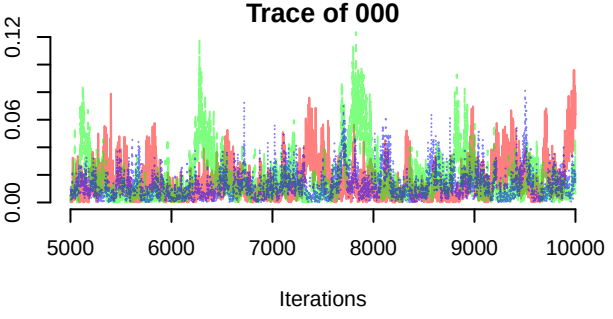
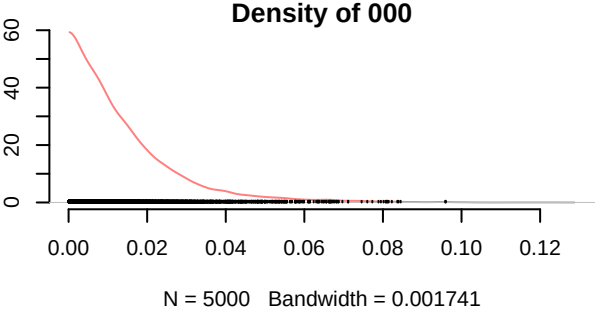
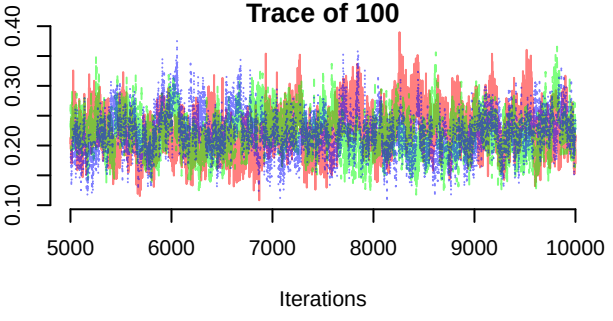
	Value
No. marker loci	3
No. children	100
No. blood samples	100
No. partial observations	0
No. mcmc iterations overall	10000
Thinning interval	1
Burn in overall	5000

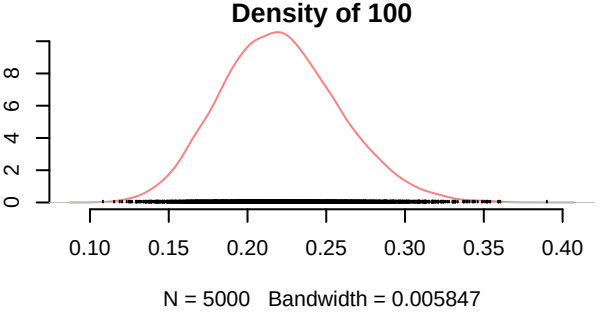
	Effective posterior sample size
000	246
100	336
010	357
110	175
001	345
101	286
011	169
111	129

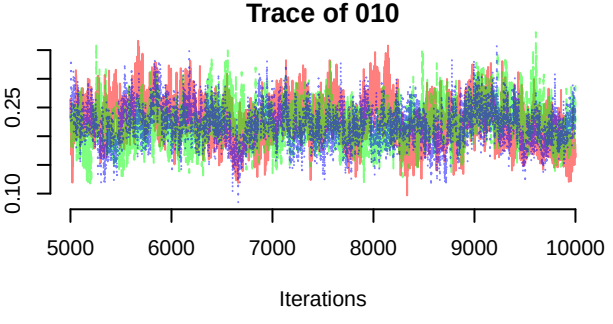
	No of observations
0 0 1	3
0 0.5 0.5	5
0 1 0	3
0 1 0.5	2
0.5 0 0.5	5
0.5 0 1	3
0.5 0.5 0	8
0.5 0.5 0.5	44
0.5 0.5 1	3
0.5 1 0.5	2
1 0 0	5
1 0 0.5	3
1 0 1	7
1 0.5 0	3
1 0.5 0.5	3
1 1 0.5	1

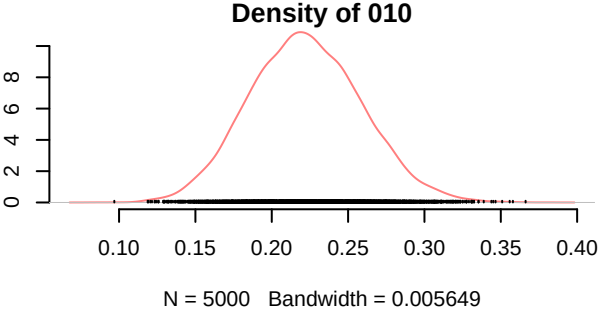

Trace of 000
0.00
0.06
0.12
5000
6000
7000
8000
9000
10000
Iterations

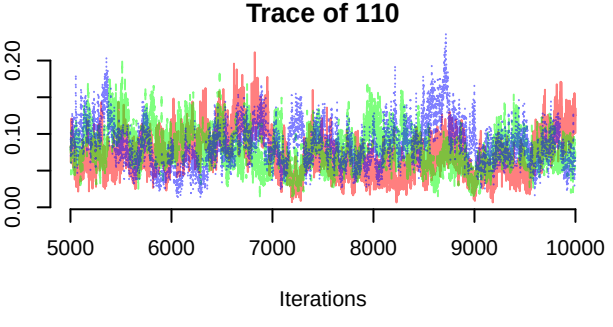

Density of 000
0
20
40
60
0.00
0.02
0.04
0.06
0.08
0.10
0.12
N = 5000 Bandwidth = 0.001741

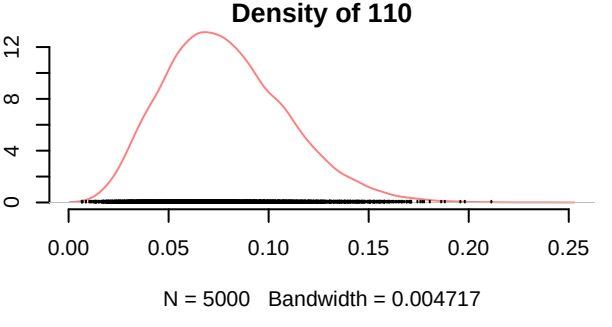

Trace of 100
0.10
0.20
0.30
0.40
5000
6000
7000
8000
9000
10000
Iterations

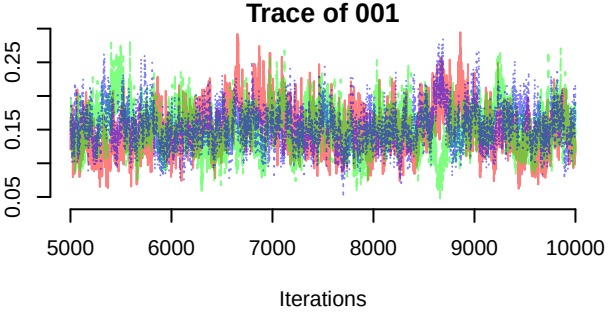

Density of 100
0
2
4
6
8
0.10
0.15
0.20
0.25
0.30
0.35
0.40
N = 5000 Bandwidth = 0.005847

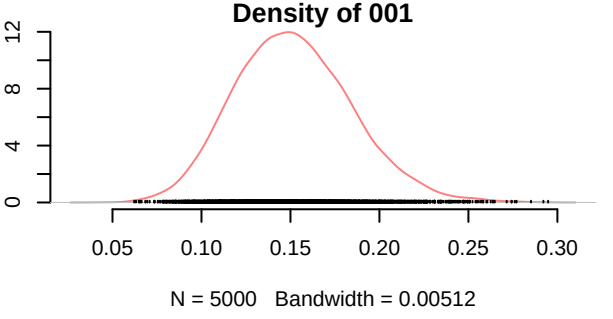

Trace of 010
0.10
0.25
5000
6000
7000
8000
9000
10000
Iterations

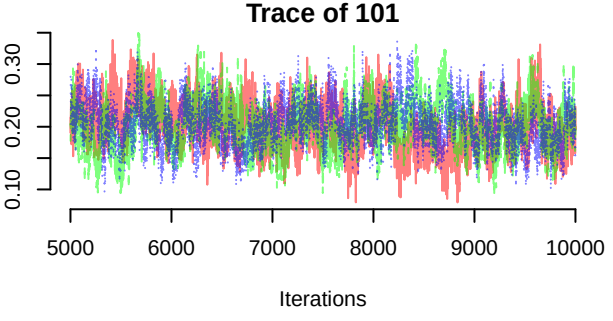

Density of 010
0
2
4
6
8
0.10
0.15
0.20
0.25
0.30
0.35
0.40
N = 5000 Bandwidth = 0.005649

