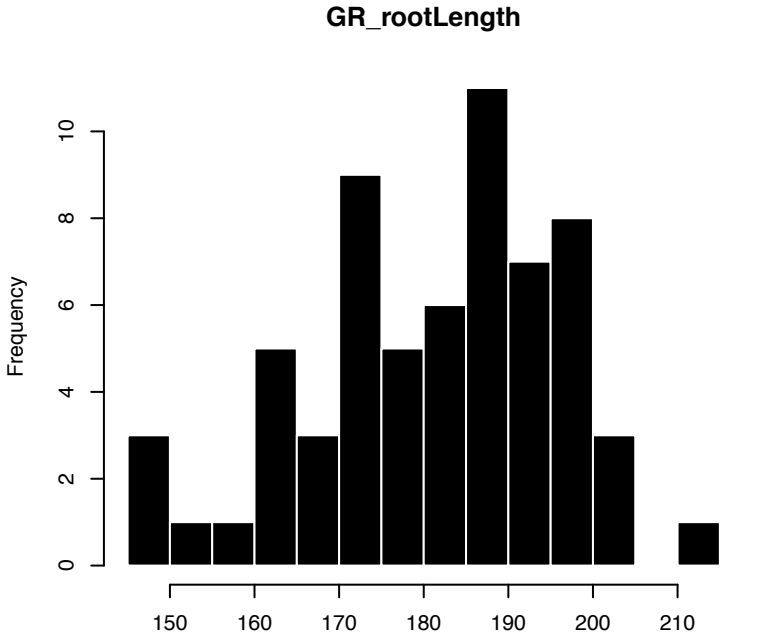
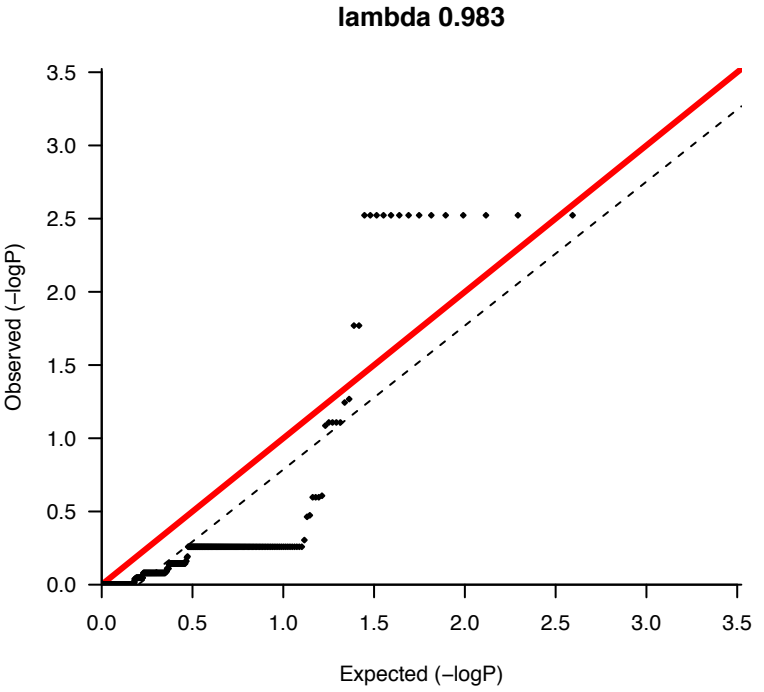
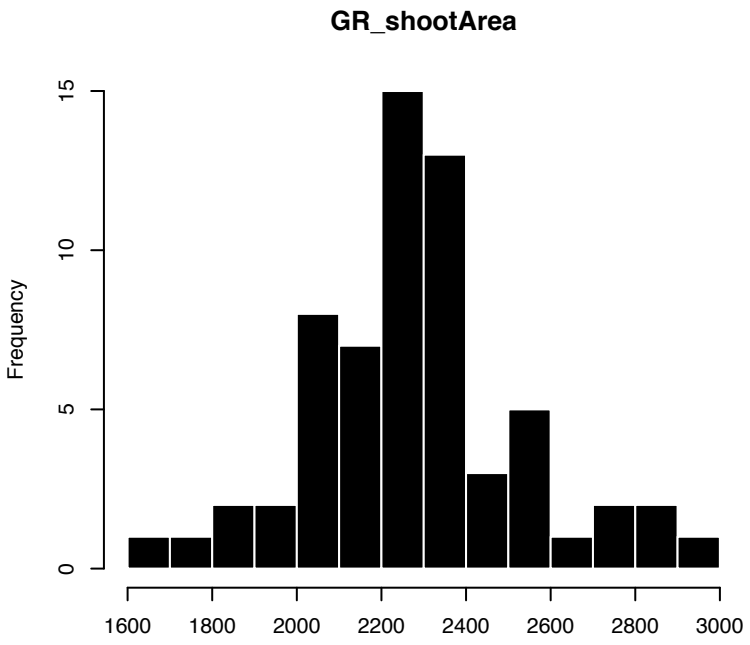
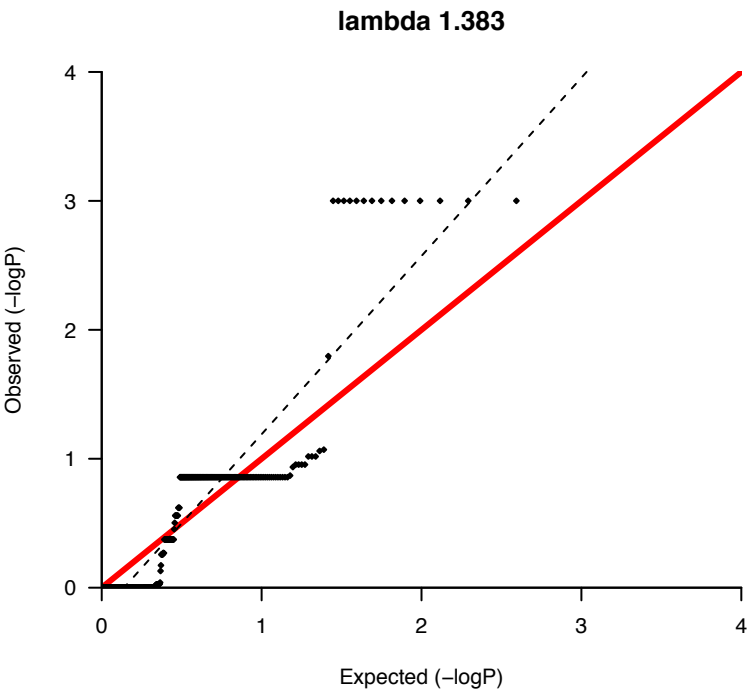
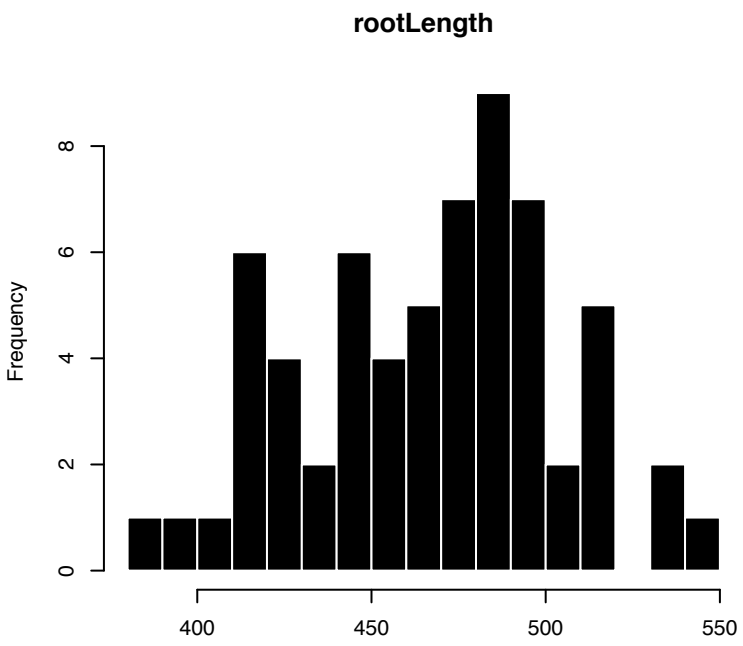
Text S2

