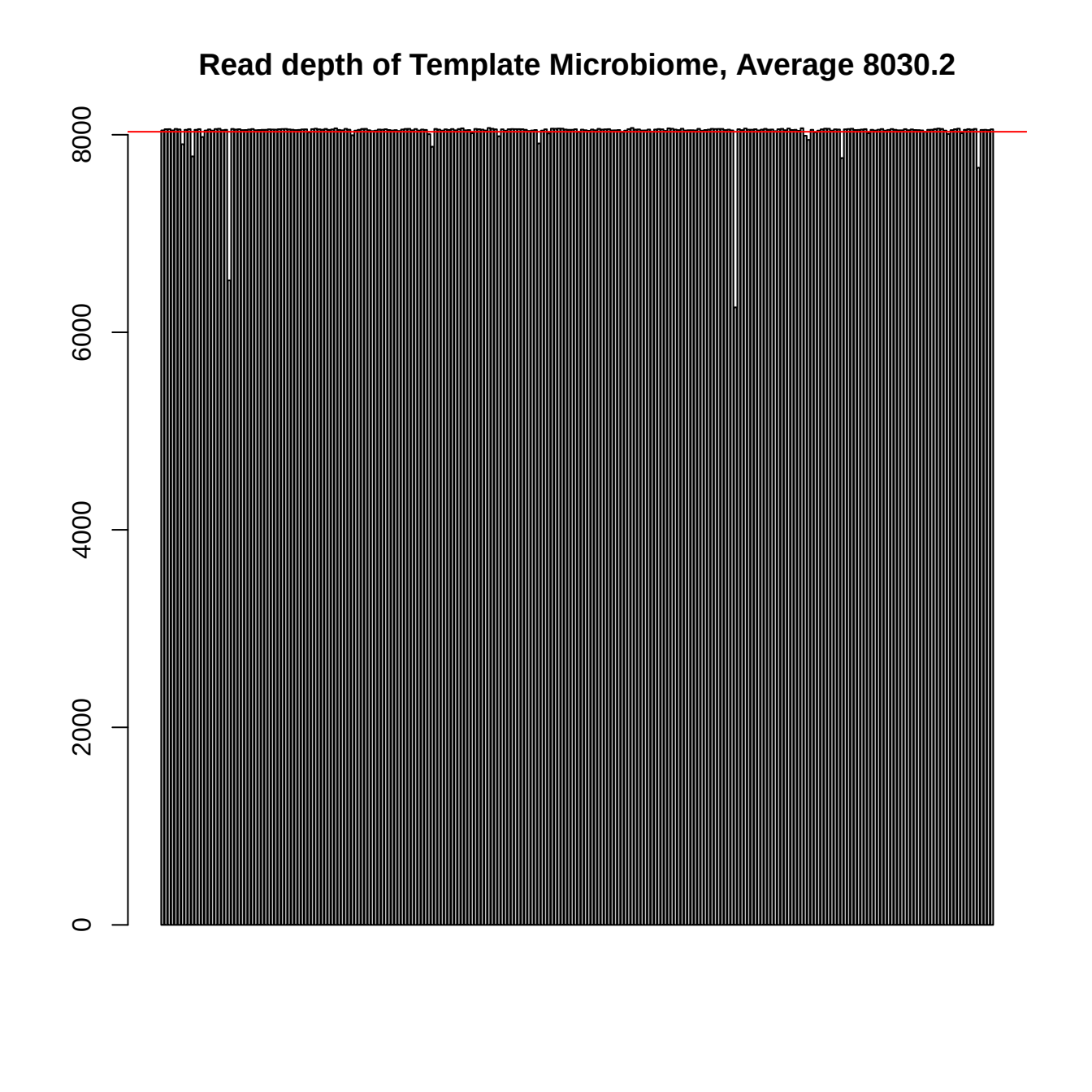
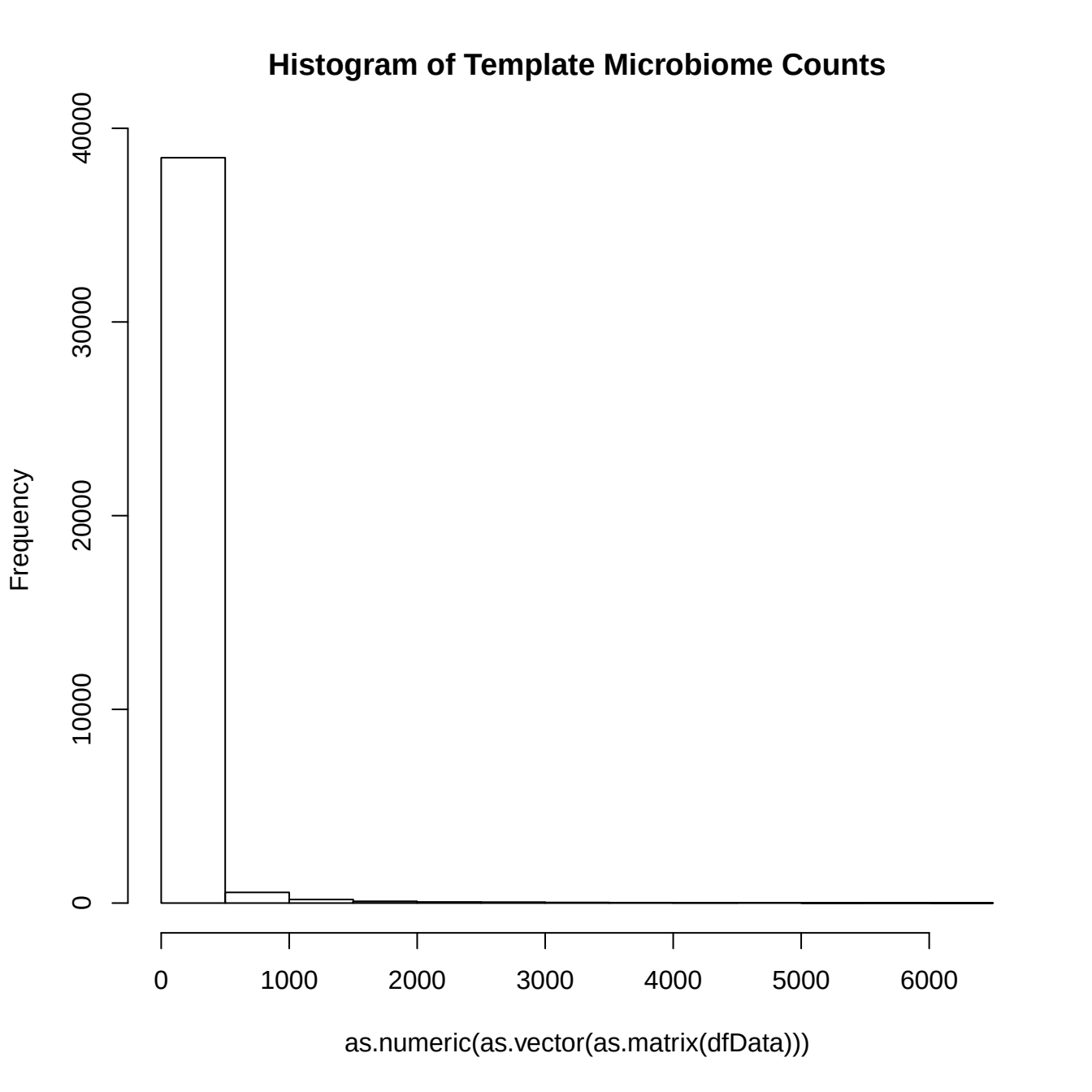
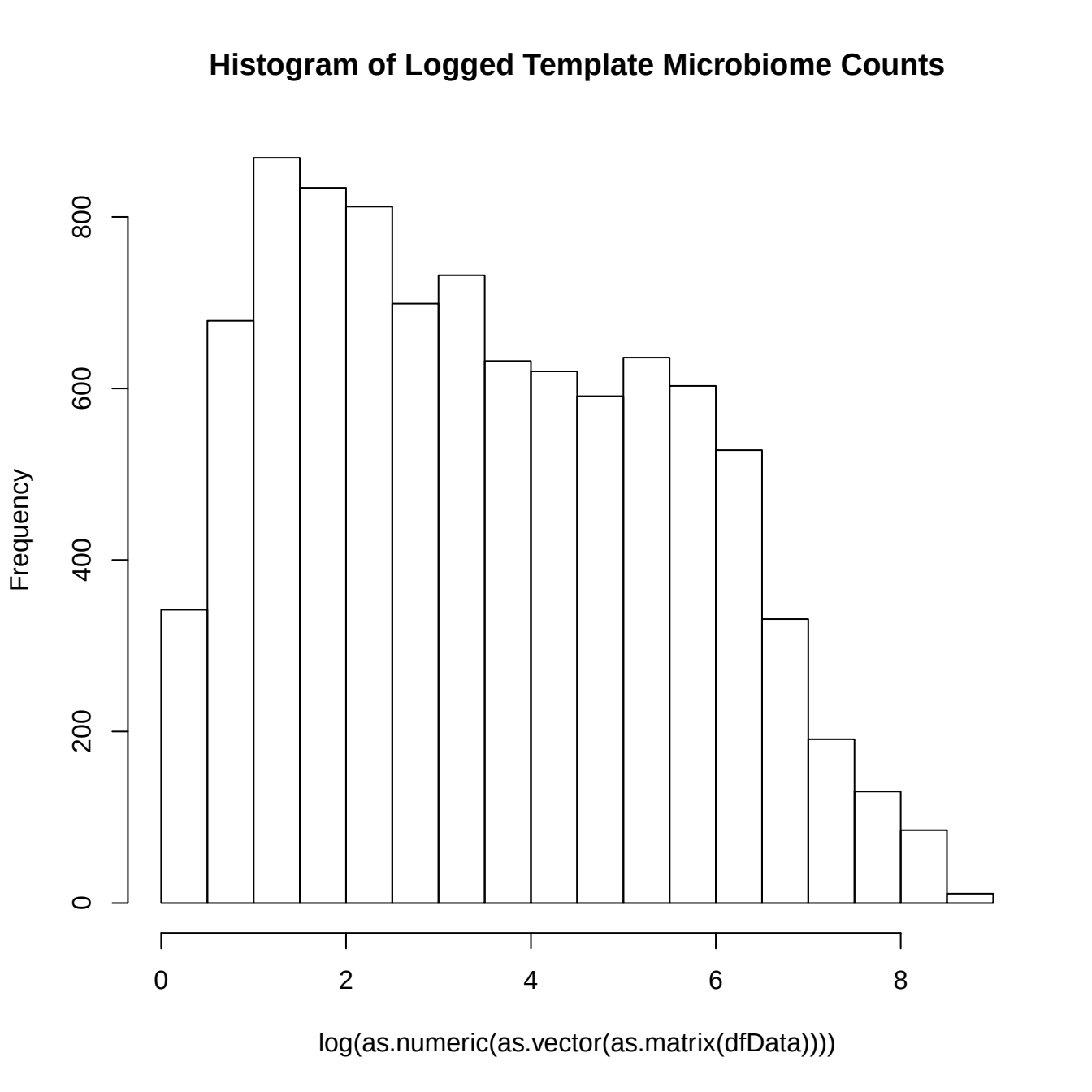
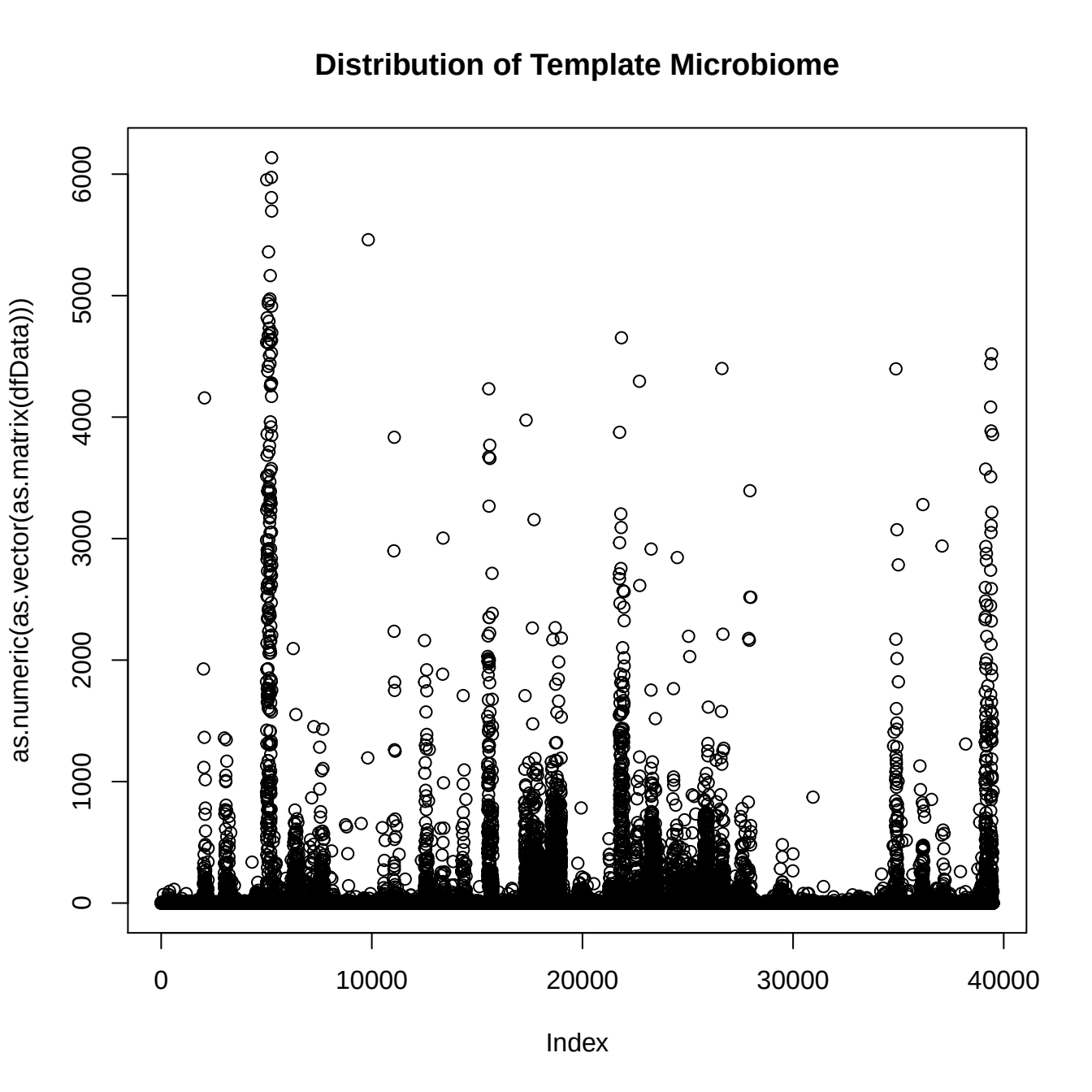