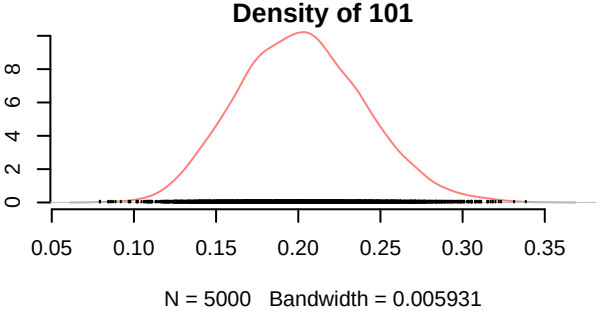

Trace of 110
0.00
0.10
0.20
5000
6000
7000
8000
9000
10000
Iterations

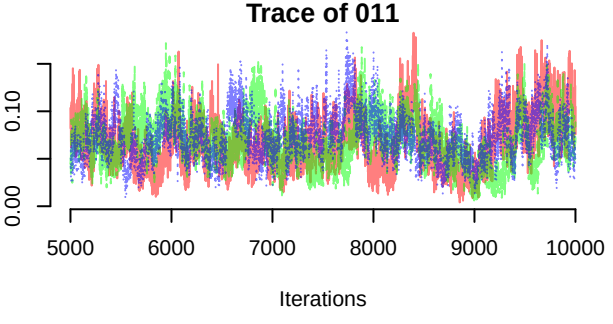

Density of 110
0
4
8
12
0.00
0.05
0.10
0.15
0.20
0.25
N = 5000 Bandwidth = 0.004717

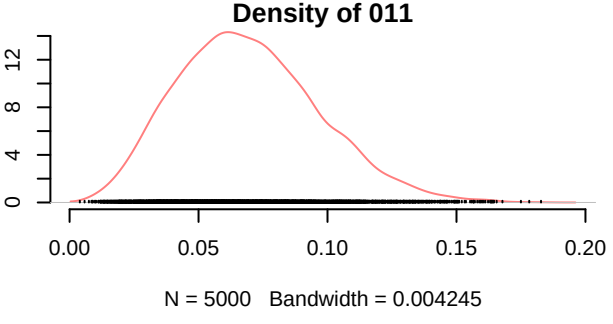

Trace of 001
0.05
0.15
0.25
5000
6000
7000
8000
9000
10000
Iterations

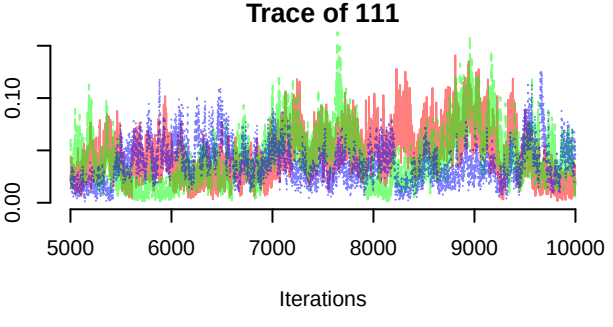

Density of 001
0
4
8
12
0.05
0.10
0.15
0.20
0.25
0.30
N = 5000 Bandwidth = 0.00512

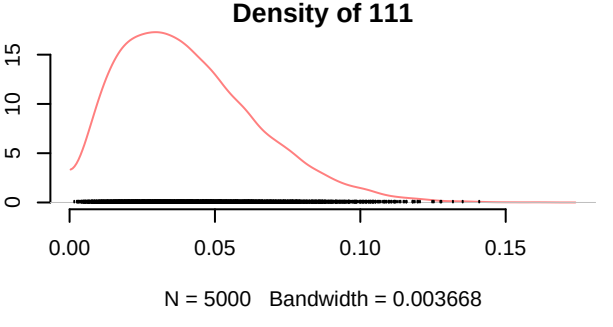

Trace of 101
0.10
0.20
0.30
5000
6000
7000
8000
9000
10000
Iterations

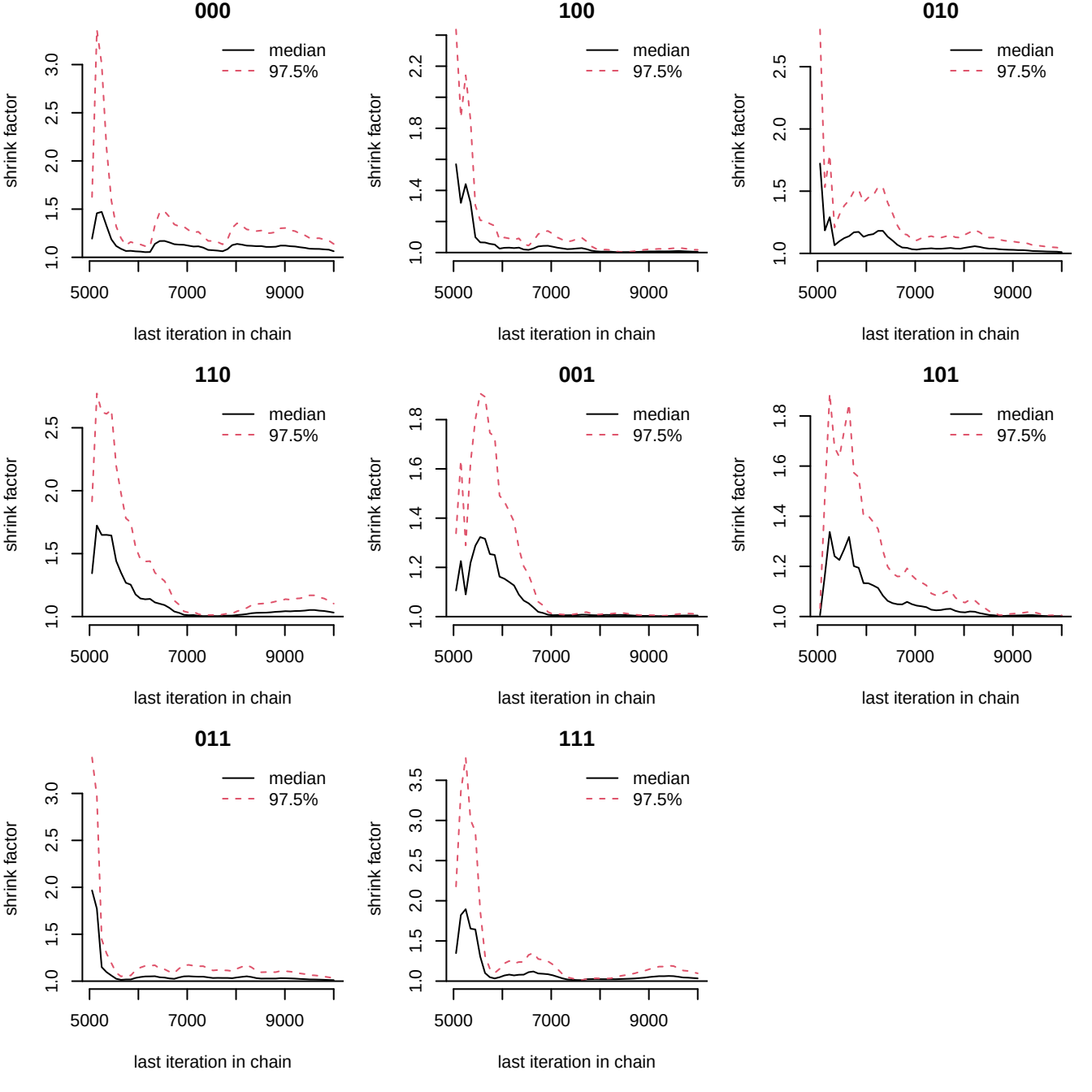

Density of 101
0
2
4
6
8
0.05
0.10
0.15
0.20
0.25
0.30
0.35
N = 5000 Bandwidth = 0.005931