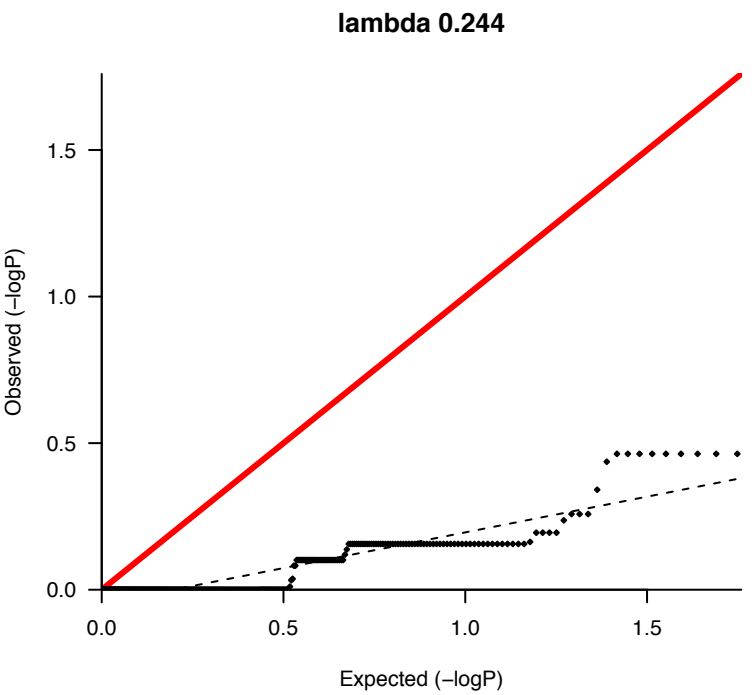

GR_rootLength
Frequency
0
2
4
6
8
10
150
160
170
180
190
200
210

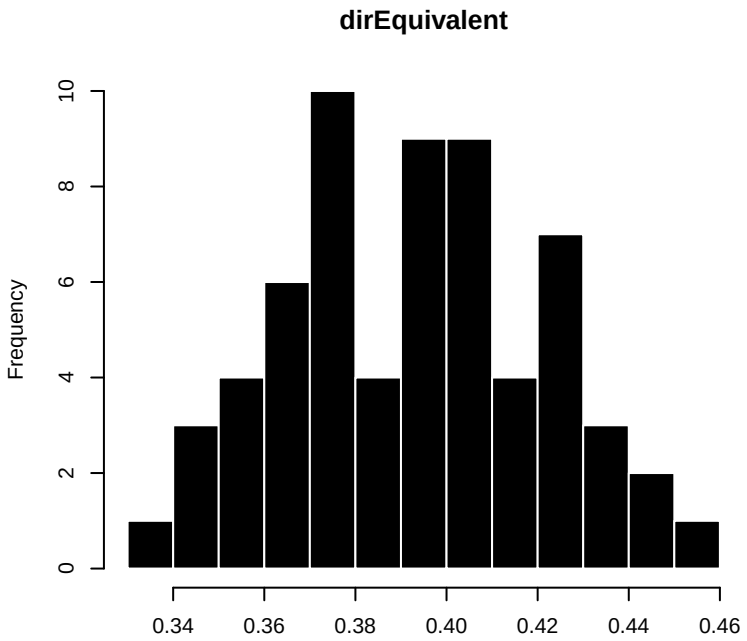

lambda 0.983
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

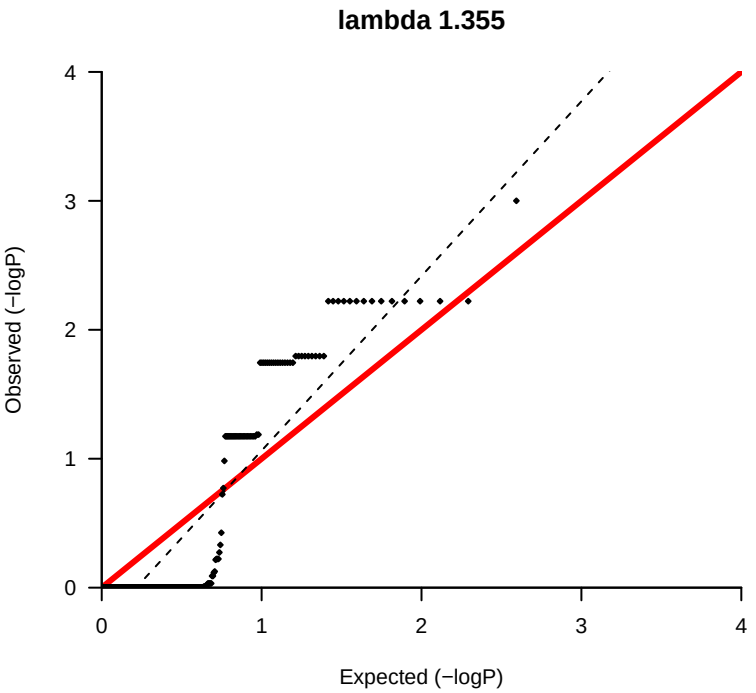

GR_shootArea
Frequency
0
5
10
15
1600
1800
2000
2200
2400
2600
2800
3000

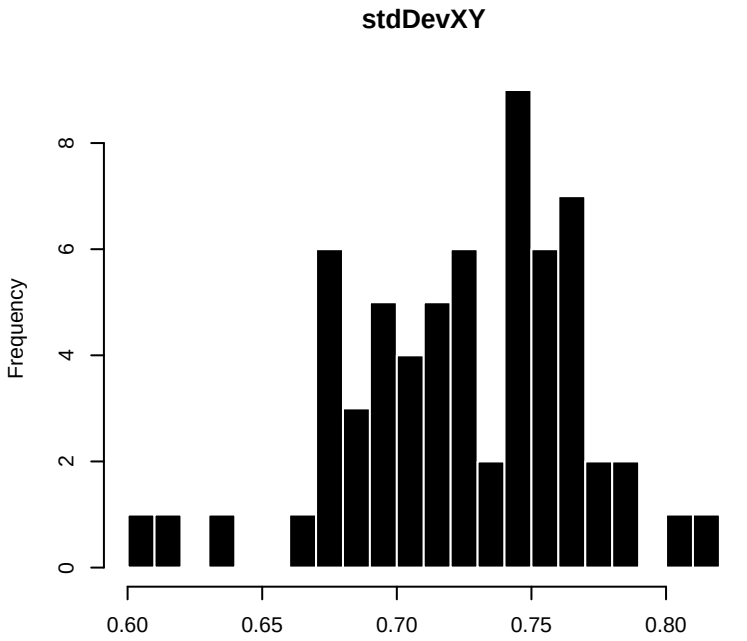

lambda 1.383
Observed (−logP)
Expected (−logP)
0
1
2
3
4

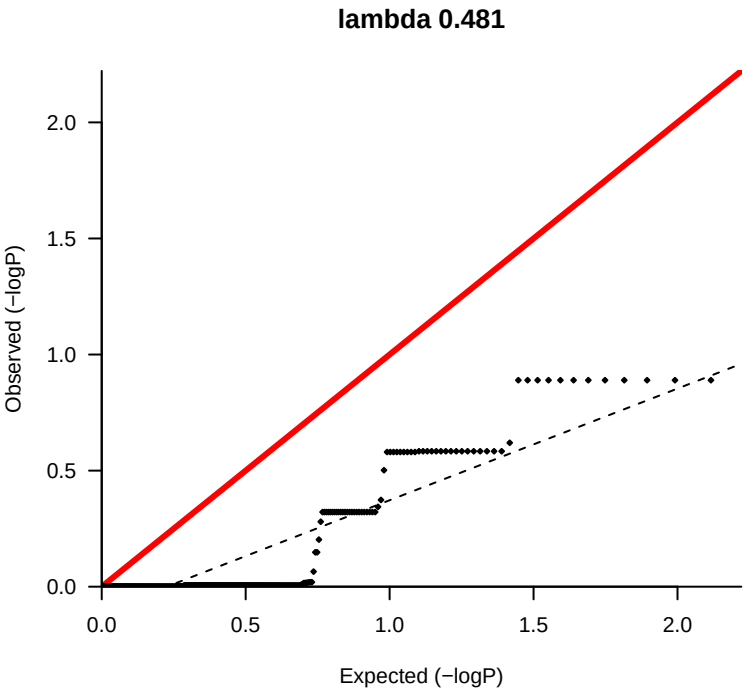

rootLength
Frequency
0
2
4
6
8
400
450
500
550

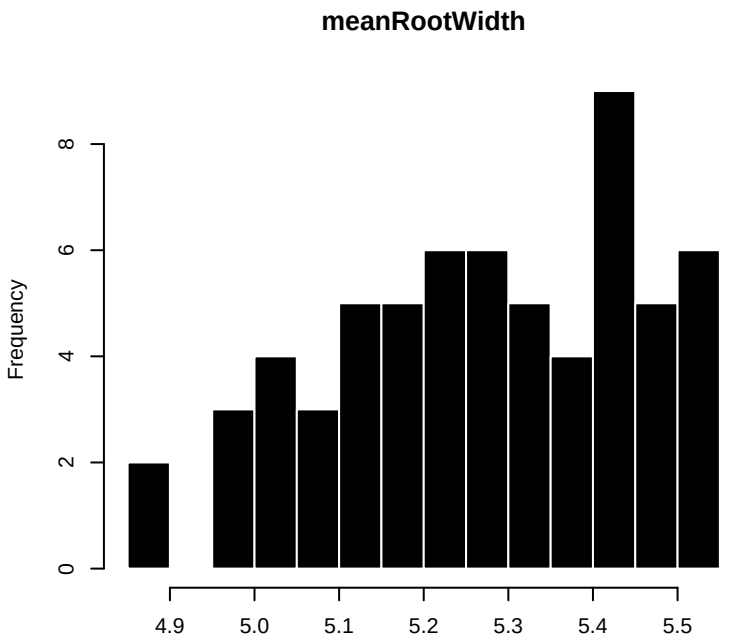

lambda 0.244
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5

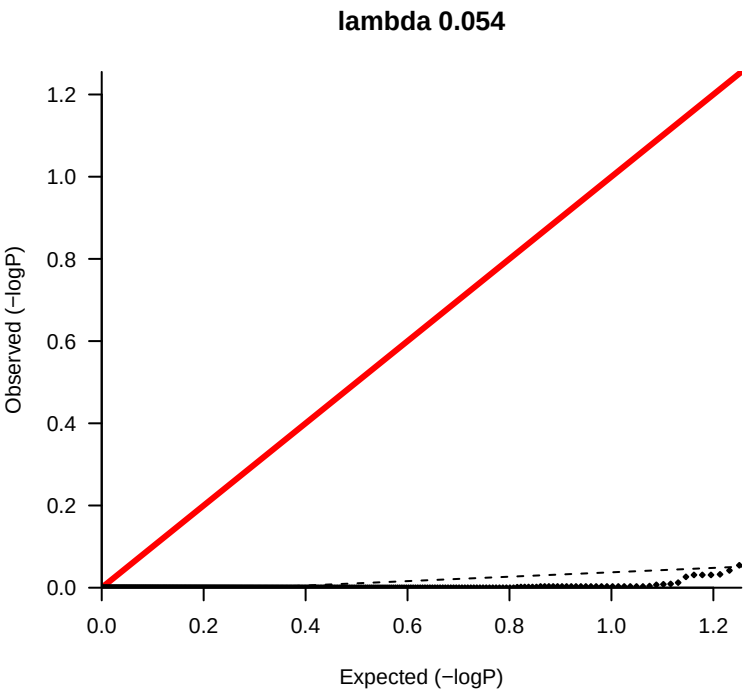

dirEquivalent
Frequency
0
2
4
6
8
10
0.34
0.36
0.38
0.40
0.42
0.44
0.46

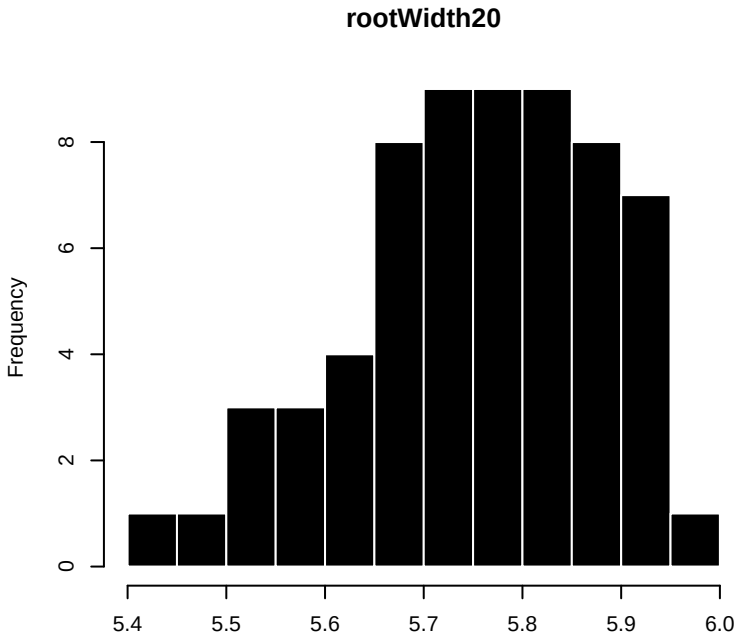

lambda 1.355
Observed (−logP)
Expected (−logP)
0
1
2
3
4

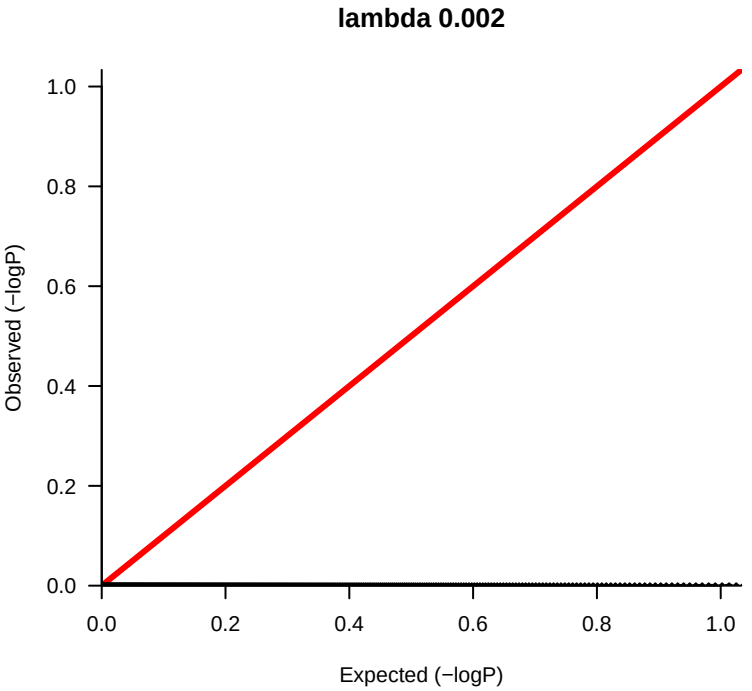

stdDevXY
Frequency
0
2
4
6
8
0.60
0.65
0.70
0.75
0.80

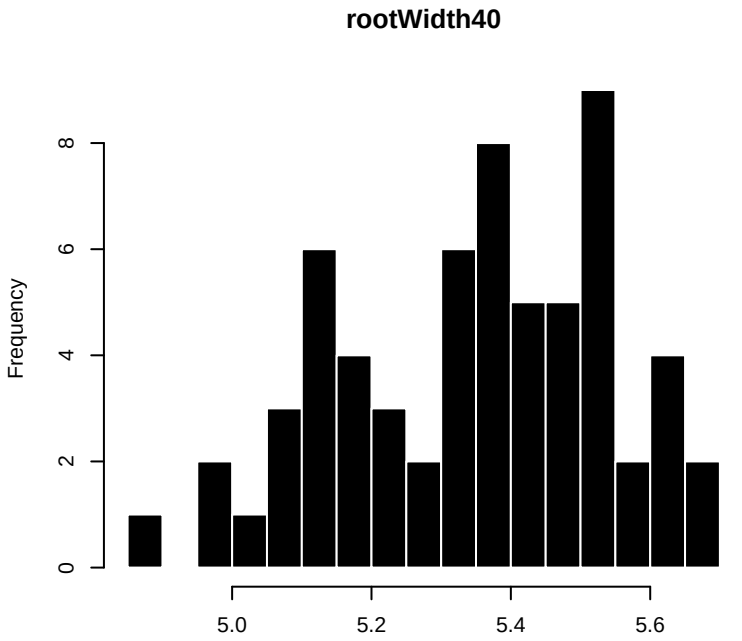

lambda 0.481
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5
2.0

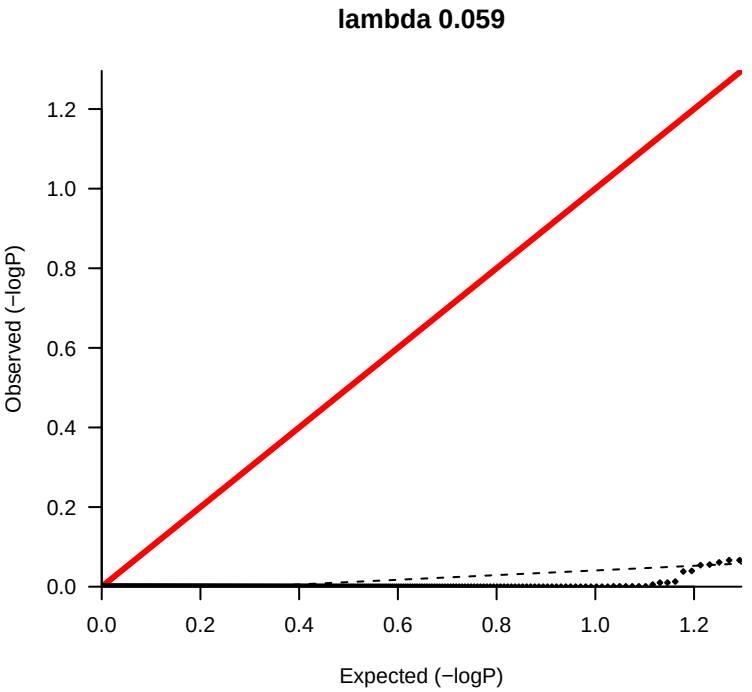

meanRootWidth
Frequency
0
2
4
6
8
4.9
5.0
5.1
5.2
5.3
5.4
5.5

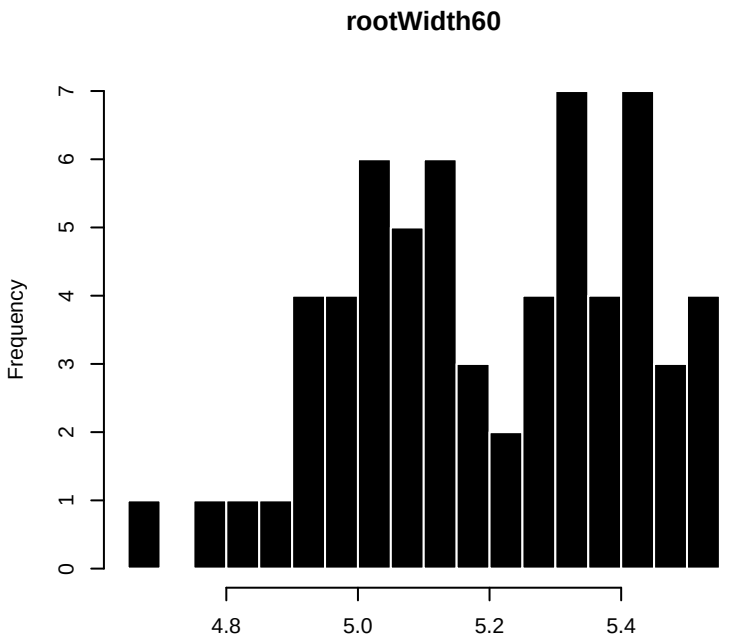

lambda 0.054
Observed (−logP)
Expected (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2

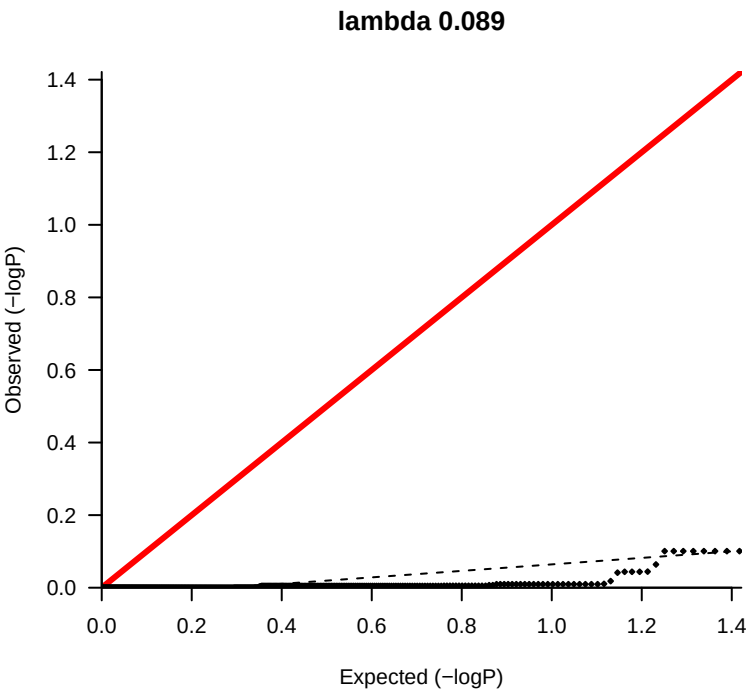

rootWidth20
Frequency
0
2
4
6
8
5.4
5.5
5.6
5.7
5.8
5.9
6.0

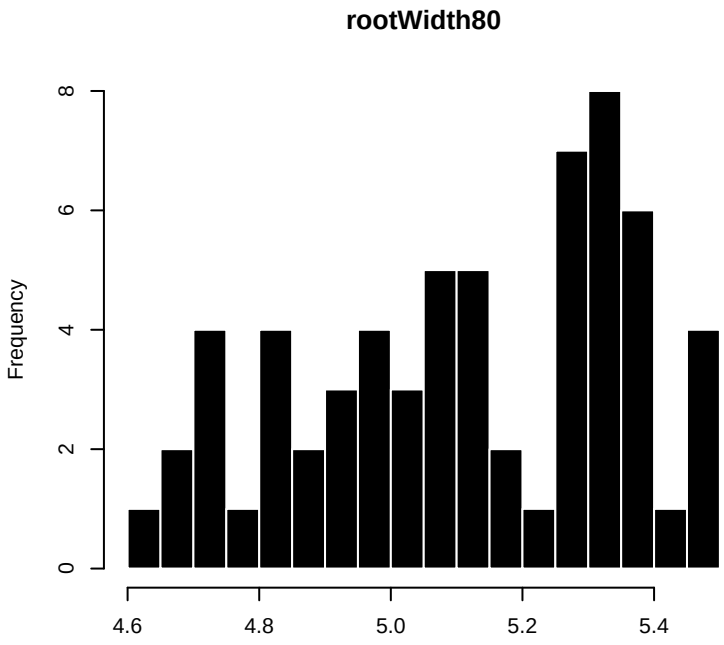

lambda 0.002
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
Expected (−logP)

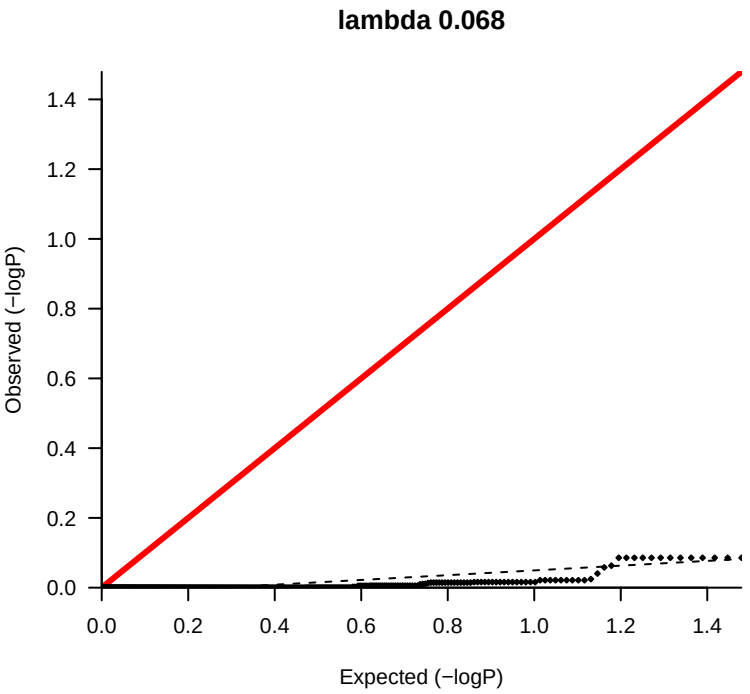

rootWidth40
Frequency
0
2
4
6
8
5.0
5.2
5.4
5.6

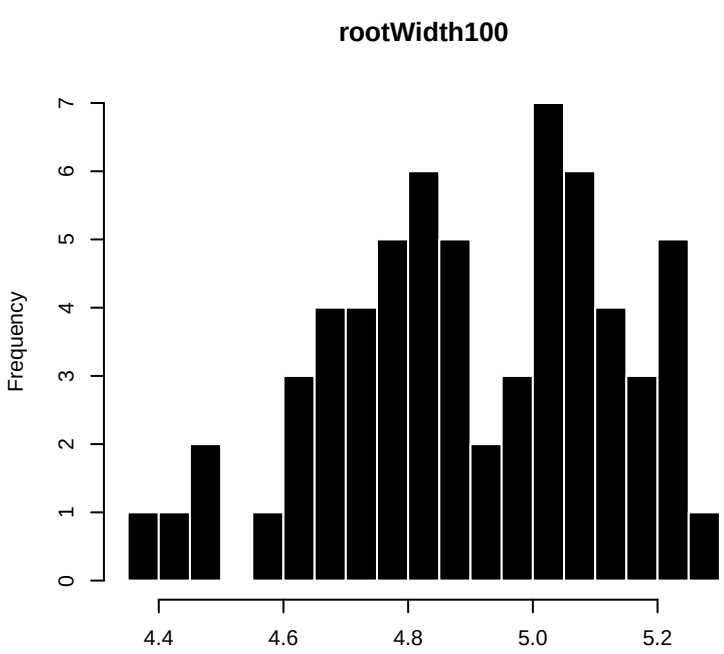

lambda 0.059
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Expected (−logP)