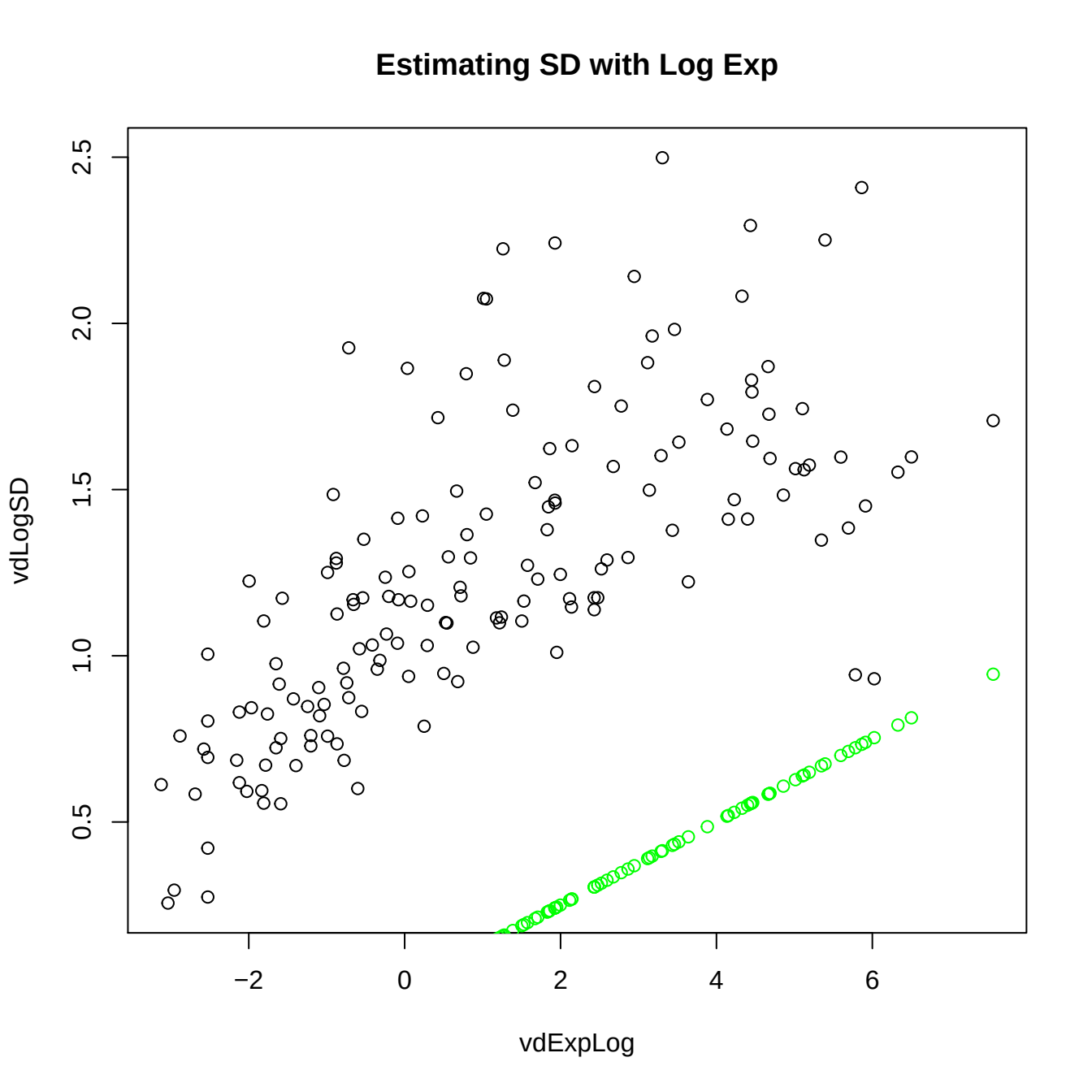
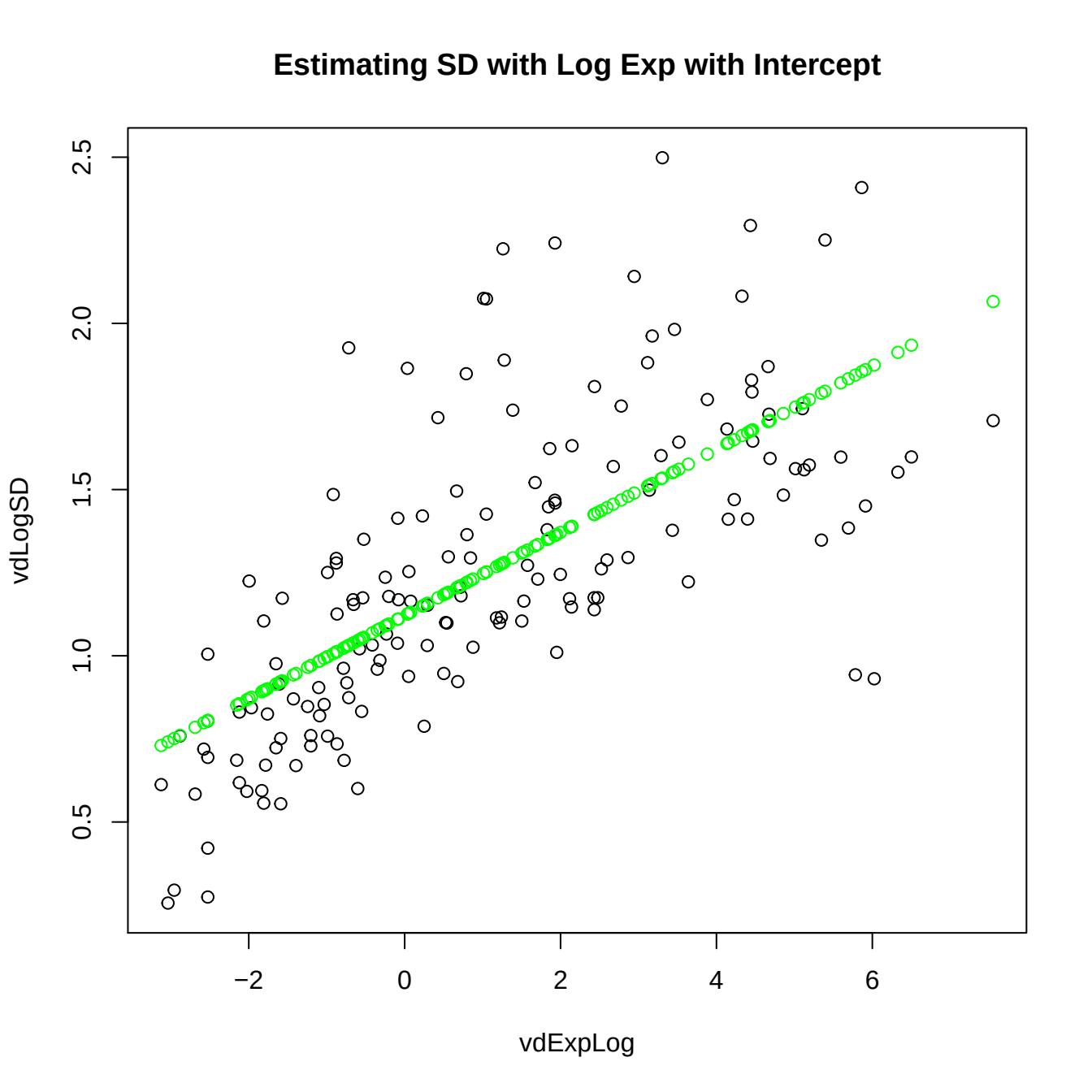

Read depth of Template Microbiome, Average 8030.2
8000
6000
4000
2000
0

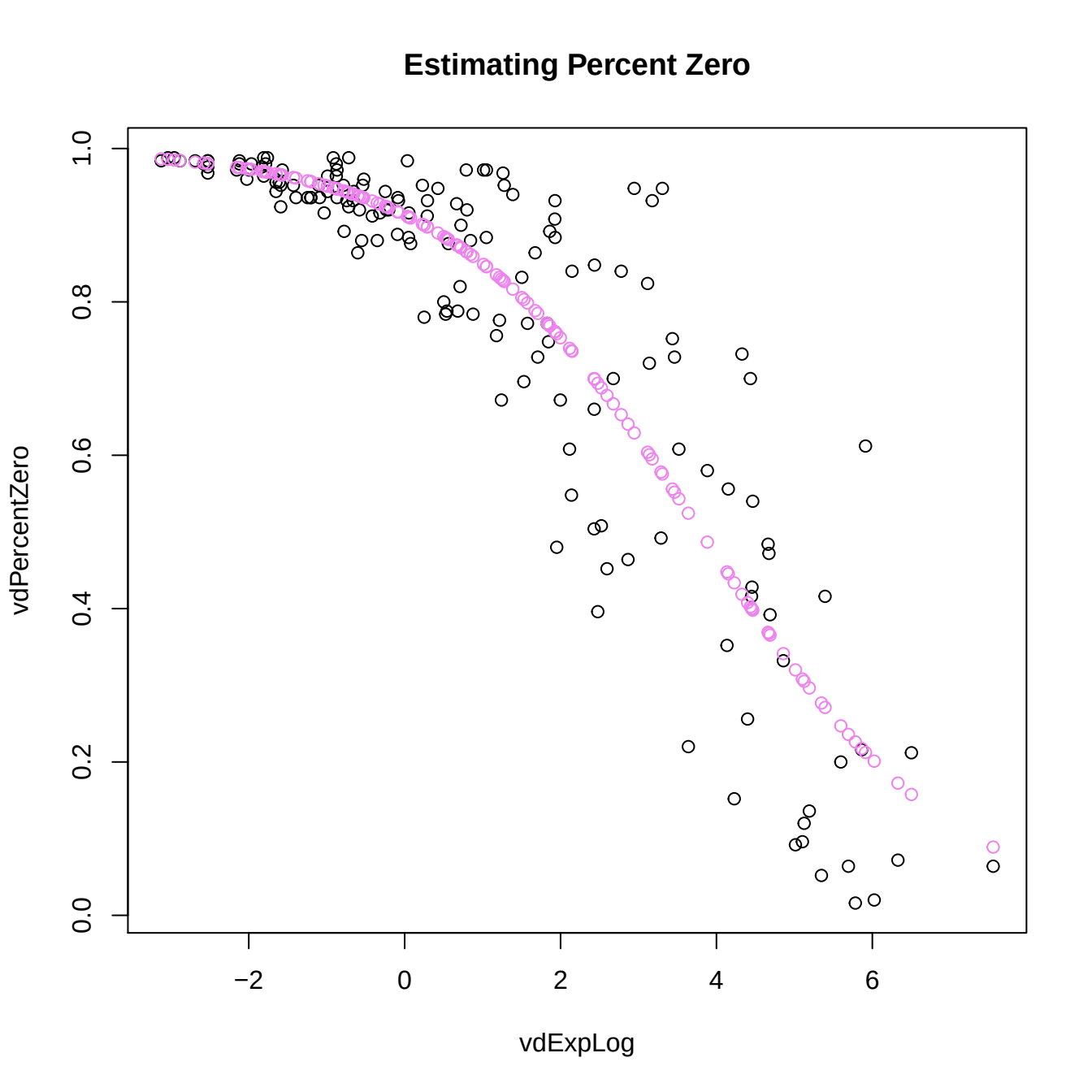