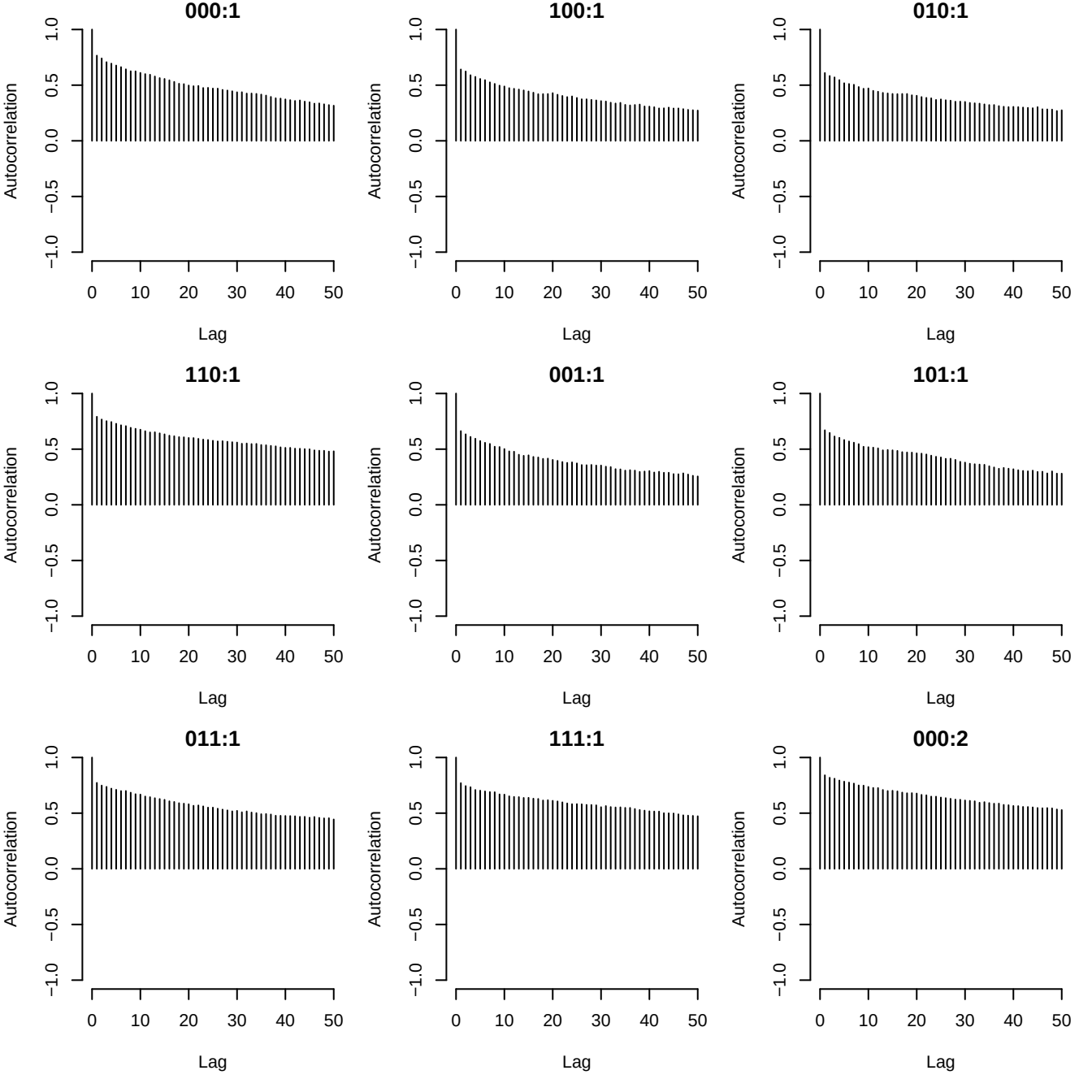

Trace of 011
0.00
0.10
5000
6000
7000
8000
9000
10000
Iterations

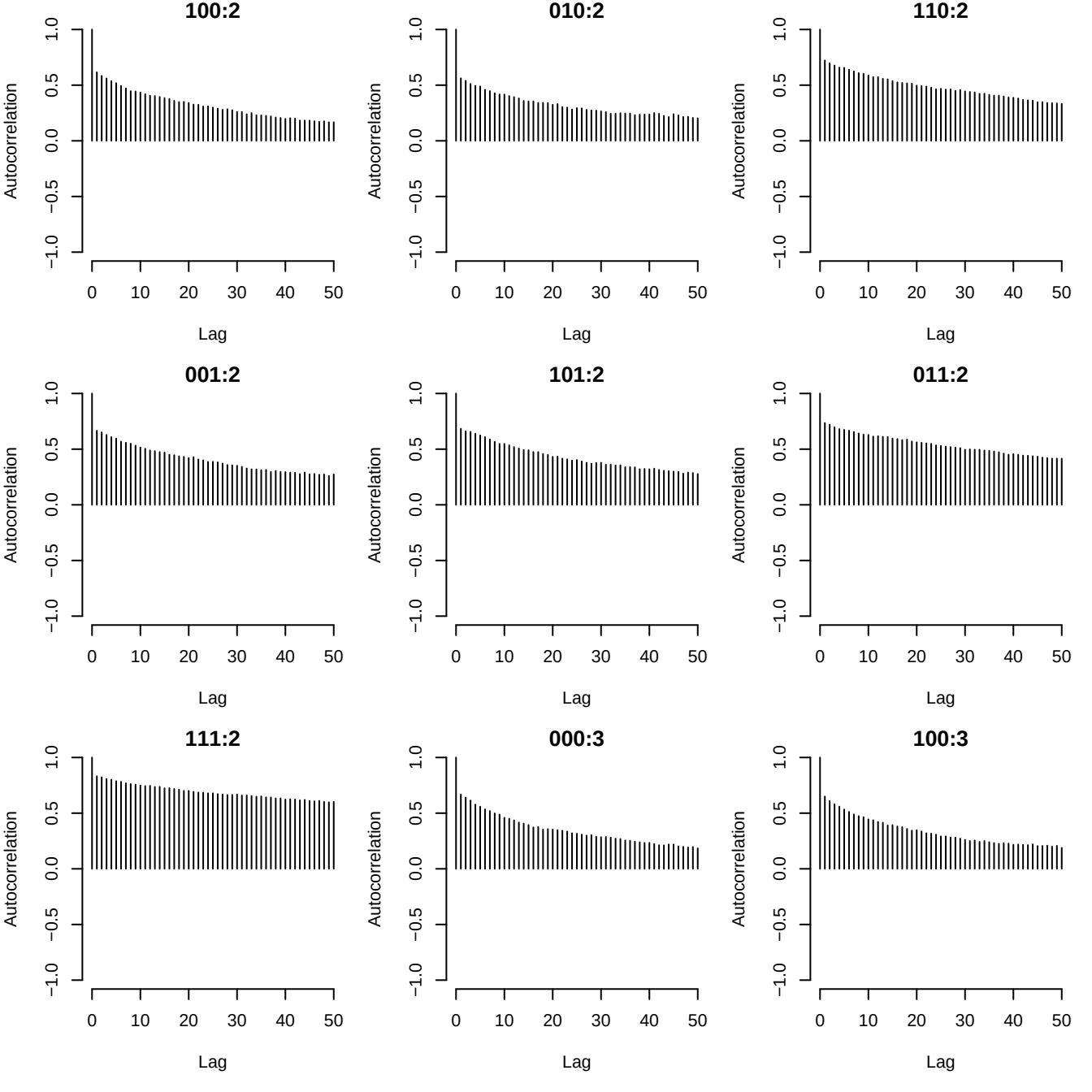

Density of 011
0
4
8
12
0.00
0.05
0.10
0.15
0.20
N = 5000 Bandwidth = 0.004245

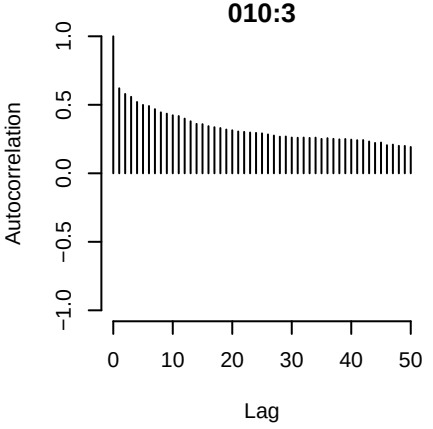

Trace of 111
0.00
0.10
5000
6000
7000
8000
9000
10000
Iterations

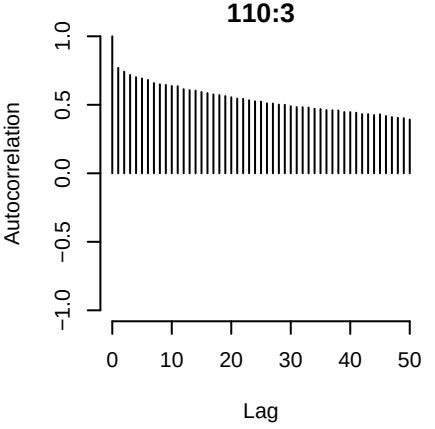

Density of 111
0
5
10
15
0.00
0.05
0.10
0.15
N = 5000 Bandwidth = 0.003668

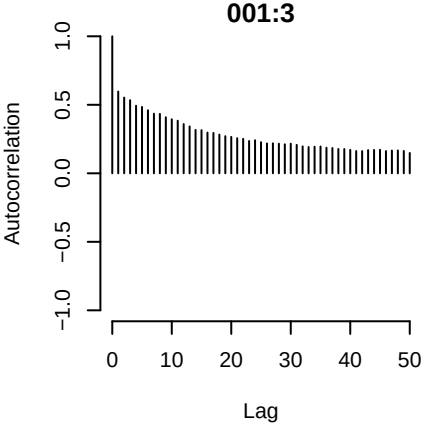

000
100
010
110
001
101
011
111
median
97.5%
shrink factor
last iteration in chain
5000
7000
9000

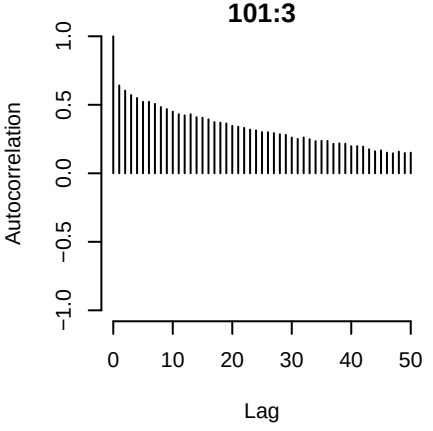

000:1
100:1
010:1
110:1
001:1
101:1
011:1
111:1
000:2
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

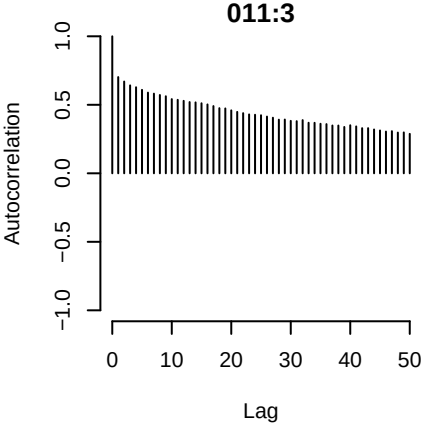

100:2
010:2
110:2
001:2
101:2
011:2
111:2
000:3
100:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