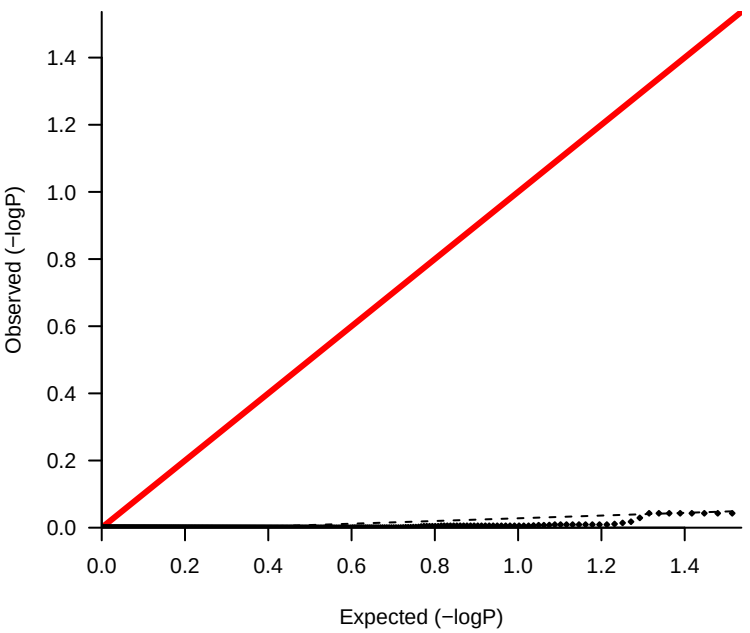

rootWidth60
Frequency
0
1
2
3
4
5
6
7
4.8
5.0
5.2
5.4

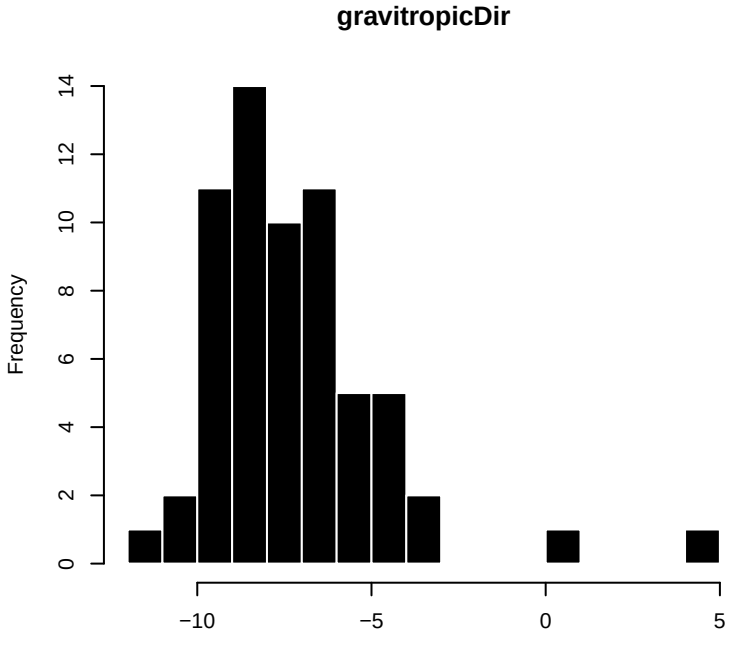

lambda 0.089
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)

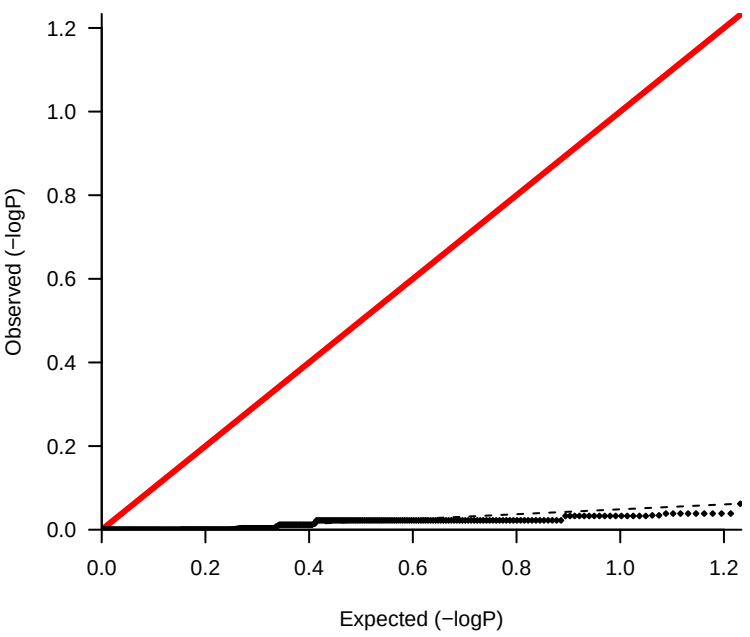

rootWidth80
Frequency
0
2
4
6
8
4.6
4.8
5.0
5.2
5.4

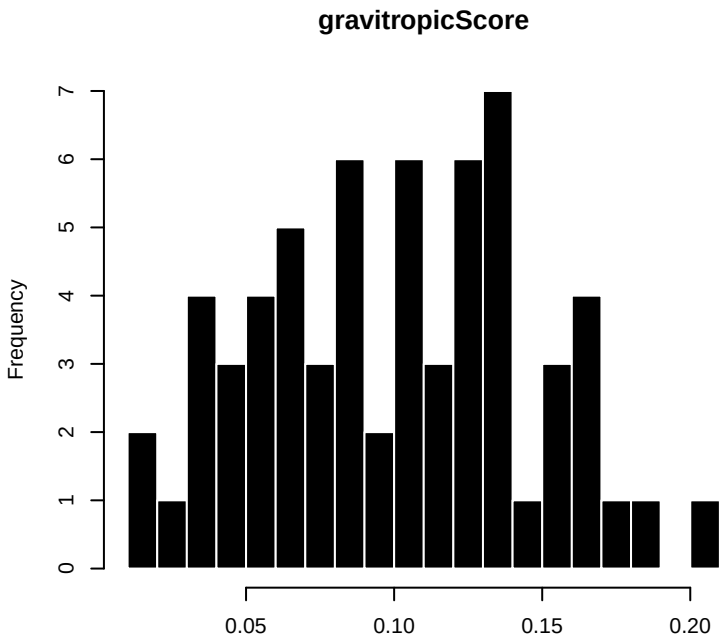

lambda 0.068
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)

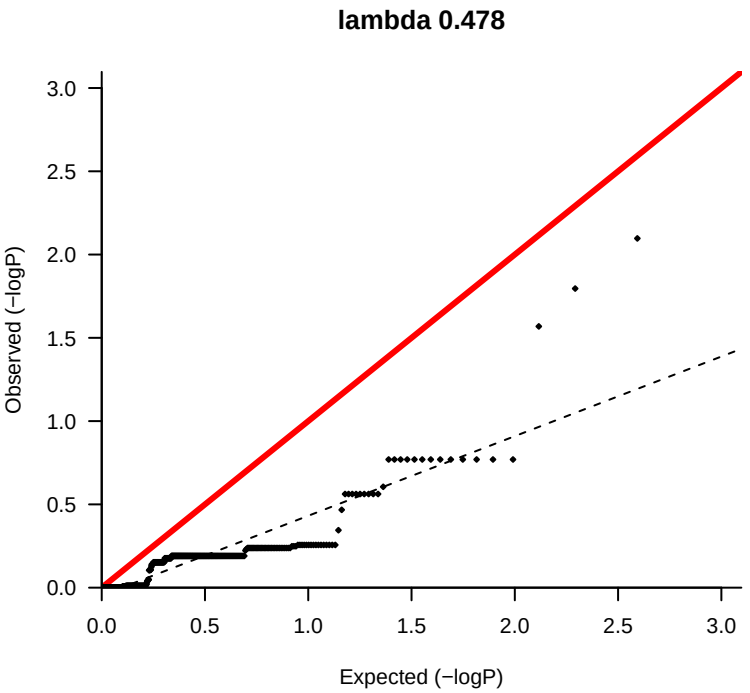

rootWidth100
Frequency
0
1
2
3
4
5
6
7
4.4
4.6
4.8
5.0
5.2

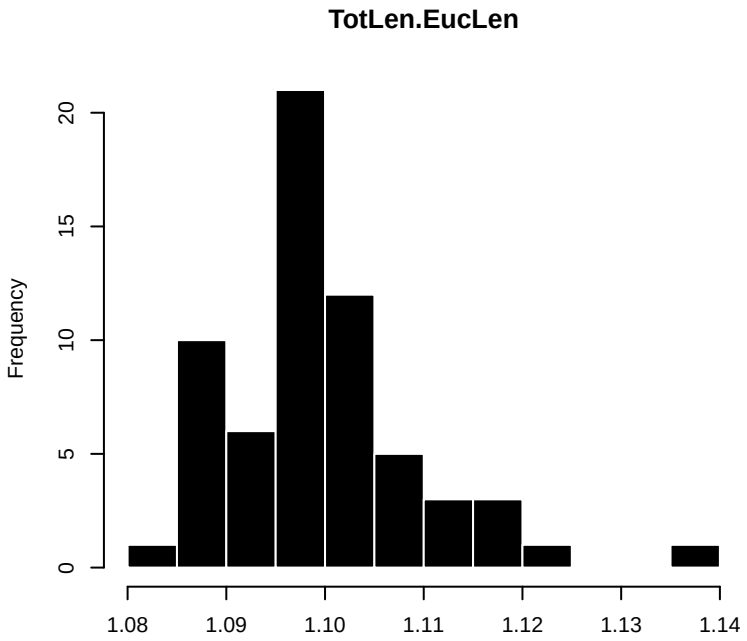

lambda 0.04
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)

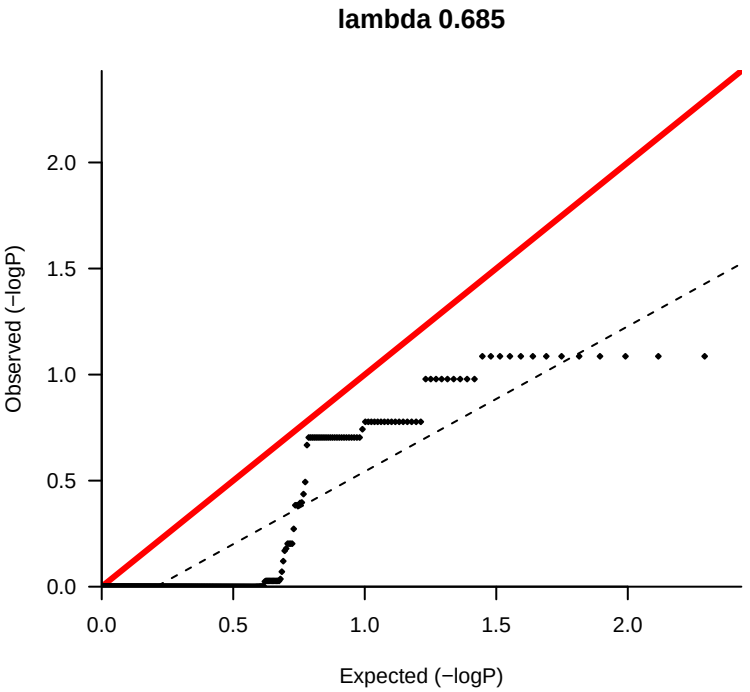

gravitropicDir
Frequency
0
2
4
6
8
10
12
14
−10
−5
0
5

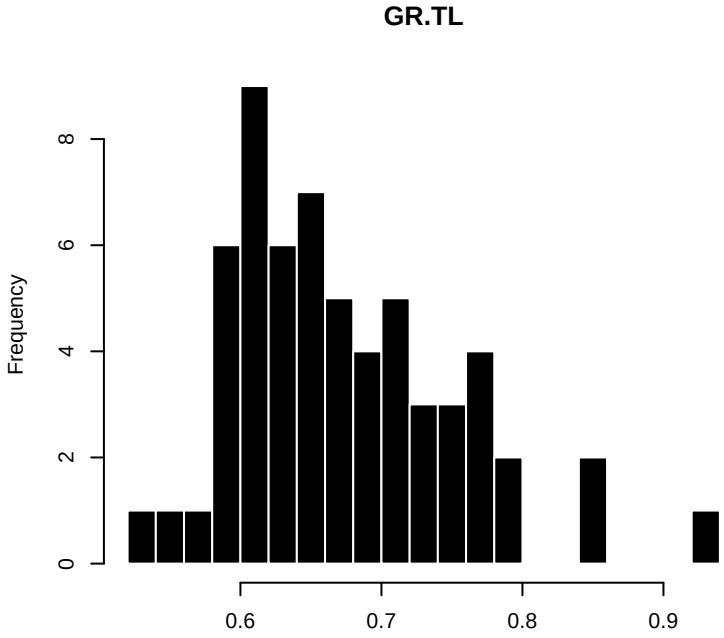

lambda 0.059
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Expected (−logP)