Histogram of Template Microbiome Counts
Frequency
0
10000
20000
30000
40000
0
1000
2000
3000
4000
5000
6000
as.numeric(as.vector(as.matrix(dfData)))

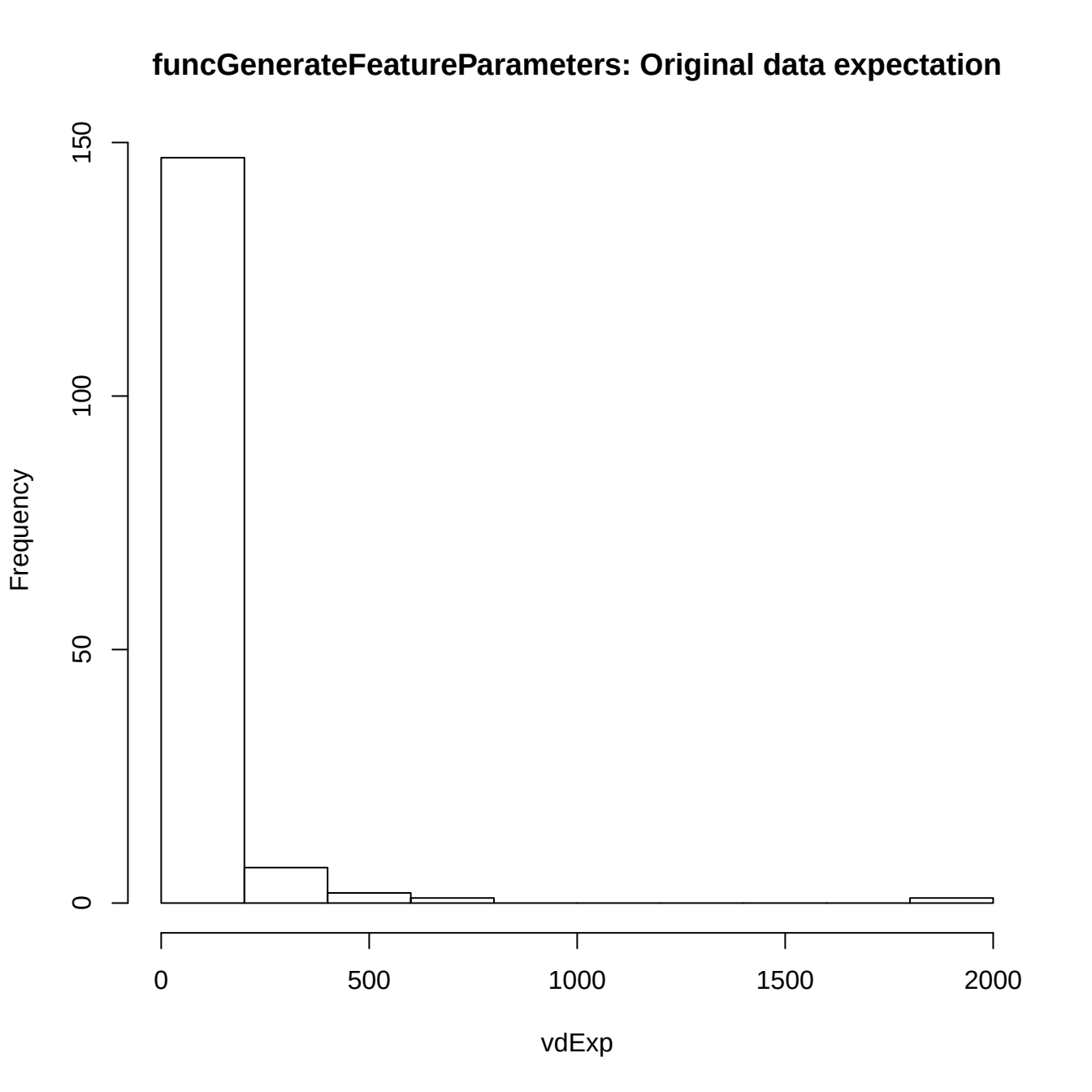

Histogram of Logged Template Microbiome Counts
Frequency
0
200
400
600
800
0
2
4
6
8
log(as.numeric(as.vector(as.matrix(dfData))))