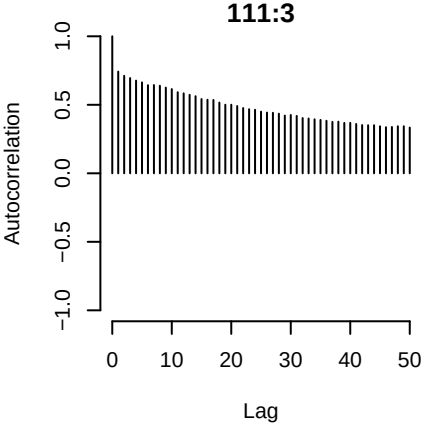

010:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

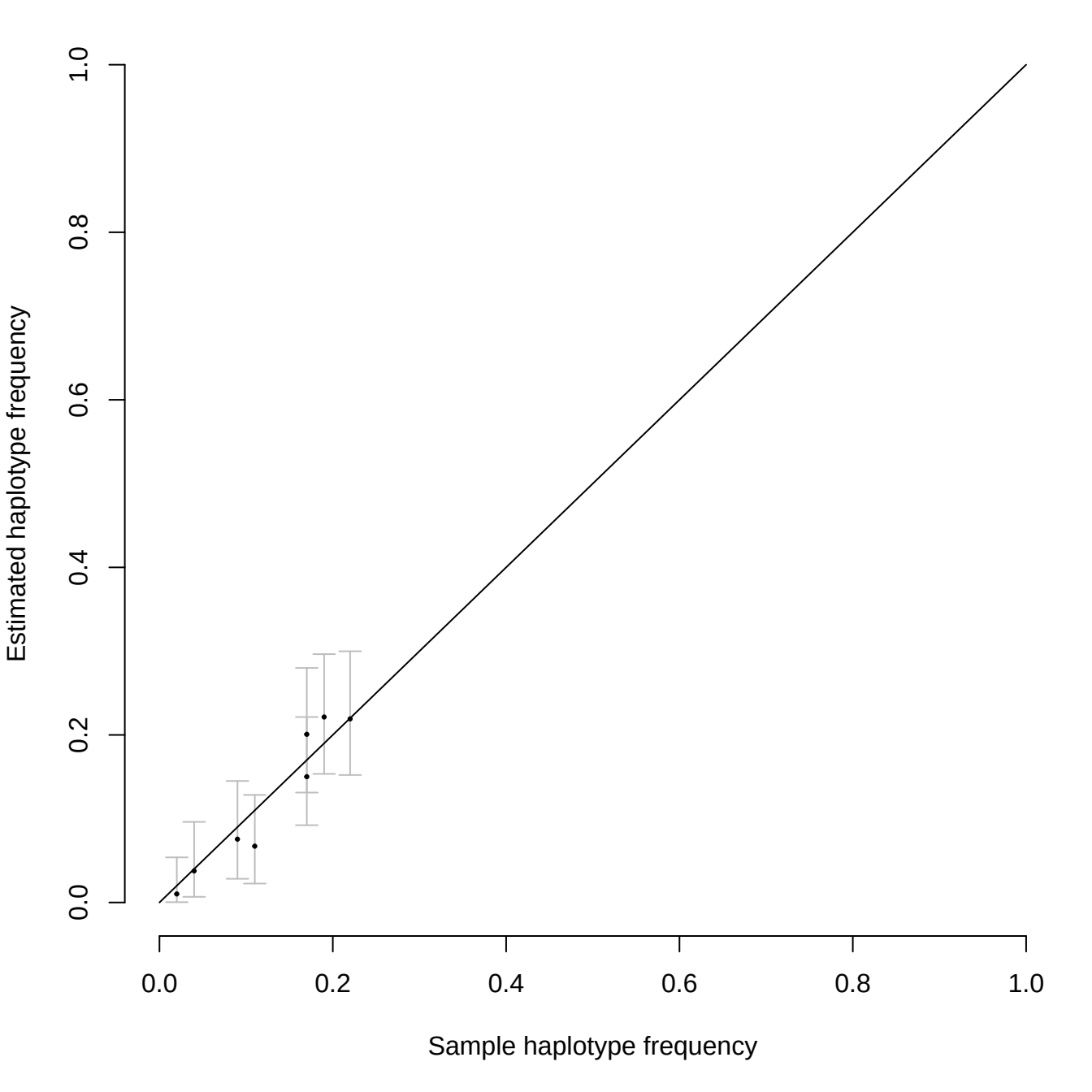

110:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

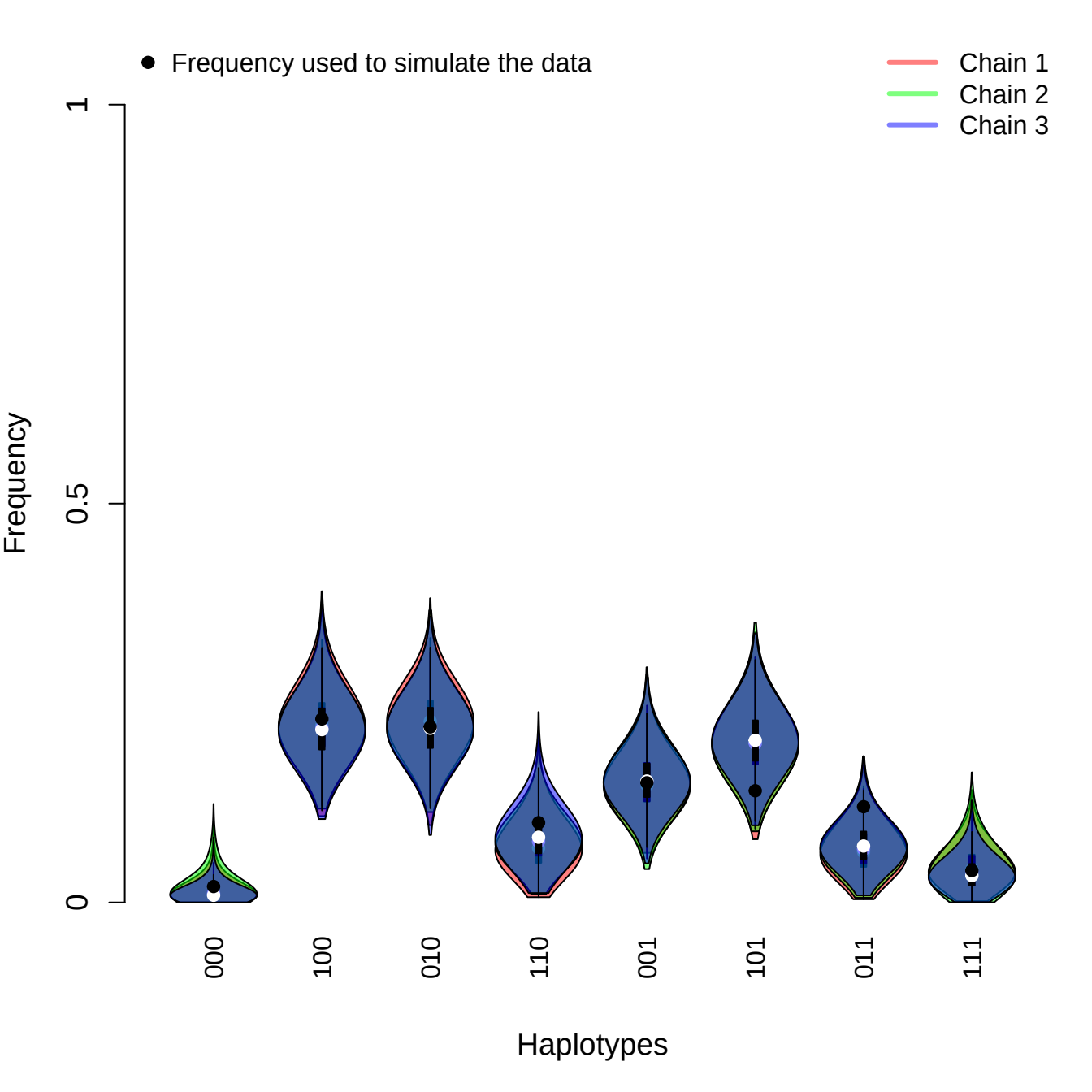

001:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

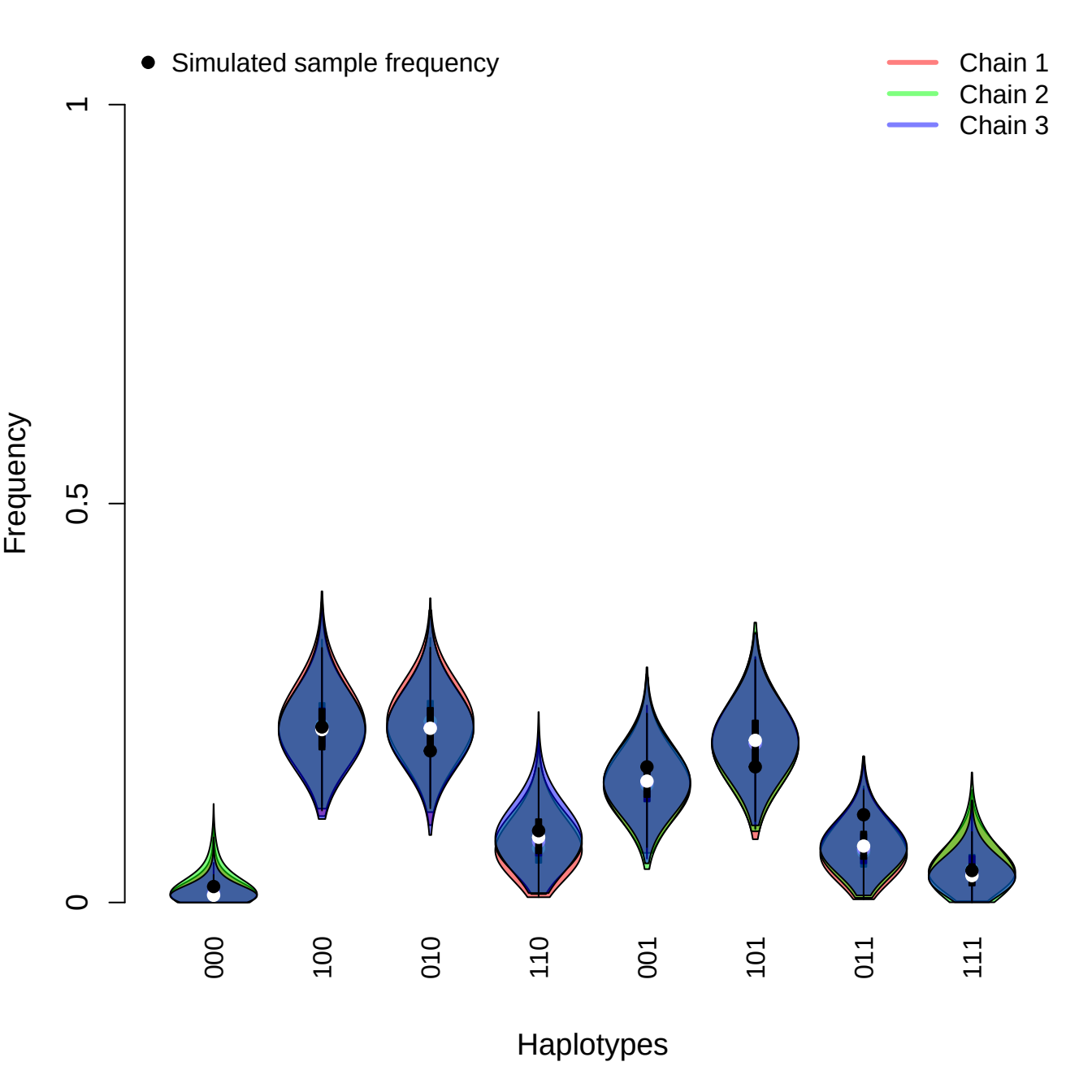

101:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

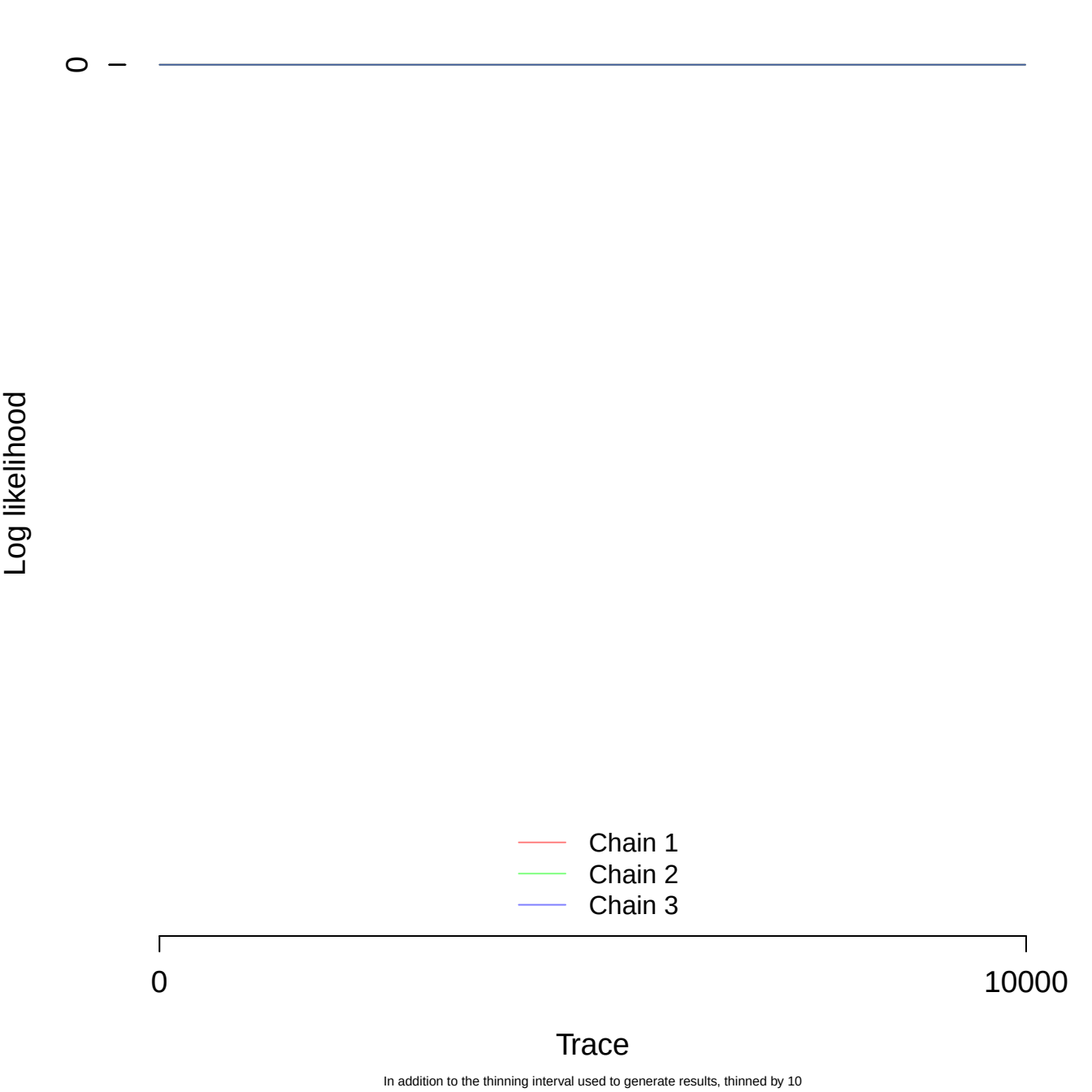

011:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag


111:3
Autocorrelation
1.0
0.5
0.0
−0.5
−1.0
0
10
20
30
40
50
Lag

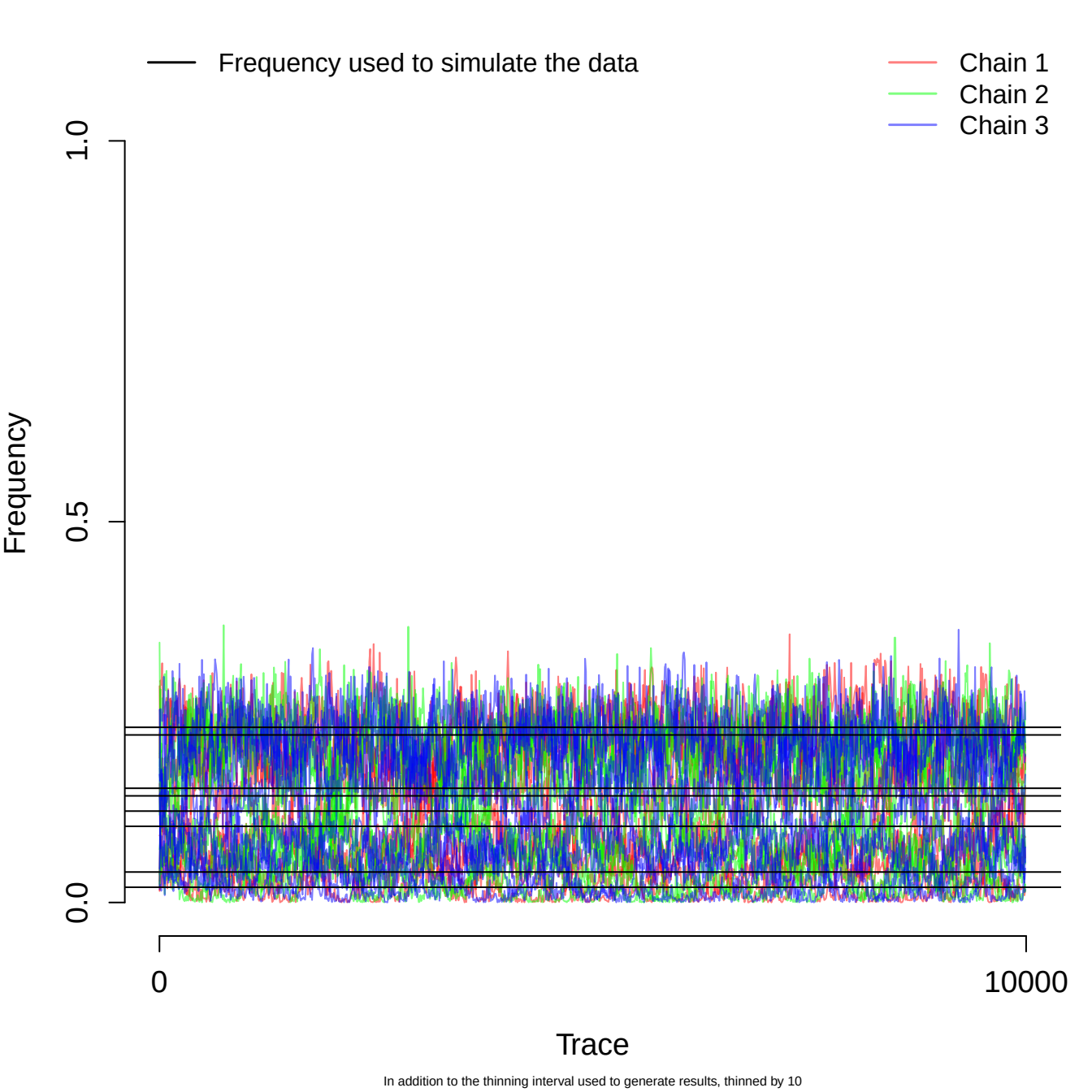

Estimated haplotype frequency
0.0
0.2
0.4
0.6
0.8
1.0
Sample haplotype frequency
0.0
0.2
0.4
0.6
0.8
1.0

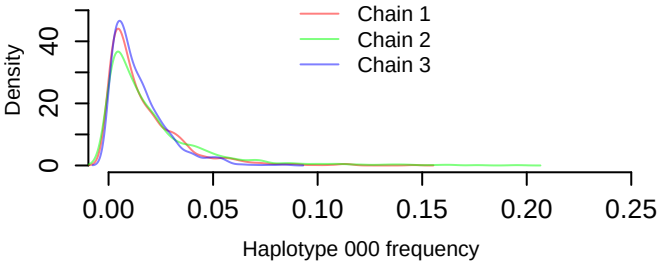

Frequency used to simulate the data
Chain 1
Chain 2
Chain 3
Frequency
0
0.5
1
000
100
010
110
001
101
011
111
Haplotypes


Simulated sample frequency
Chain 1
Chain 2
Chain 3
Frequency
0
0.5
1
000
100
010
110
001
101
011
111
Haplotypes