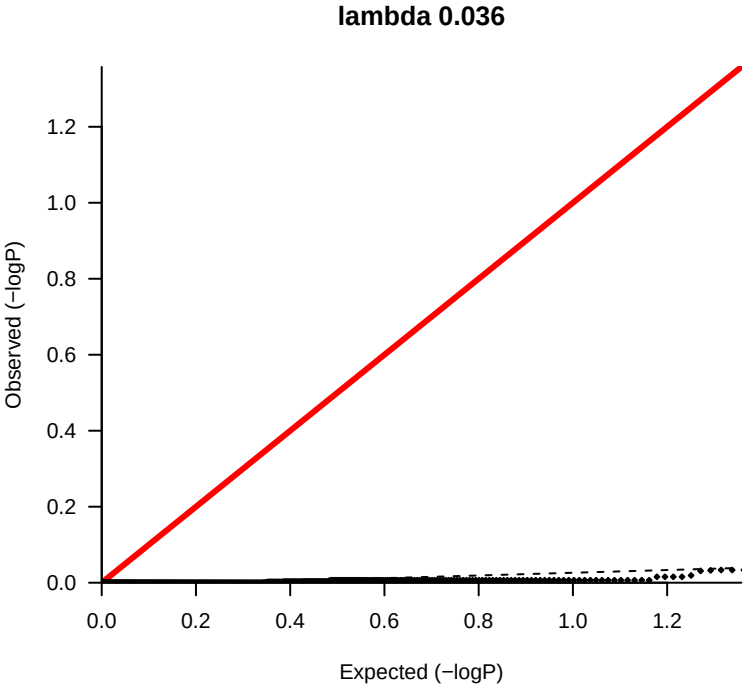

gravitropicScore
Frequency
0
1
2
3
4
5
6
7
0.05
0.10
0.15
0.20

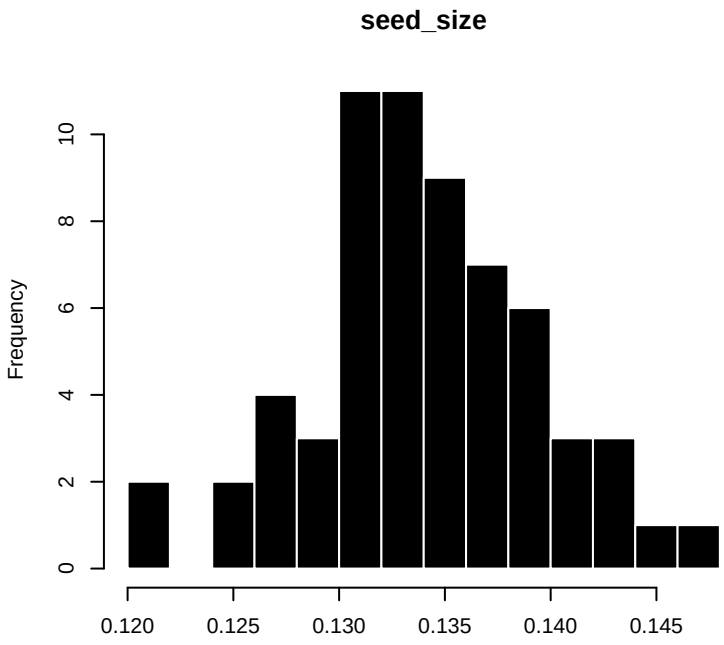

lambda 0.478
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
3.0

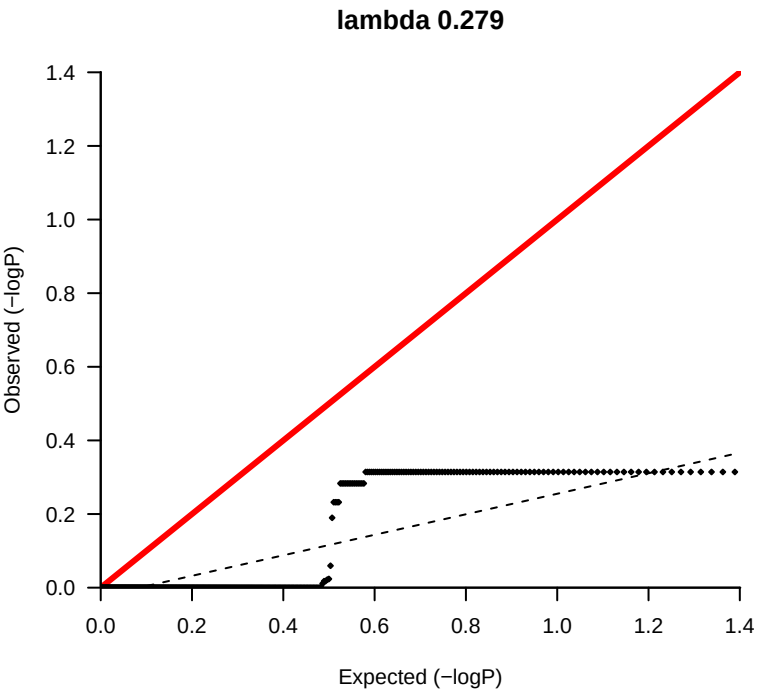

TotLen.EucLen
Frequency
0
5
10
15
20
1.08
1.09
1.10
1.11
1.12
1.13
1.14

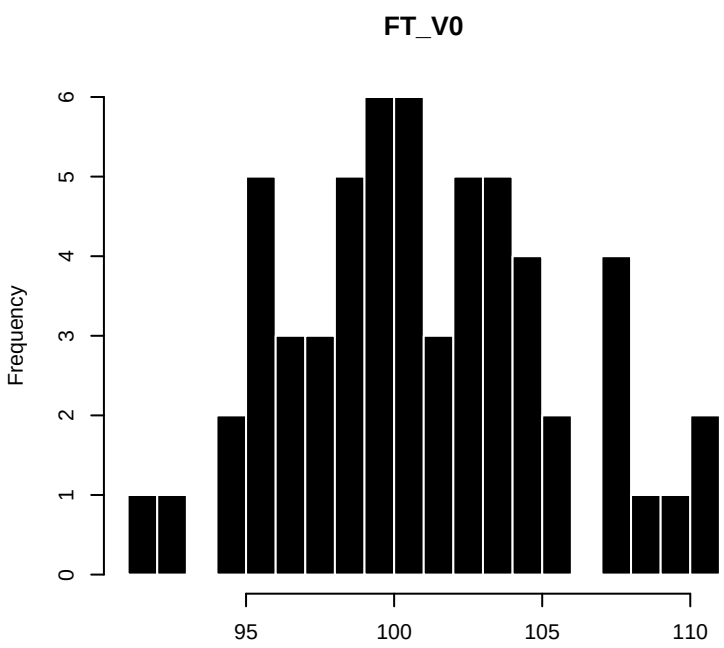

lambda 0.685
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5
2.0

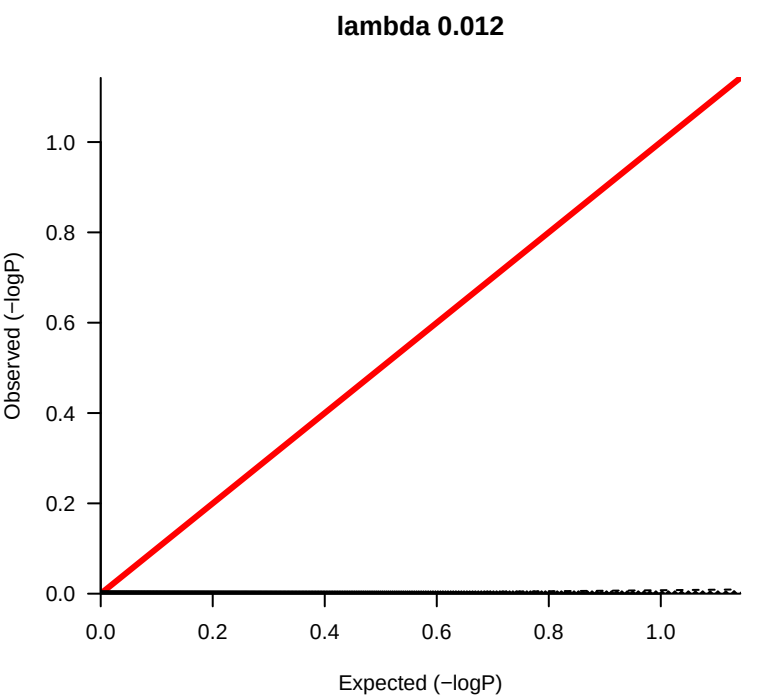

GR.TL
Frequency
0
2
4
6
8
0.6
0.7
0.8
0.9

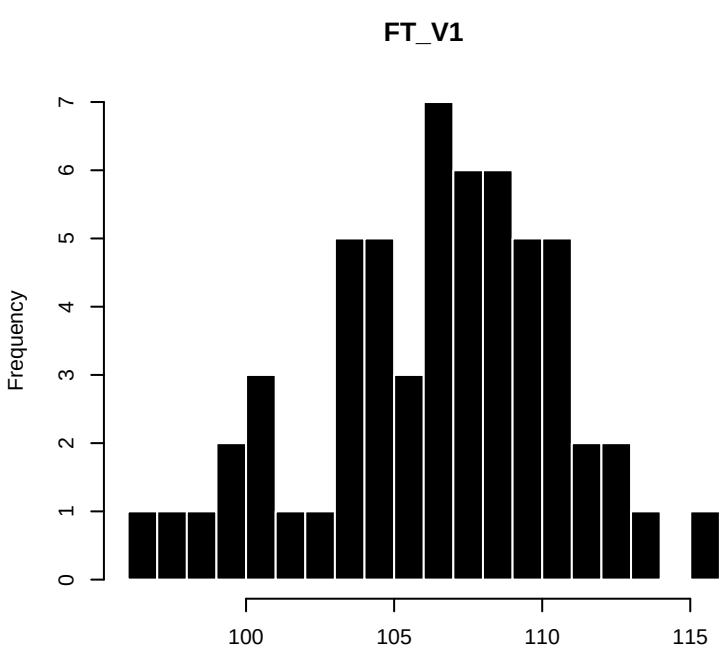

lambda 0.036
Observed (−logP)
Expected (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2

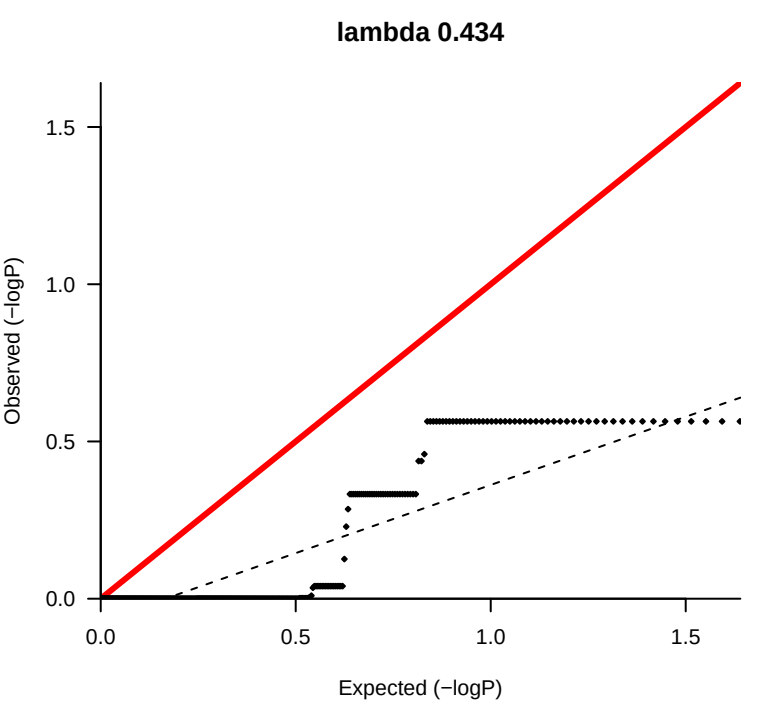

seed_size
Frequency
0
2
4
6
8
10
0.120
0.125
0.130
0.135
0.140
0.145

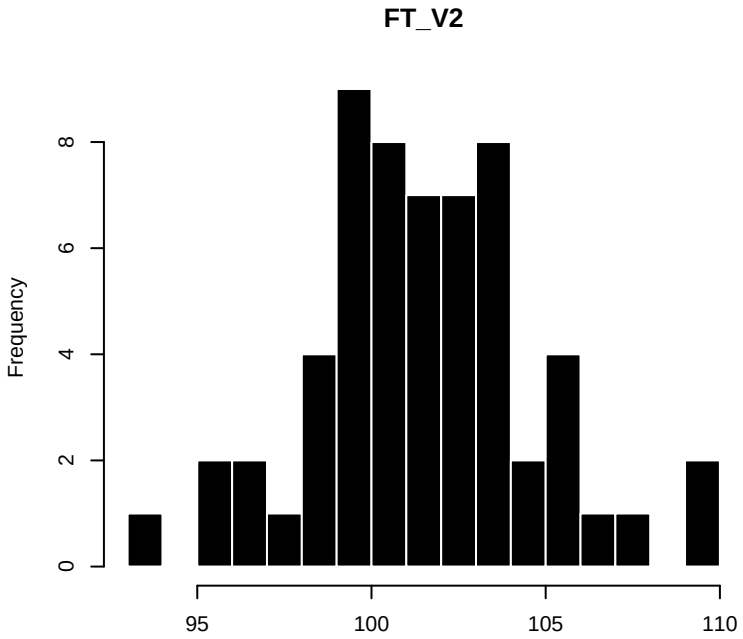

lambda 0.279
Observed (−logP)
Expected (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

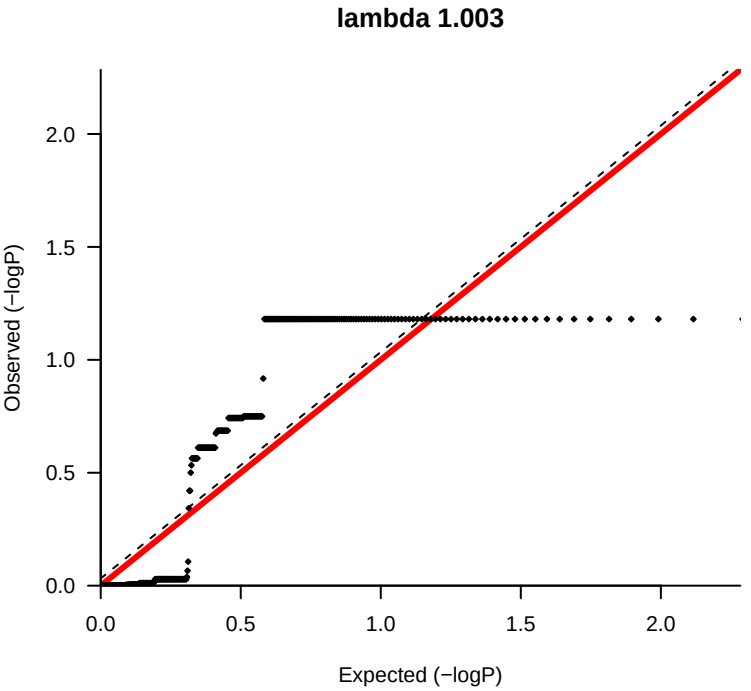

FT_V0
Frequency
0
1
2
3
4
5
6
95
100
105
110

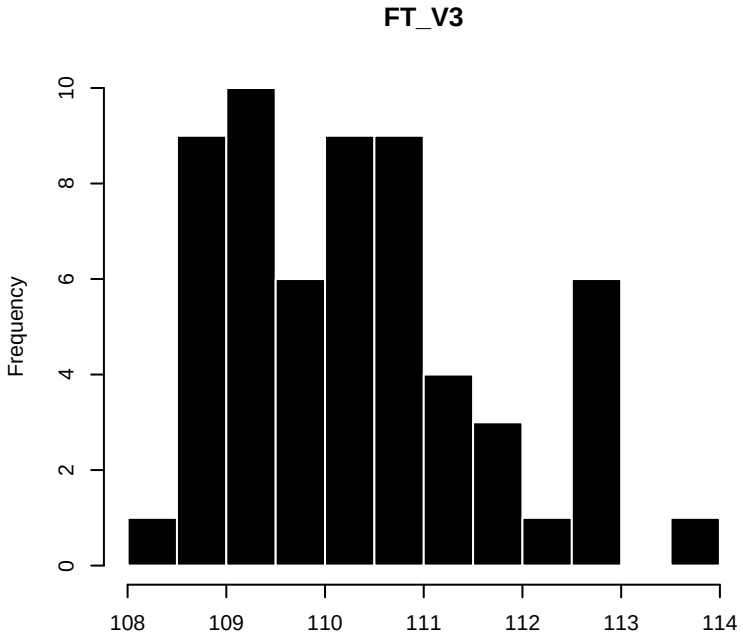

lambda 0.012
Observed (−logP)
Expected (−logP)
0.0
0.2
0.4
0.6
0.8
1.0

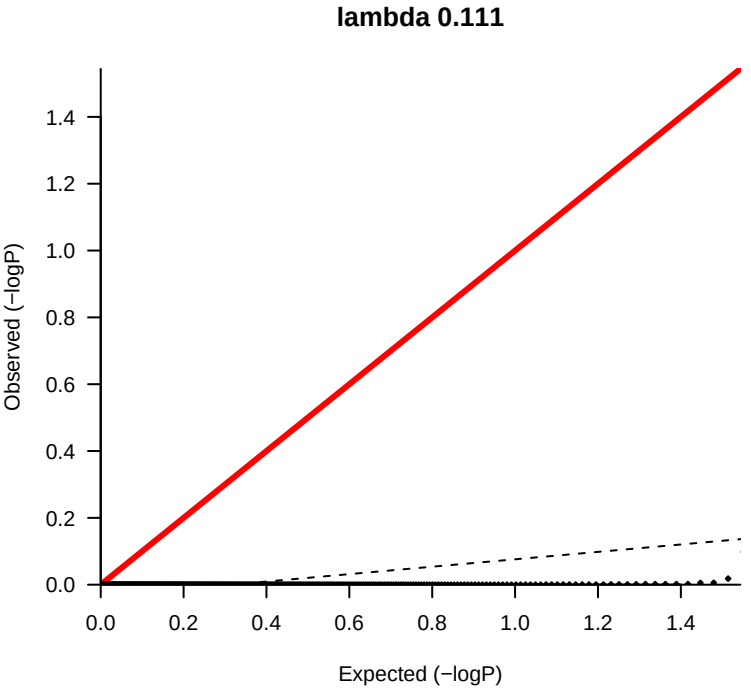

FT_V1
Frequency
0
1
2
3
4
5
6
7
100
105
110
115

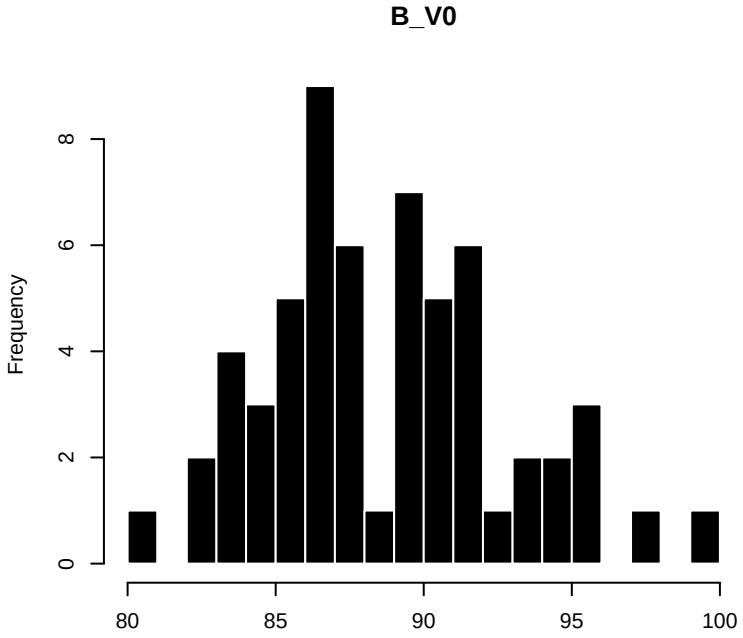

lambda 0.434
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5

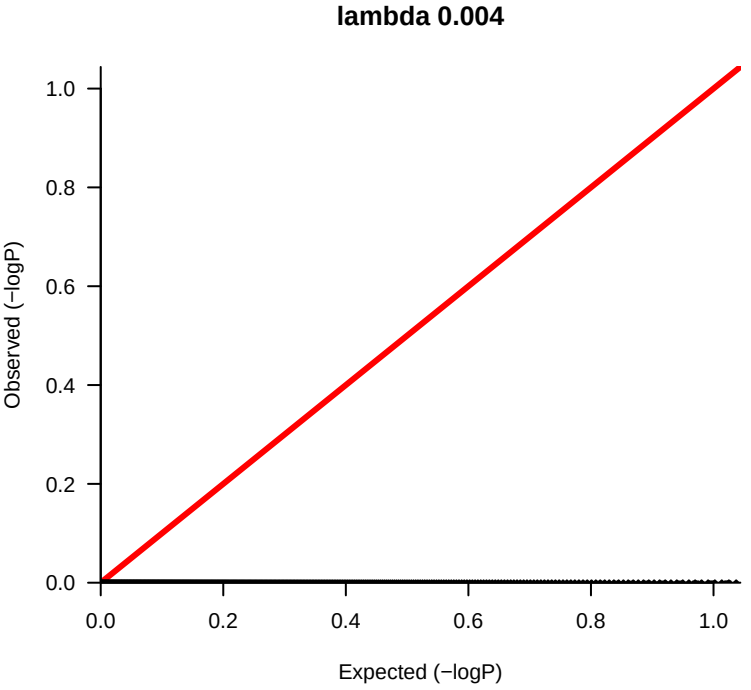

FT_V2
Frequency
0
2
4
6
8
95
100
105
110

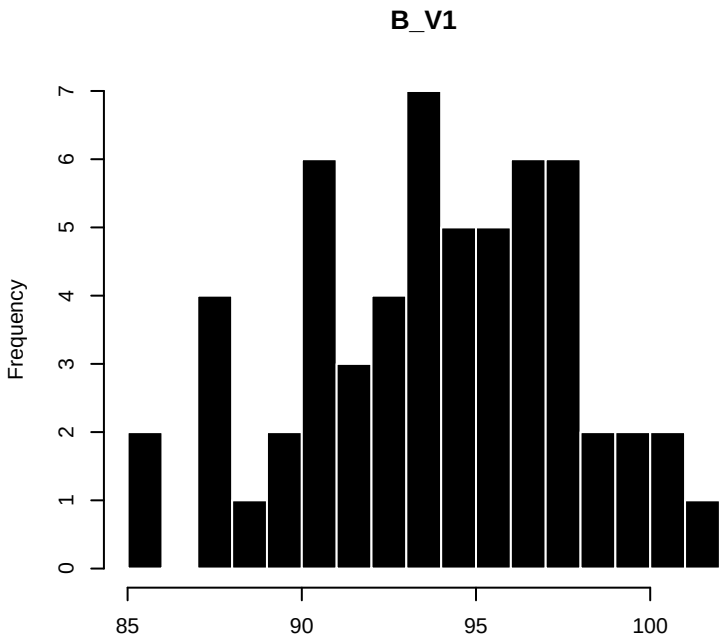

lambda 1.003
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

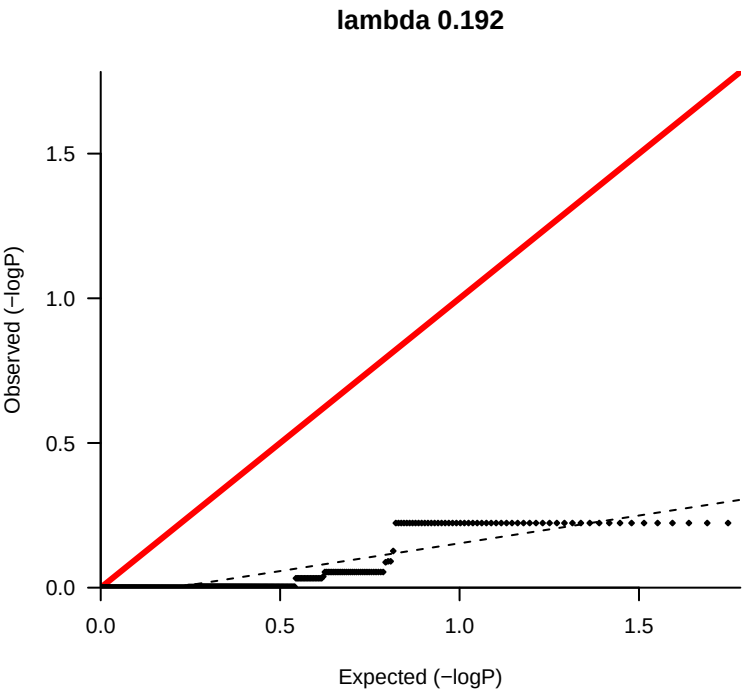

FT_V3
Frequency
0
2
4
6
8
10
108
109
110
111
112
113
114

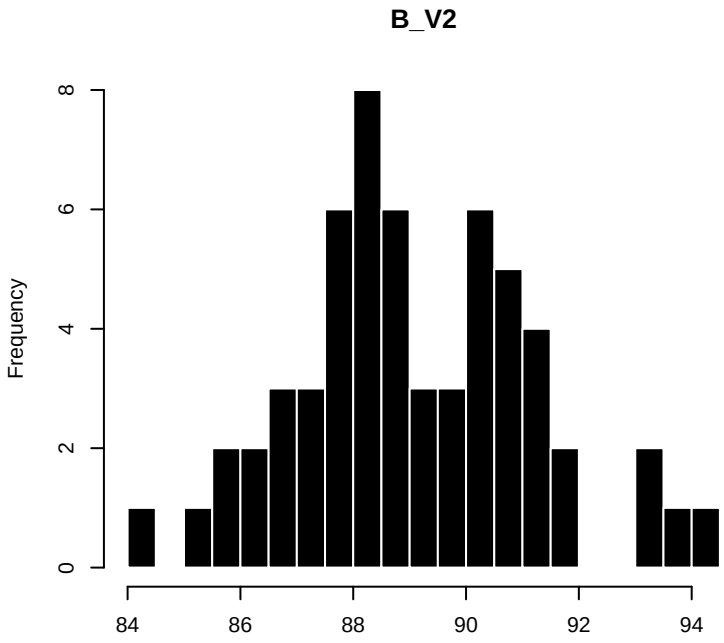

lambda 0.111
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)