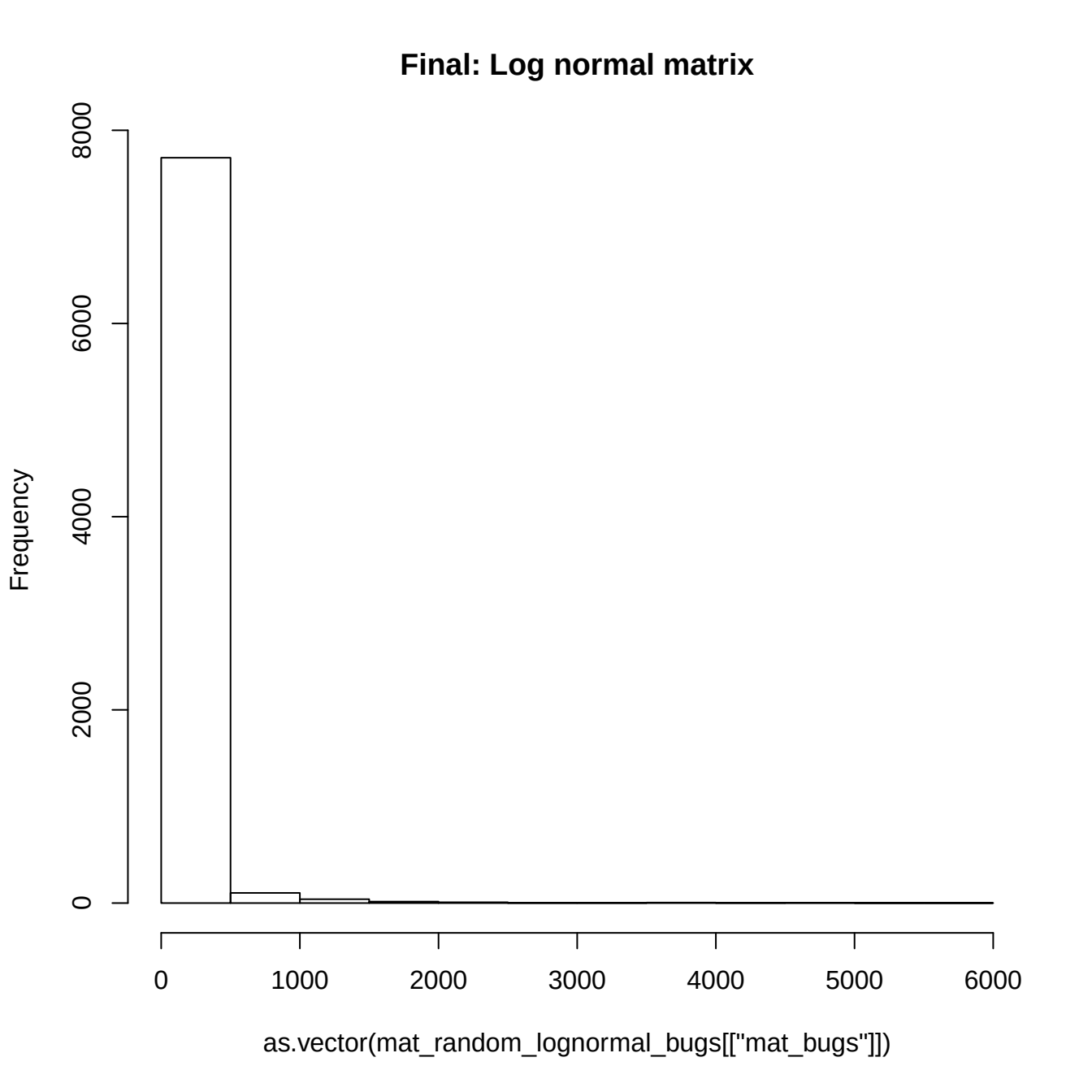

Distribution of Template Microbiome
as.numeric(as.vector(as.matrix(dfData)))
0
1000
2000
3000
4000
5000
6000
0
10000
20000
30000
40000
Index


Estimating SD with Log Exp
vdLogSD
vdExpLog
0.5
1.0
1.5
2.0
2.5
−2
0
2
4
6


Estimating SD with Log Exp with Intercept
vdLogSD
vdExpLog
0.5
1.0
1.5
2.0
2.5
−2
0
2
4
6


Estimating Percent Zero
vdPercentZero
vdExpLog
0.0
0.2
0.4
0.6
0.8
1.0
−2
0
2
4
6


funcGenerateFeatureParameters: Original data expectation
Frequency
0
50
100
150
0
500
1000
1500
2000
vdExp


Final: Log normal matrix
Frequency
0
2000
4000
6000
8000
0
1000
2000
3000
4000
5000
6000
as.vector(mat_random_lognormal_bugs[["mat_bugs"]])