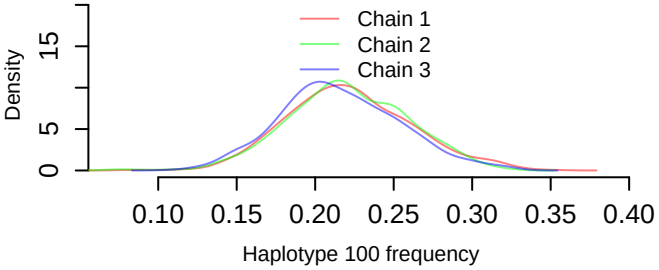


In addition to the thinning interval used to generate results, thinned by 10

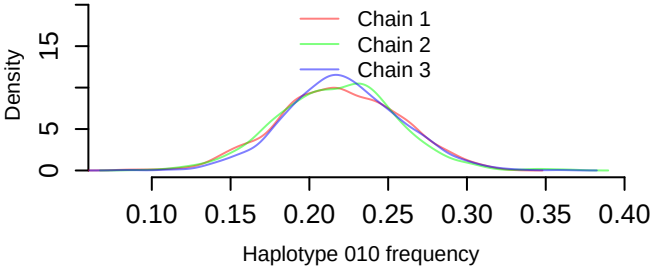

Frequency used to simulate the data
Chain 1
Chain 2
Chain 3
Frequency
1.0
0.5
0.0
0
10000
Trace
In addition to the thinning interval used to generate results, thinned by 10



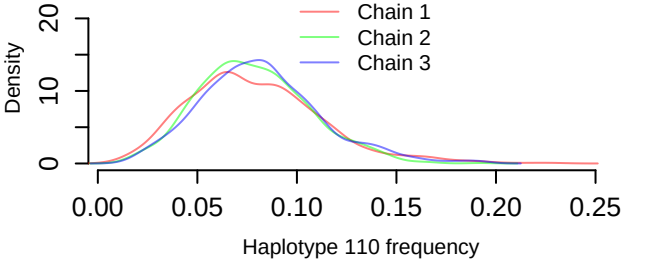
In addition to the thinning interval used to generate results, thinned by 10



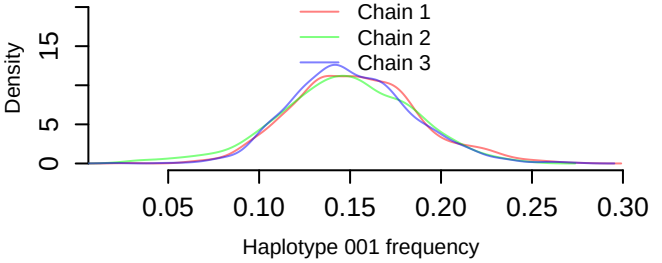
In addition to the thinning interval used to generate results, thinned by 10



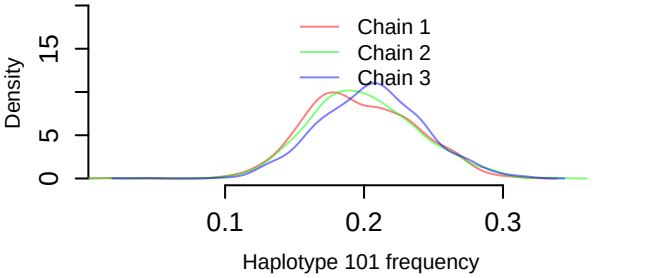
In addition to the thinning interval used to generate results, thinned by 10



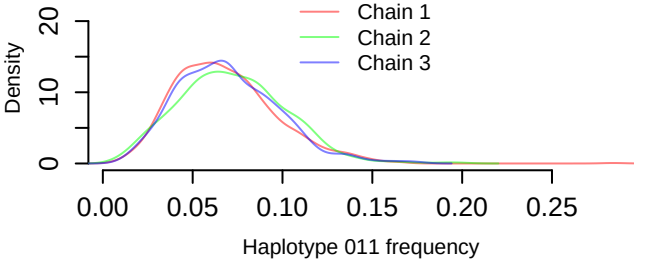
In addition to the thinning interval used to generate results, thinned by 10



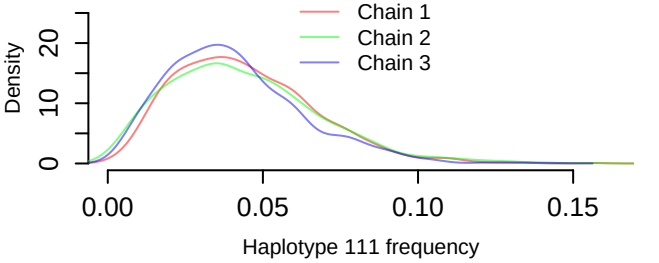
In addition to the thinning interval used to generate results, thinned by 10



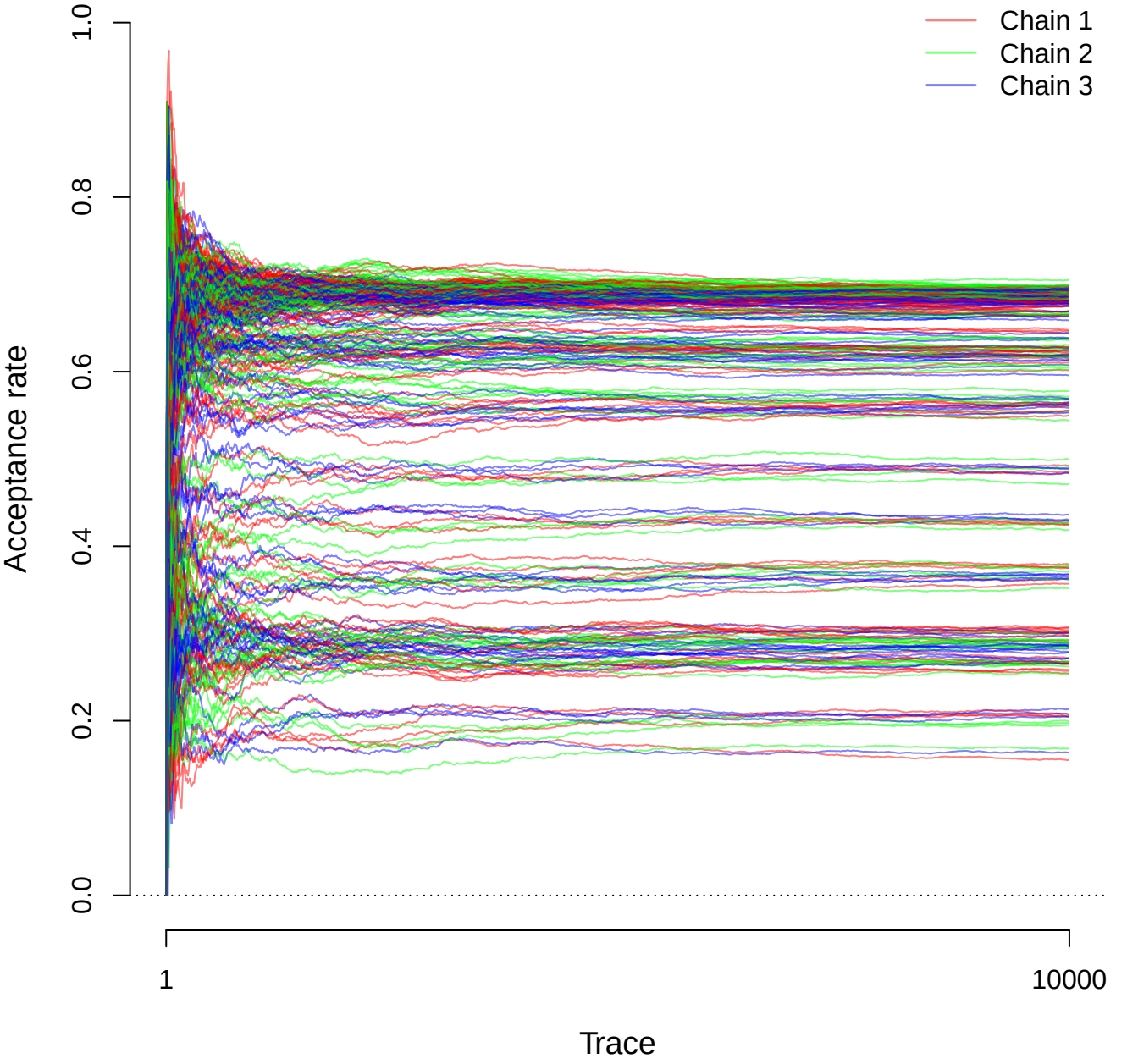
In addition to the thinning interval used to generate results, thinned by 10