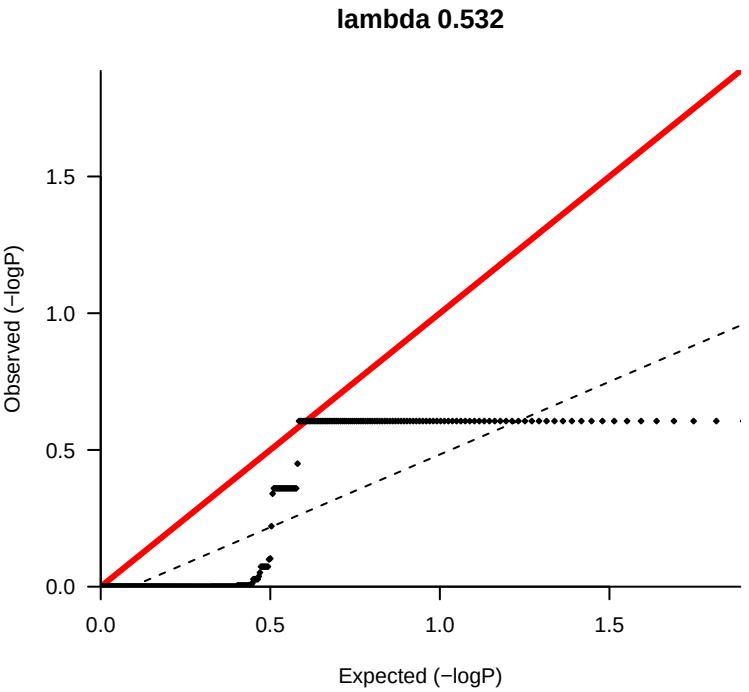

B_V0
Frequency
0
2
4
6
8
80
85
90
95
100

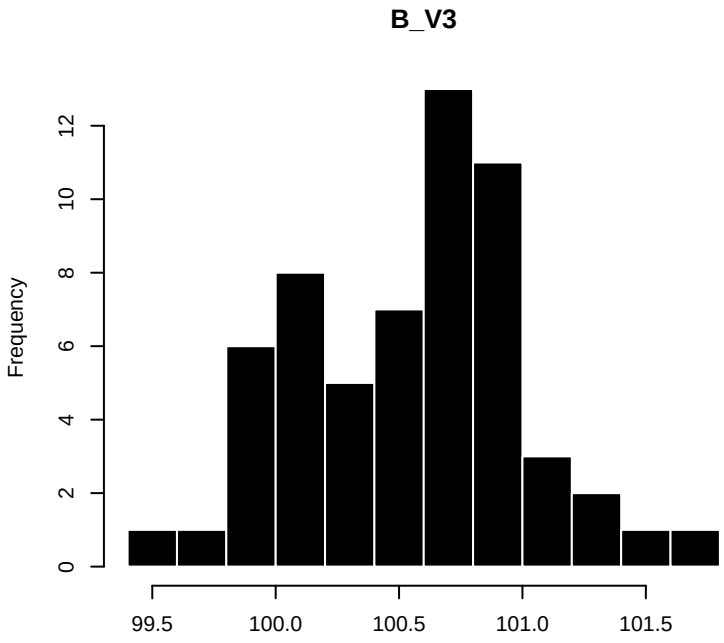

lambda 0.004
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
Expected (−logP)

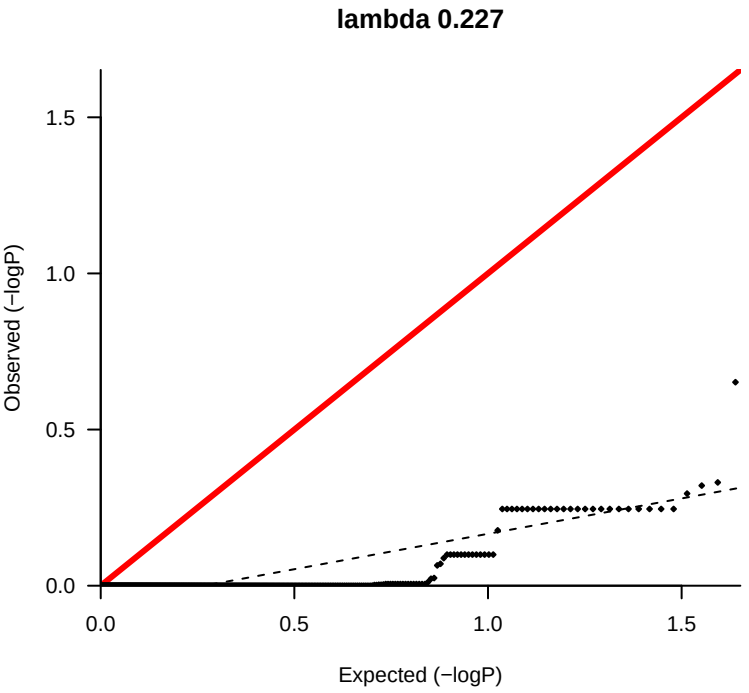

B_V1
Frequency
0
1
2
3
4
5
6
7
85
90
95
100

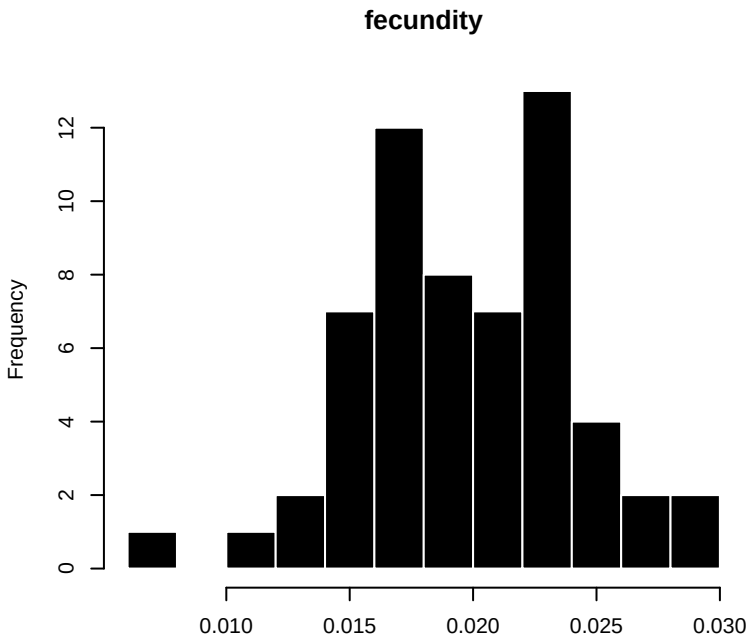

lambda 0.192
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

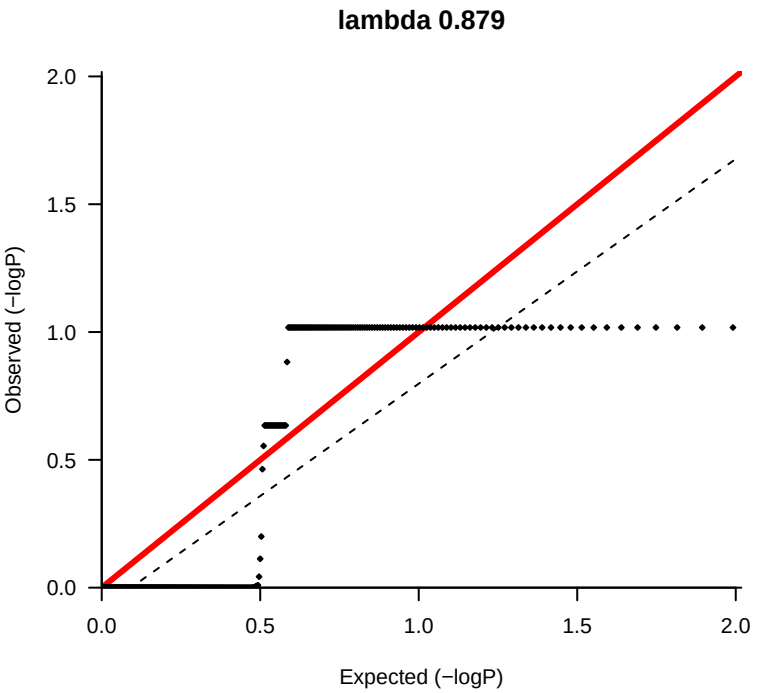

B_V2
Frequency
0
2
4
6
8
84
86
88
90
92
94

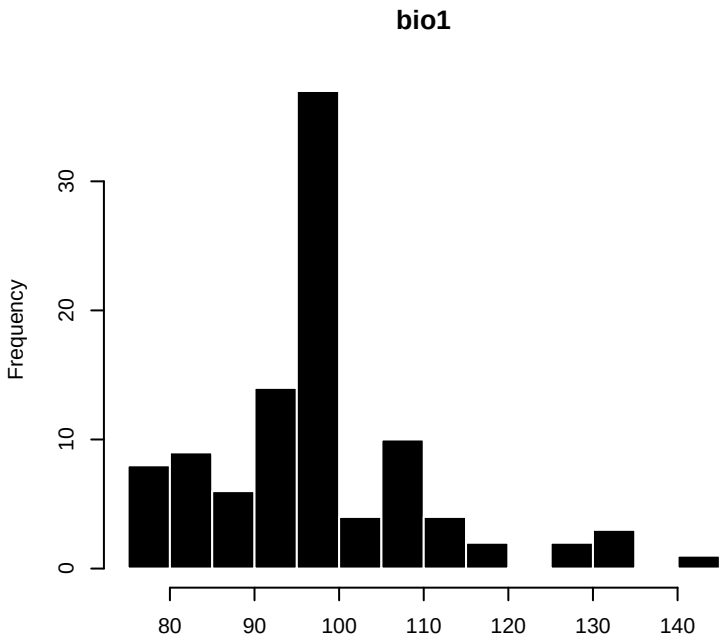

lambda 0.532
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

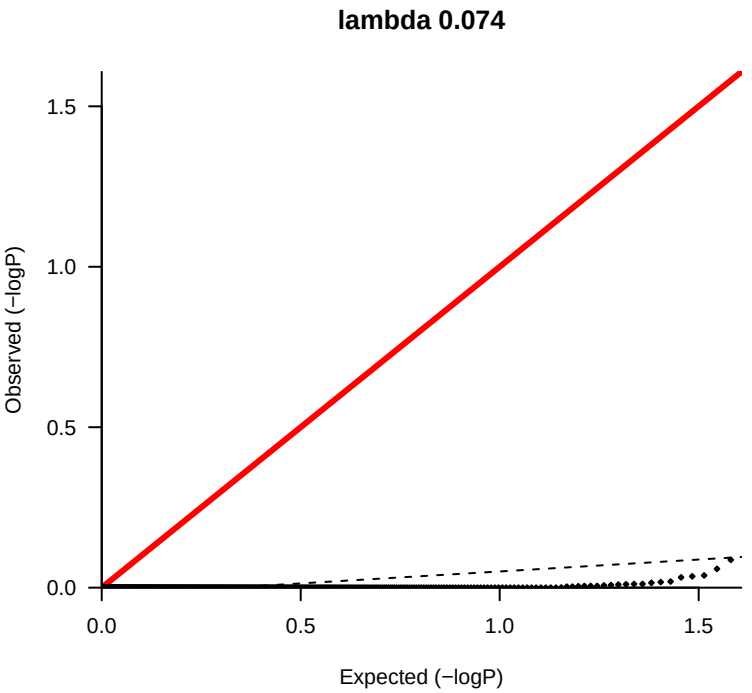

B_V3
Frequency
0
2
4
6
8
10
12
99.5
100.0
100.5
101.0
101.5

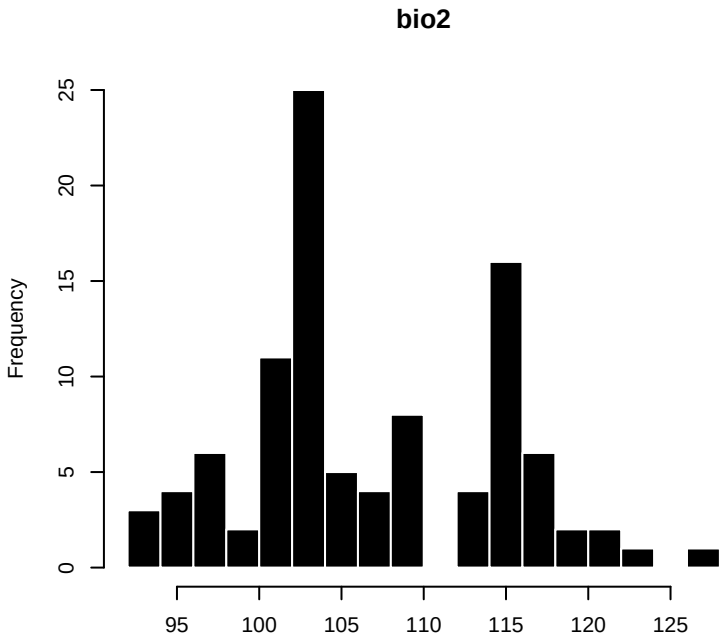

lambda 0.227
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

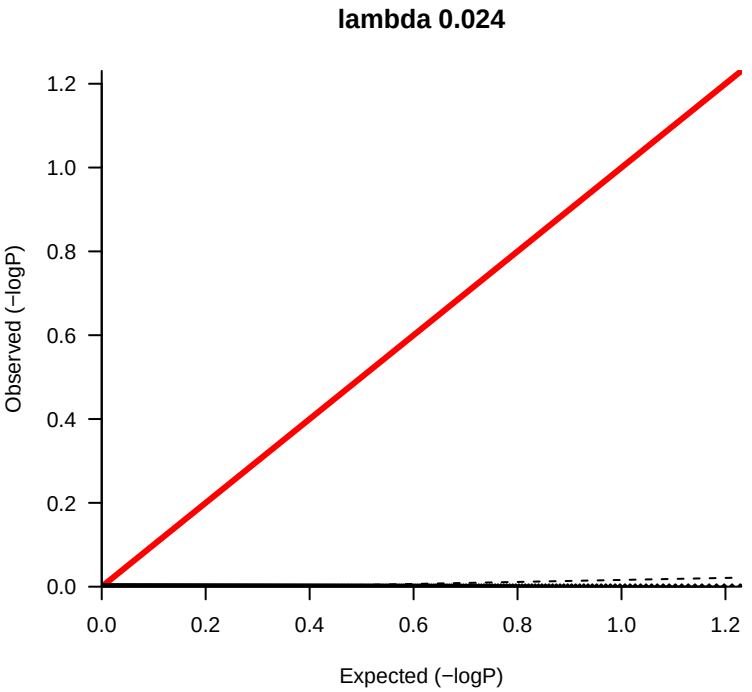

fecundity
Frequency
0
2
4
6
8
10
12
0.010
0.015
0.020
0.025
0.030

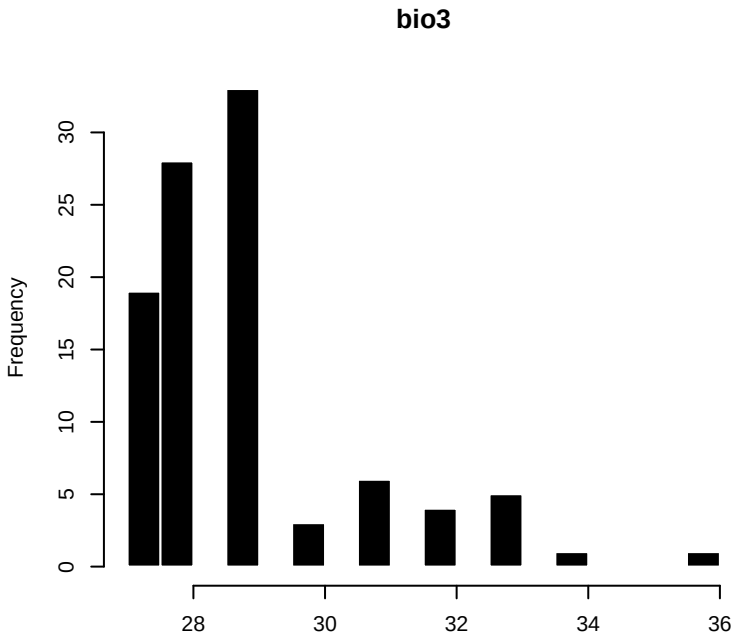

lambda 0.879
Observed (−logP)
Expected (−logP)
0.0
0.5
1.0
1.5
2.0

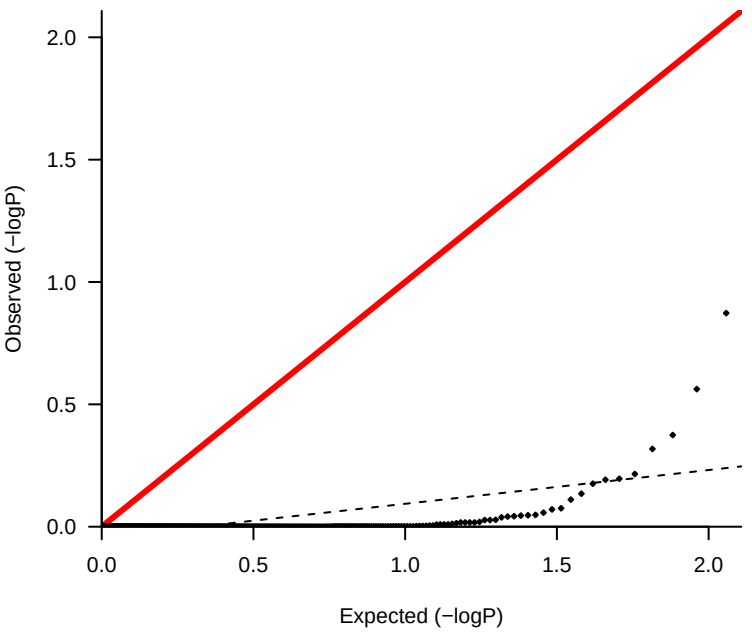

bio1
Frequency
0
10
20
30
80
90
100
110
120
130
140

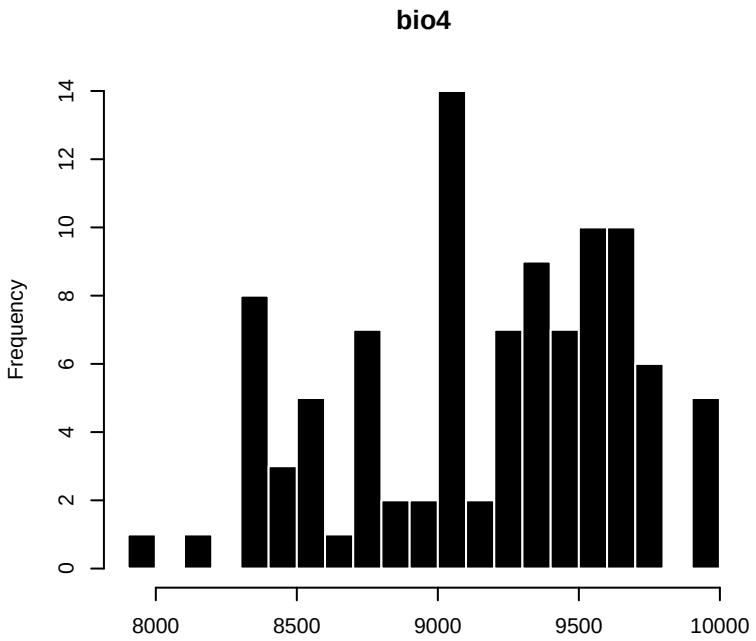

lambda 0.074
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

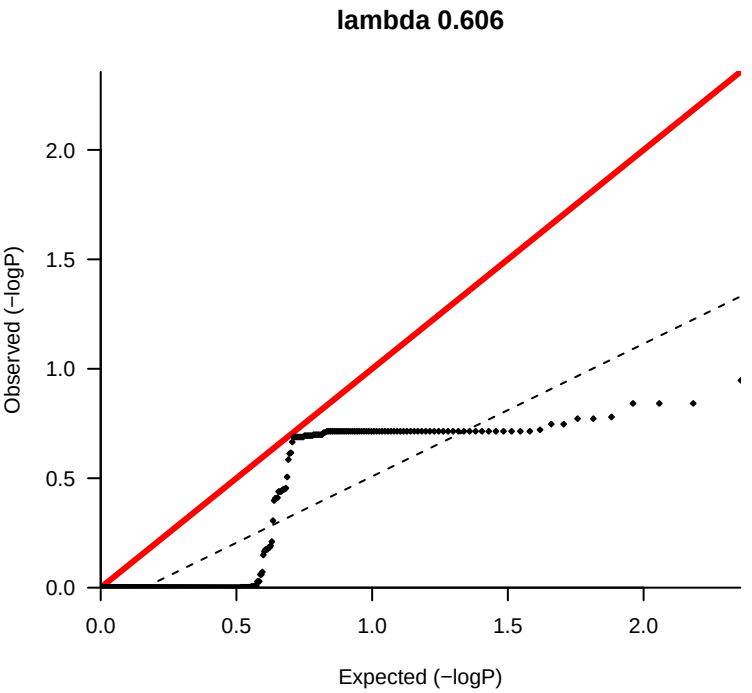

bio2
Frequency
0
5
10
15
20
25
95
100
105
110
115
120
125

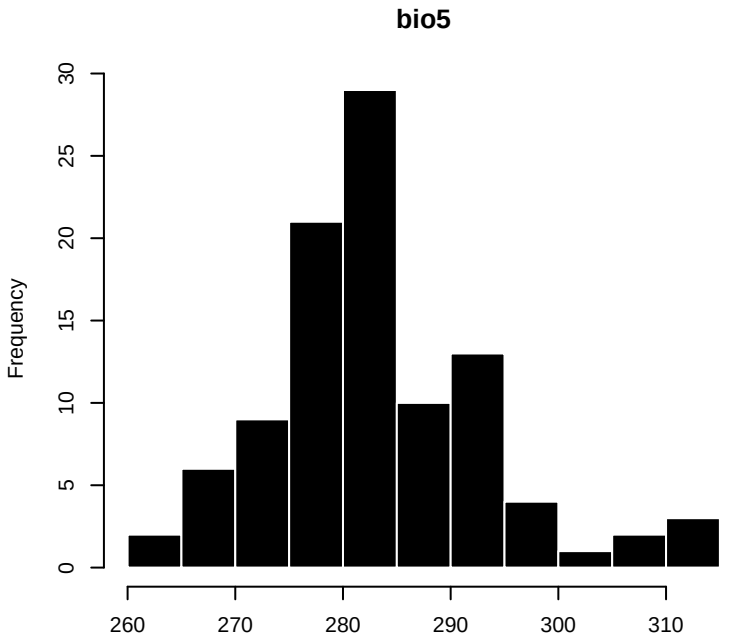

lambda 0.024
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Expected (−logP)

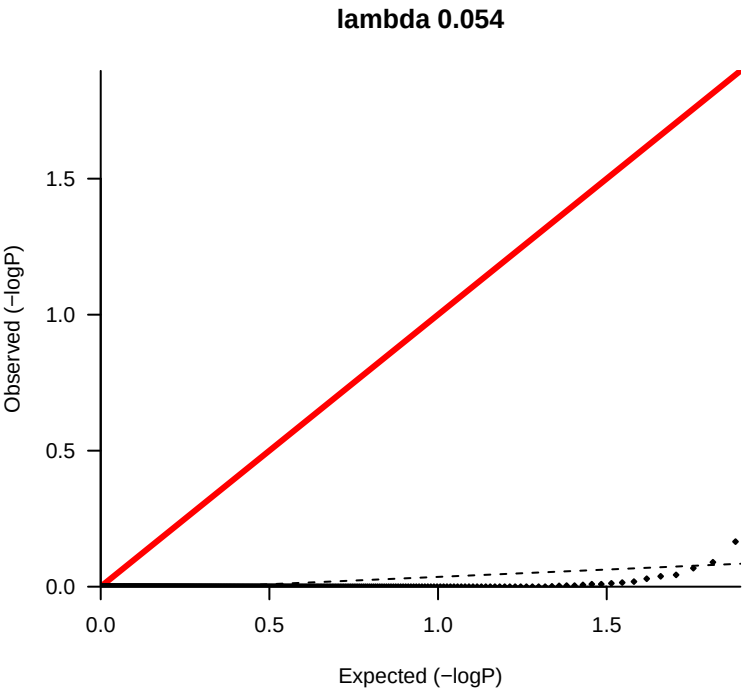

bio3
Frequency
0
5
10
15
20
25
30
28
30
32
34
36

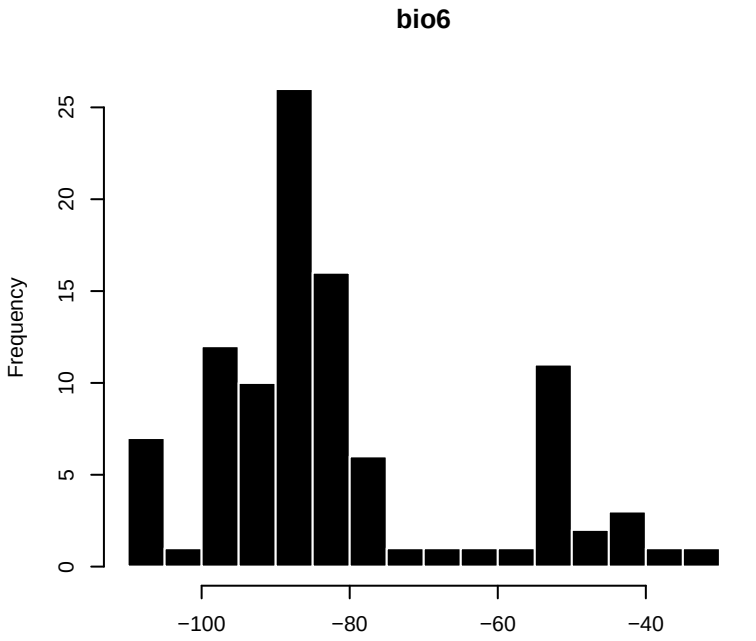

lambda 0.138
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

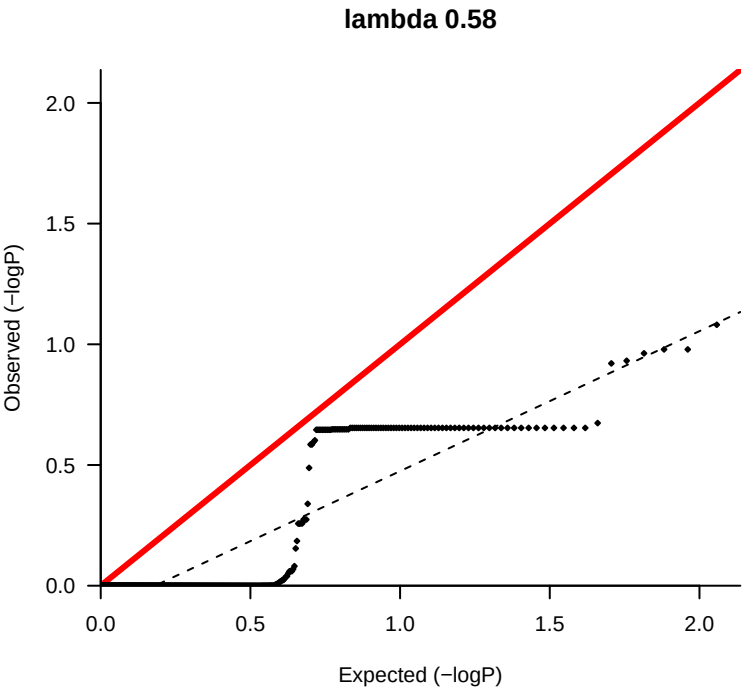

bio4
Frequency
0
2
4
6
8
10
12
14
8000
8500
9000
9500
10000

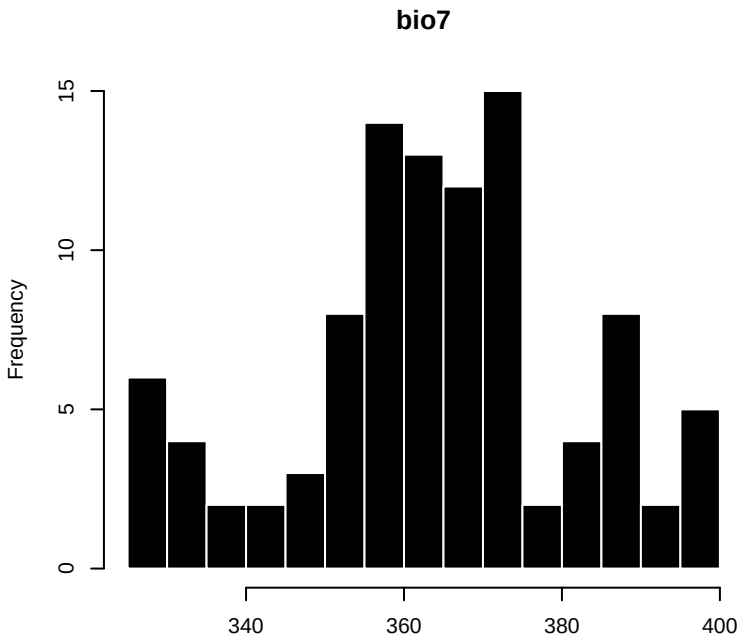

lambda 0.606
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

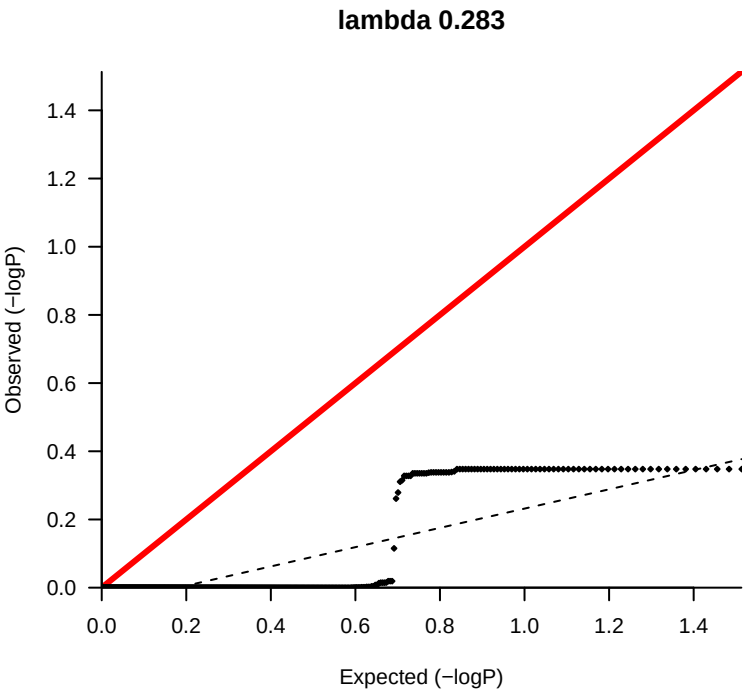

bio5
Frequency
0
5
10
15
20
25
30
260
270
280
290
300
310

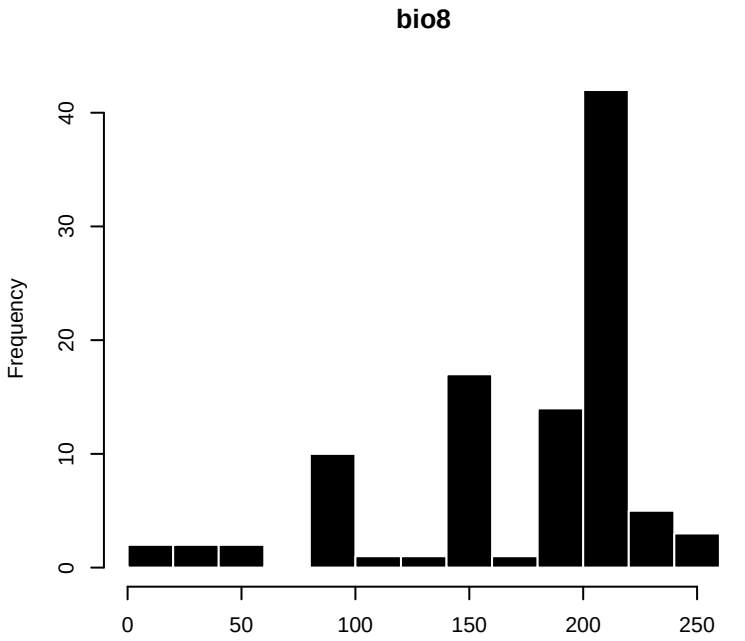

lambda 0.054
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

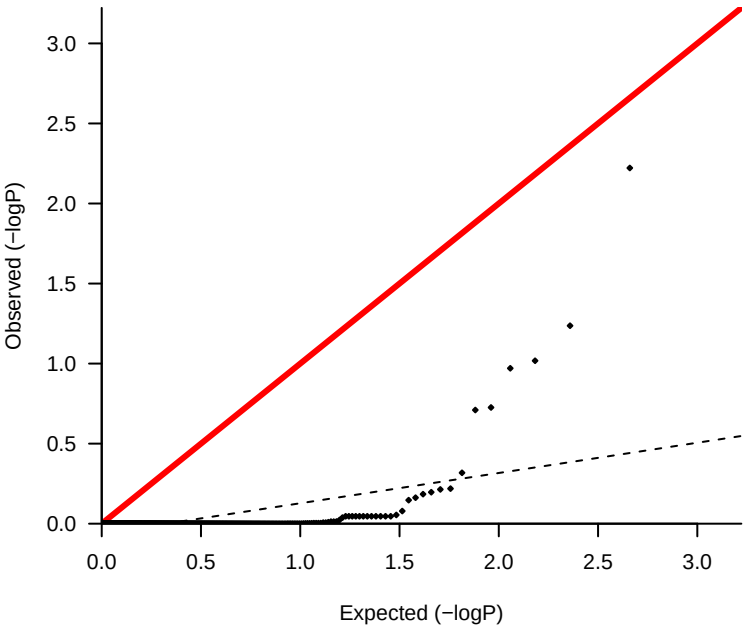

bio6
Frequency
0
5
10
15
20
25
−100
−80
−60
−40

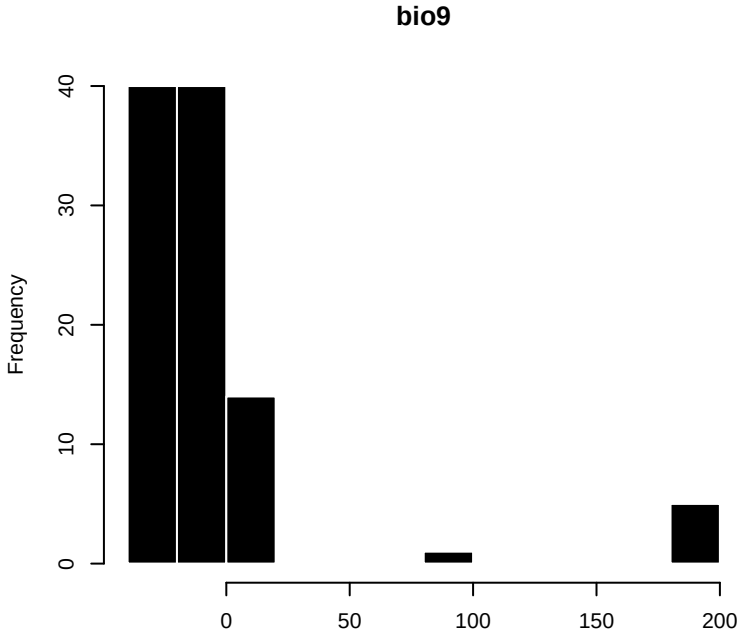

lambda 0.58
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

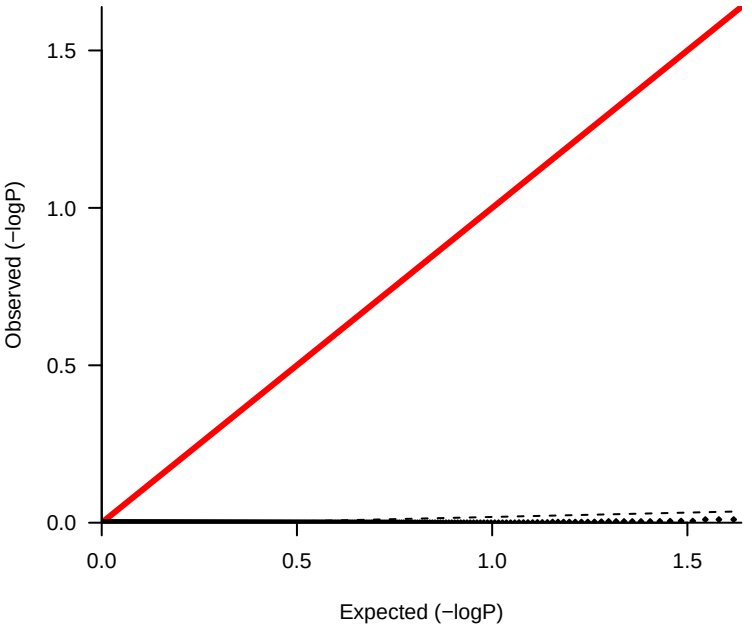

bio7
Frequency
0
5
10
15
340
360
380
400

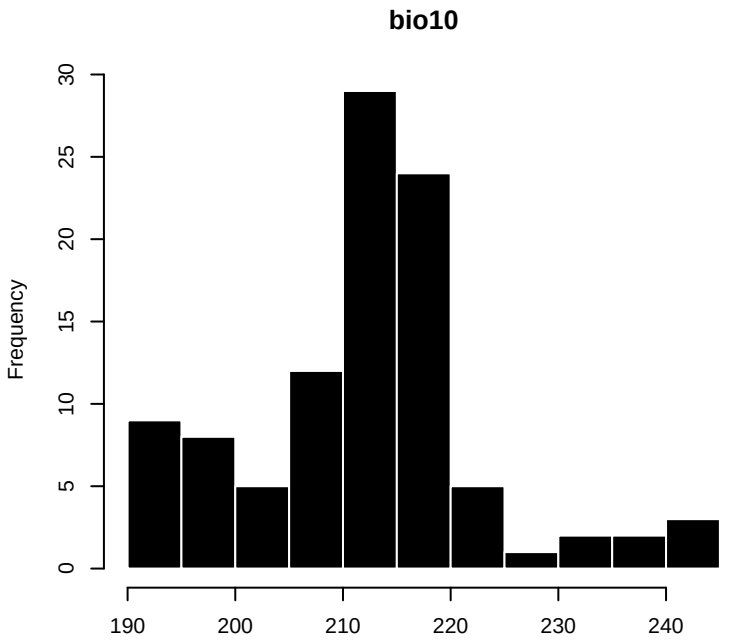

lambda 0.283
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)

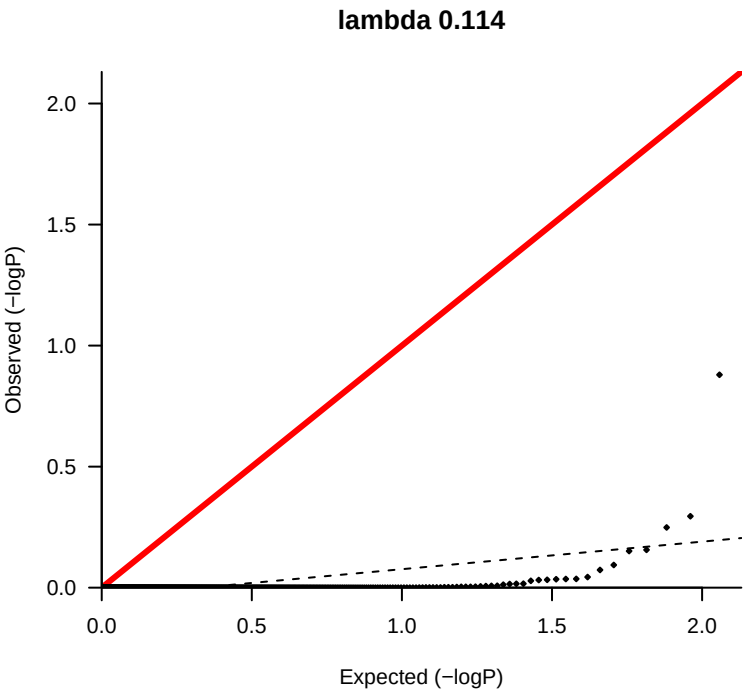

bio8
Frequency
0
10
20
30
40
0
50
100
150
200
250

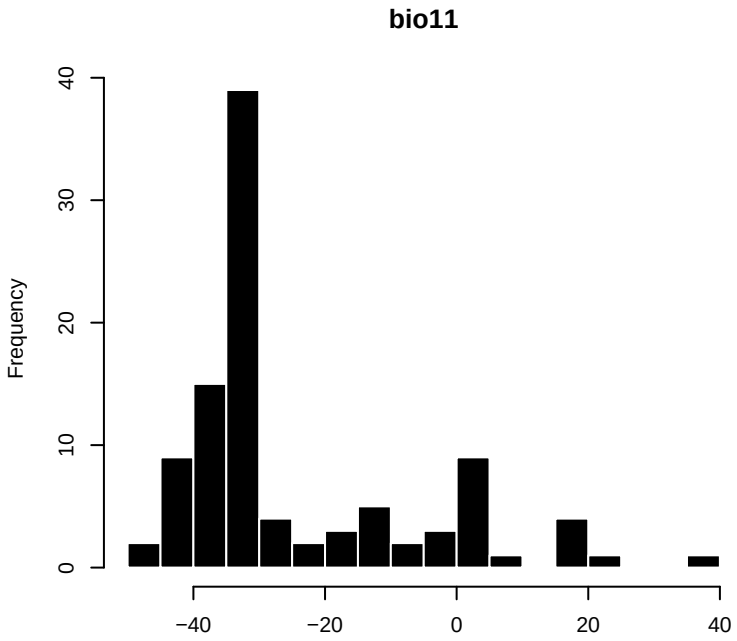

lambda 0.189
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Expected (−logP)

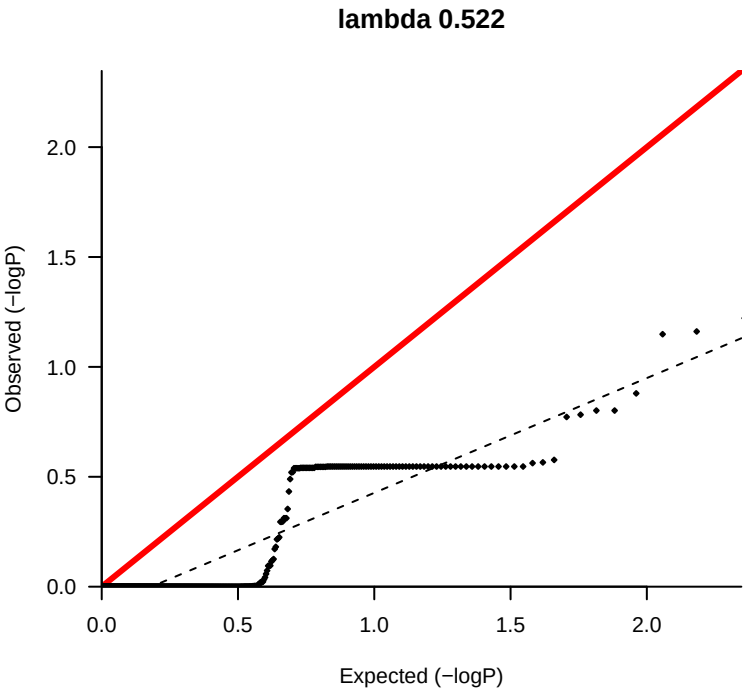

bio9
Frequency
0
10
20
30
40
0
50
100
150
200

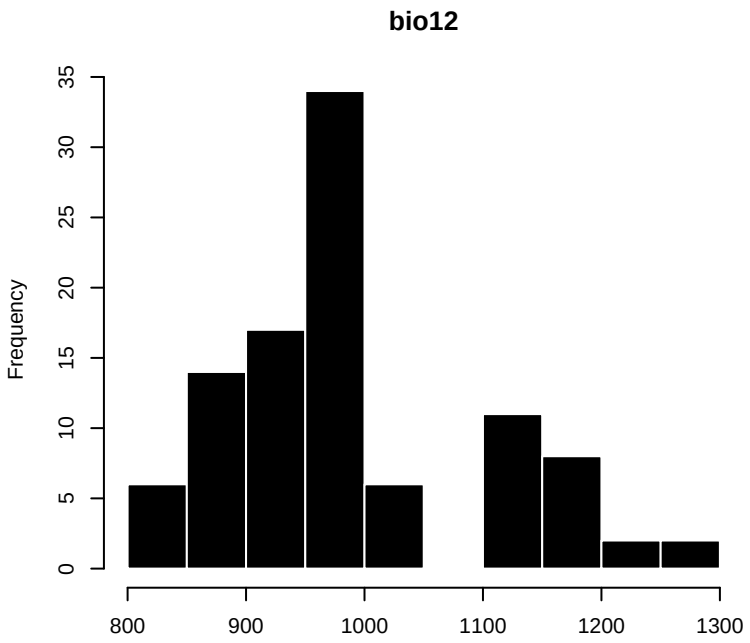

lambda 0.028
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

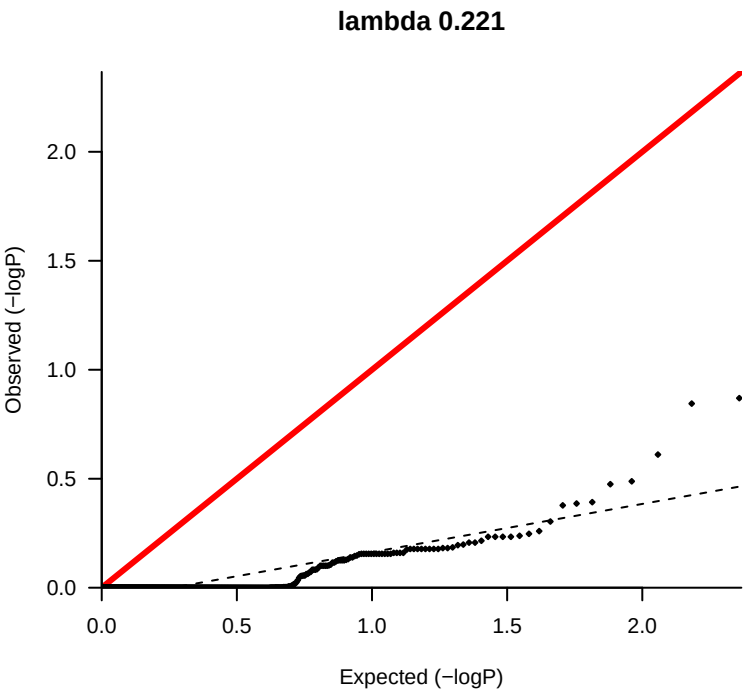

bio10
Frequency
0
5
10
15
20
25
30
190
200
210
220
230
240

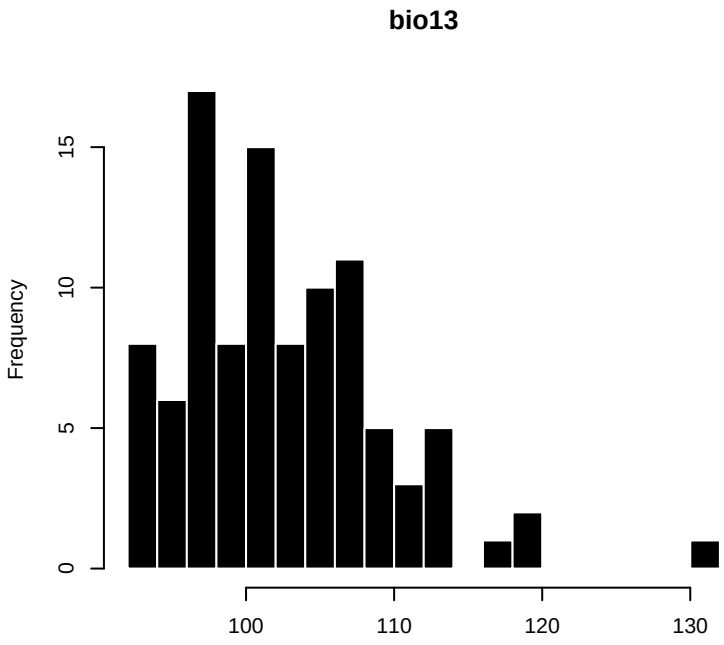

lambda 0.114
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

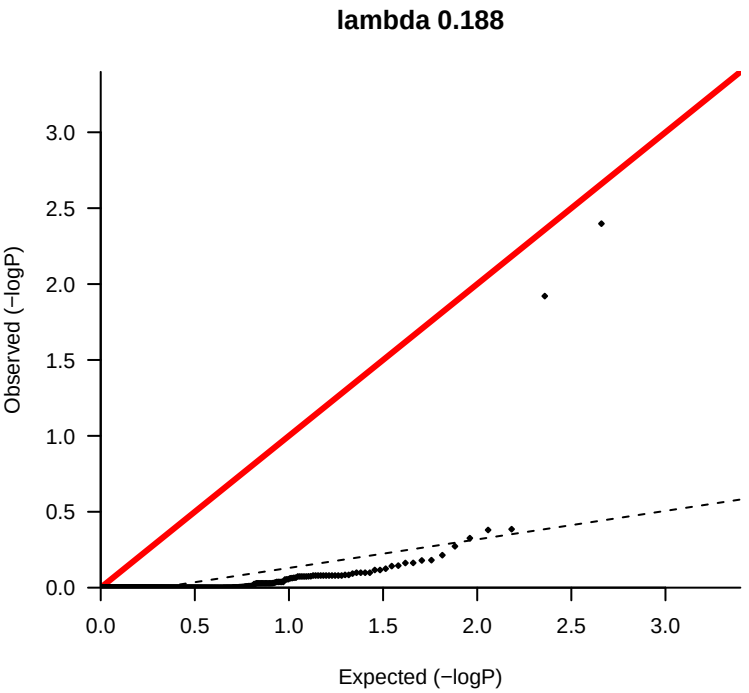

bio11
Frequency
0
10
20
30
40
−40
−20
0
20
40

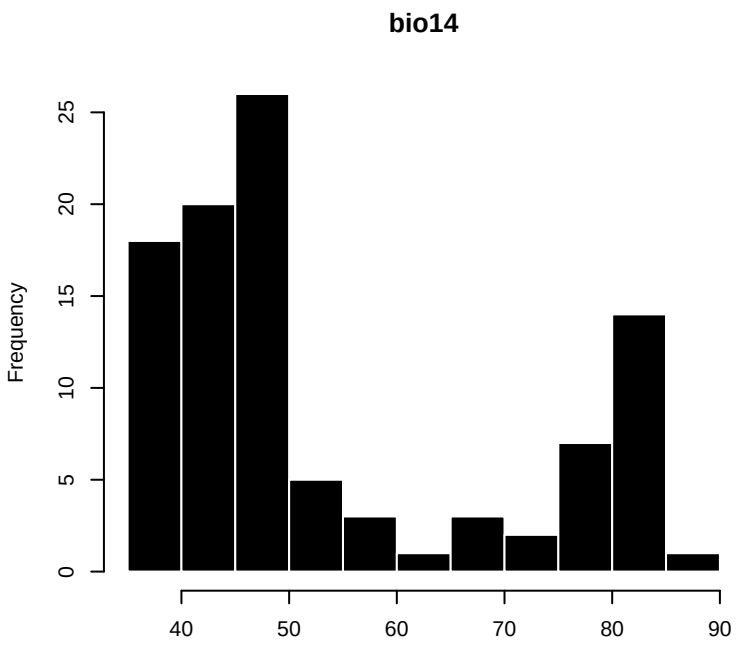

lambda 0.522
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

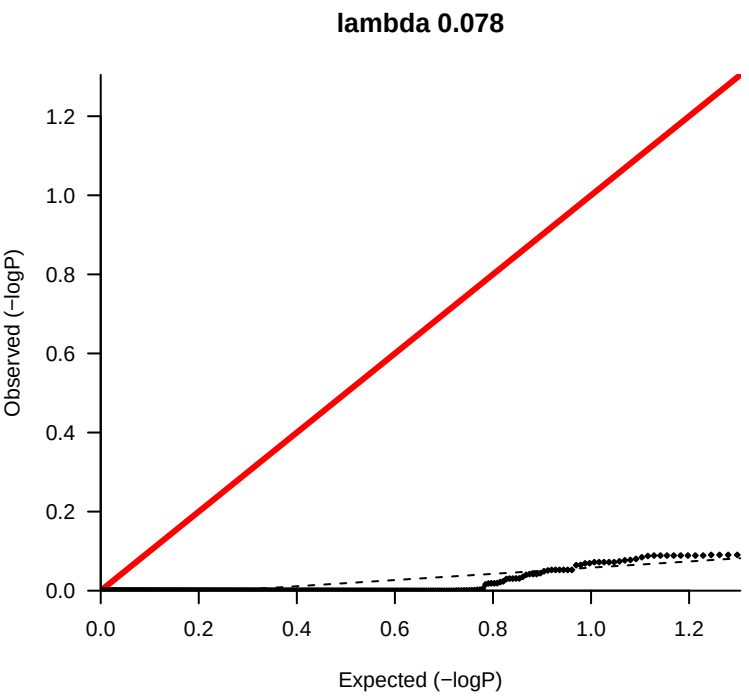

bio12
Frequency
0
5
10
15
20
25
30
35
800
900
1000
1100
1200
1300

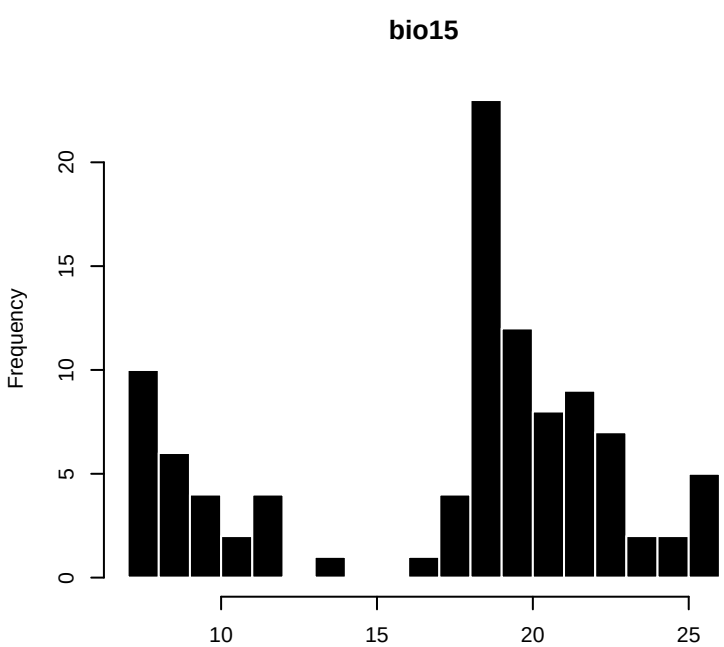

lambda 0.221
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
Expected (−logP)

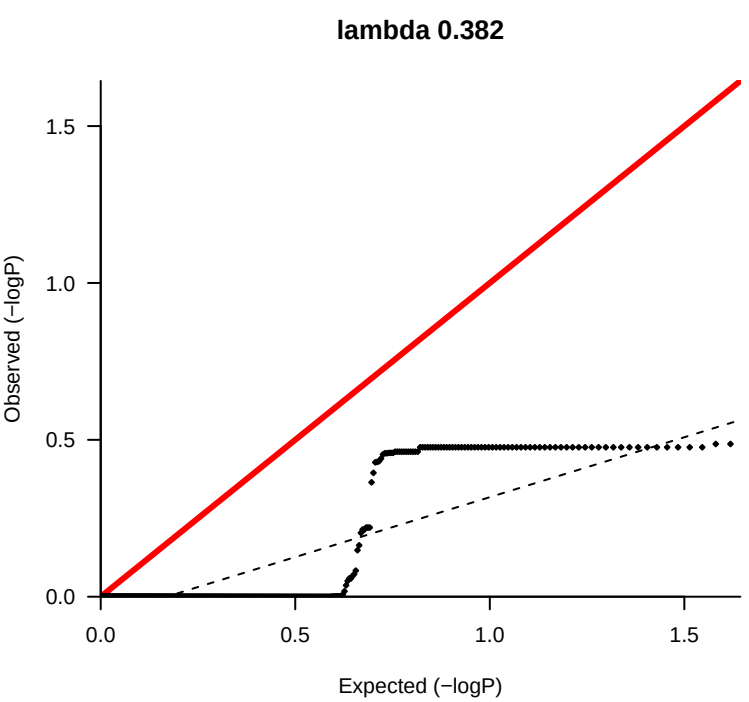

bio13
Frequency
0
5
10
15
100
110
120
130

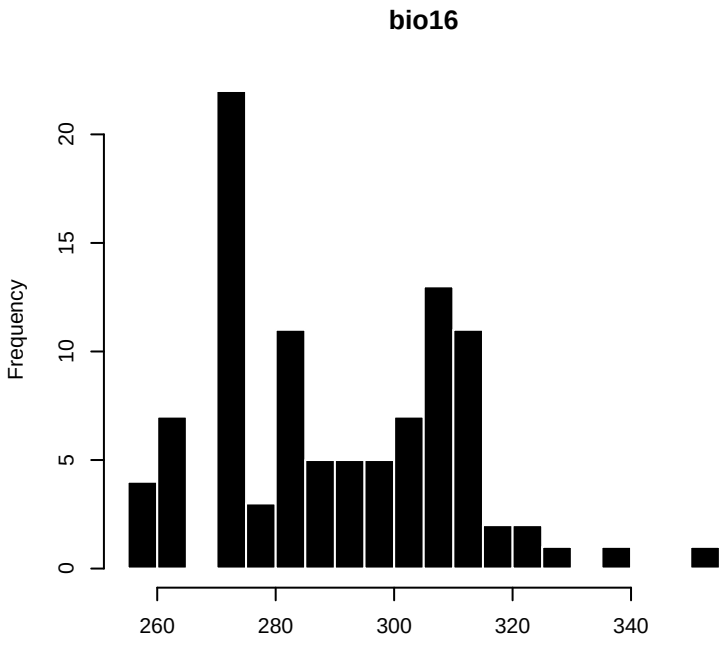

lambda 0.188
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Expected (−logP)

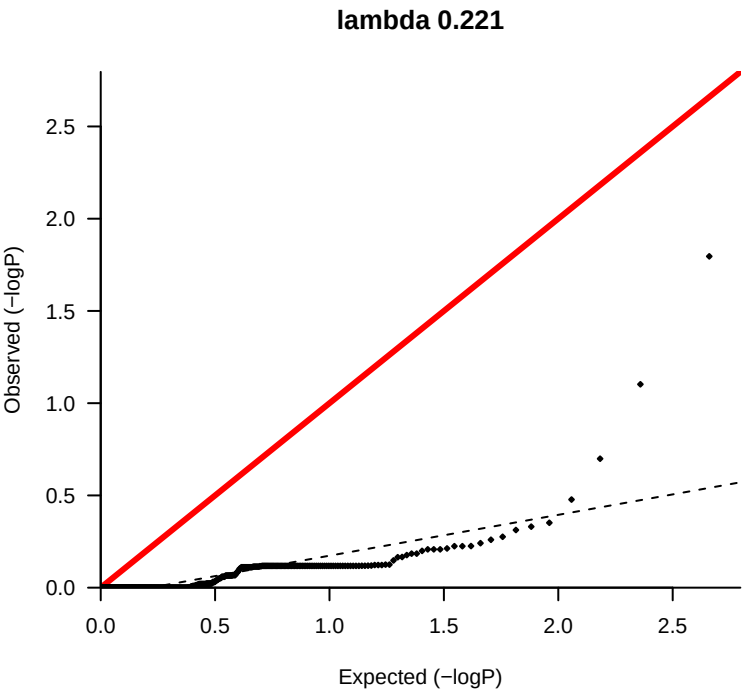

bio14
Frequency
0
5
10
15
20
25
40
50
60
70
80
90

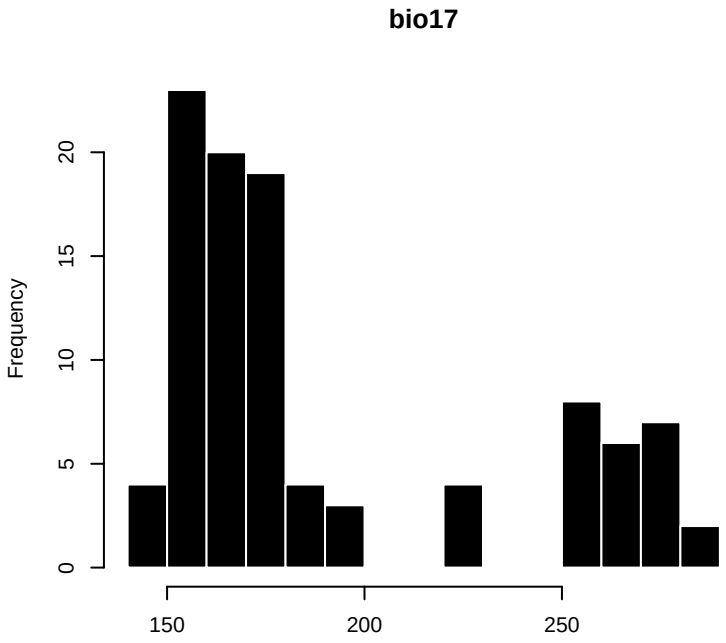

lambda 0.078
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Expected (−logP)

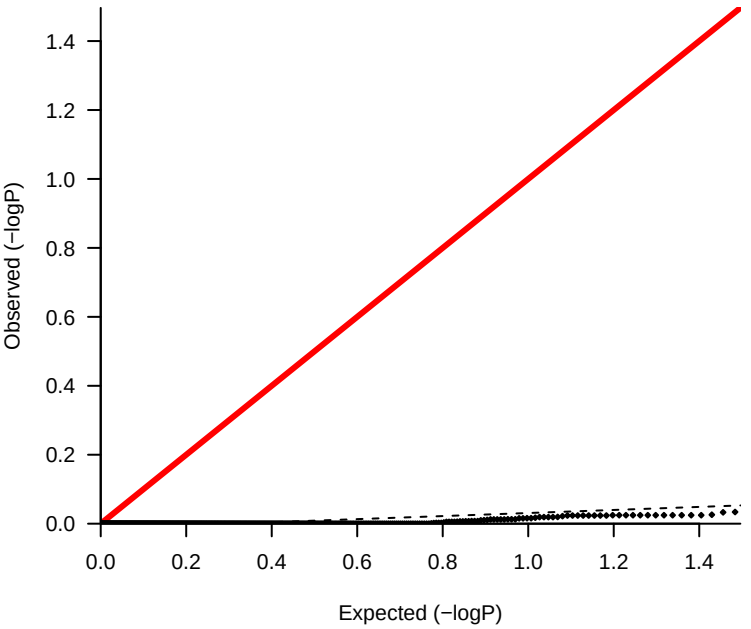

bio15
Frequency
0
5
10
15
20
10
15
20
25

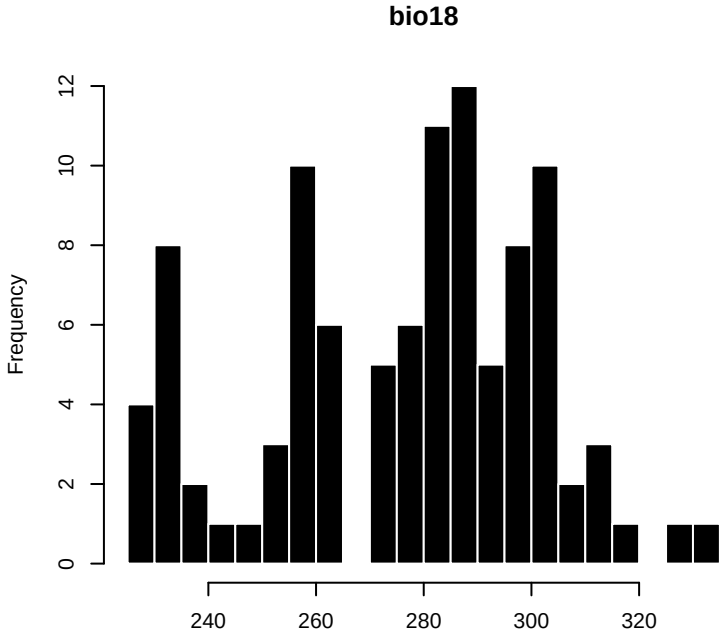

lambda 0.382
Observed (−logP)
0.0
0.5
1.0
1.5
Expected (−logP)

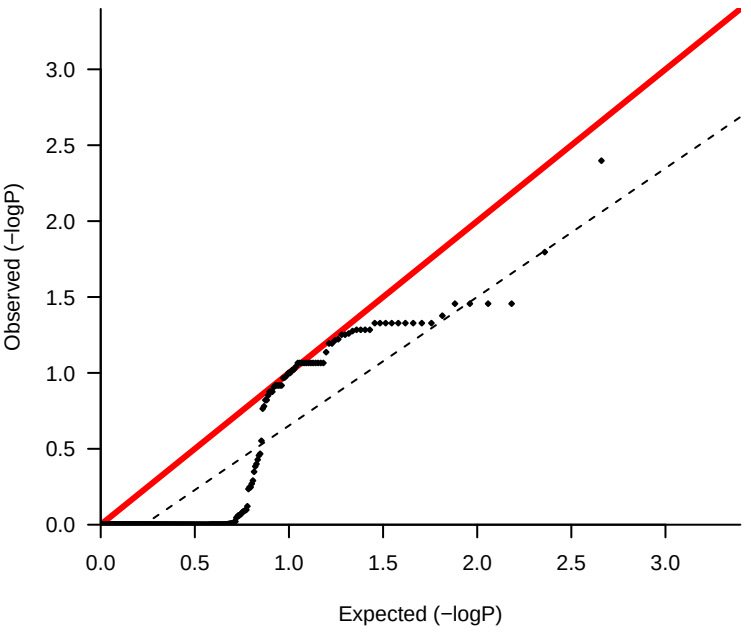

bio16
Frequency
0
5
10
15
20
260
280
300
320
340

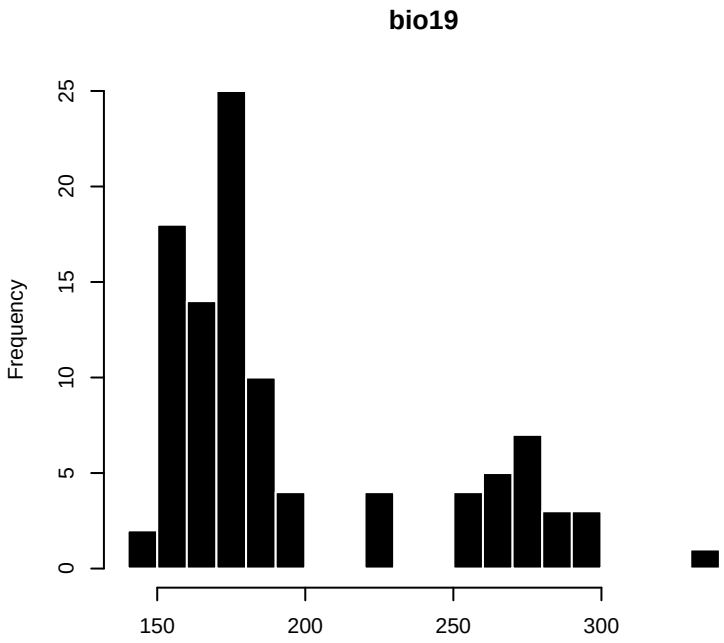

lambda 0.221
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
Expected (−logP)

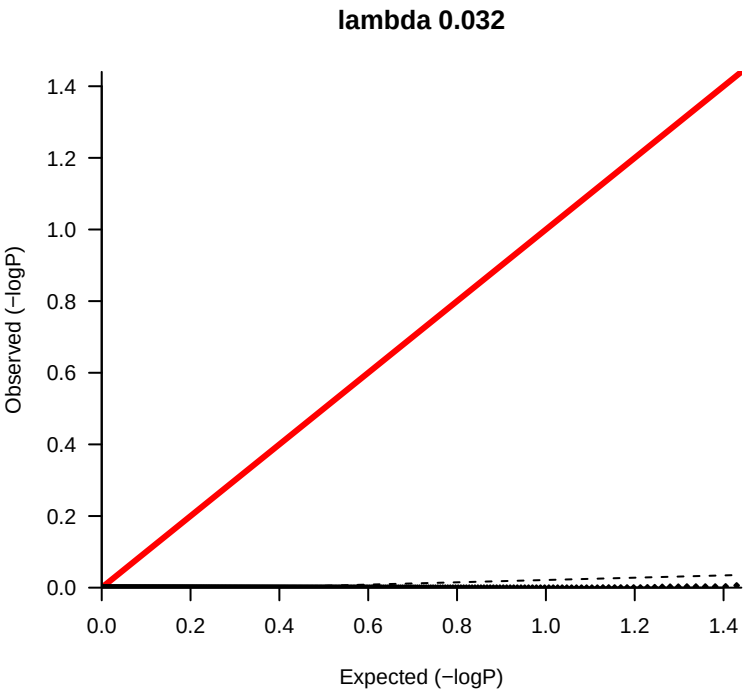

bio17
Frequency
0
5
10
15
20
150
200
250


lambda 0.044
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)


bio18
Frequency
0
2
4
6
8
10
12
240
260
280
300
320


lambda 0.848
Observed (−logP)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Expected (−logP)


bio19
Frequency
0
5
10
15
20
25
150
200
250
300


lambda 0.032
Observed (−logP)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
Expected (−logP)