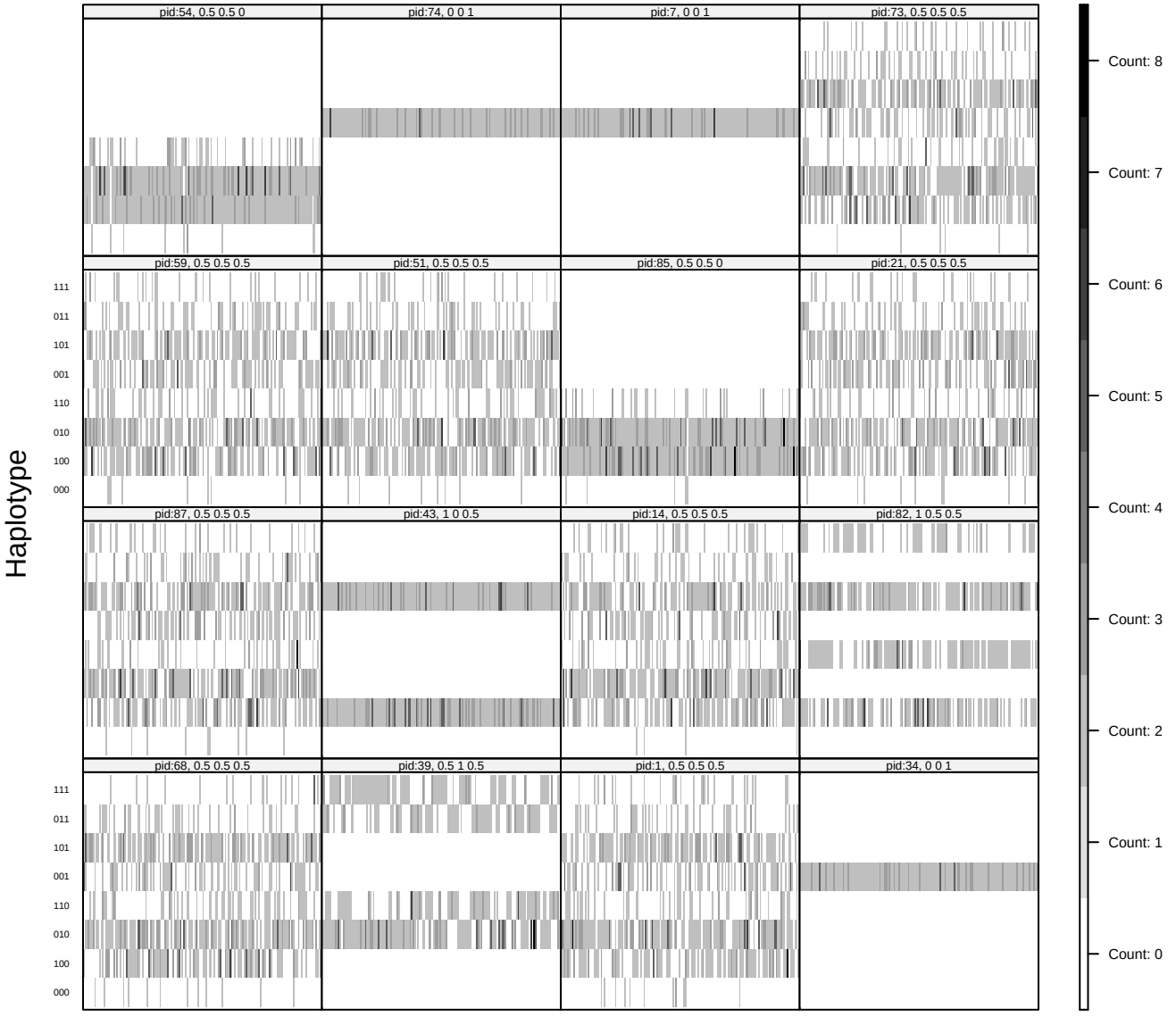


In addition to the thinning interval used to generate results, thinned by 10

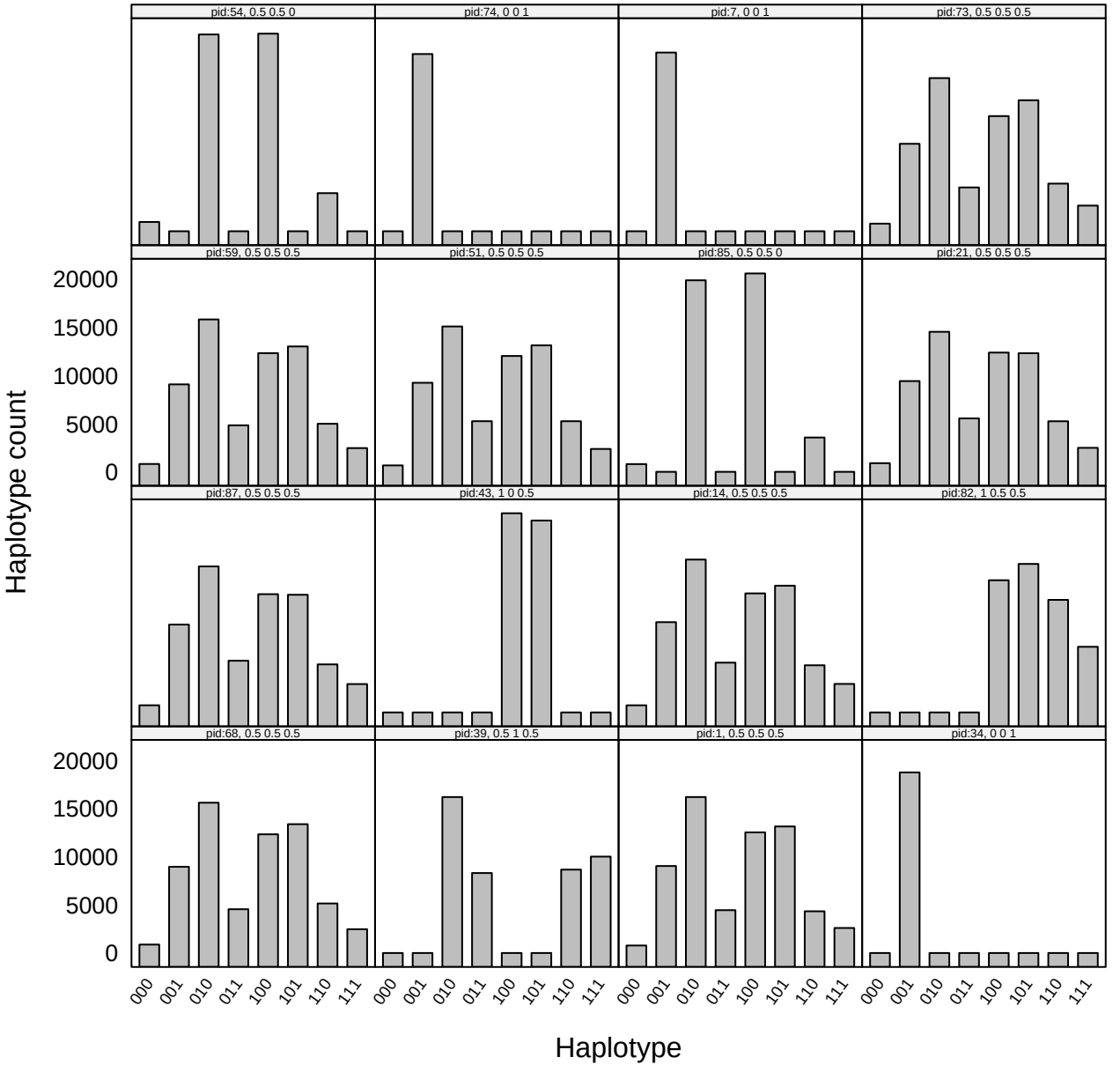


In addition to the thinning interval used to generate results, thinned by 10

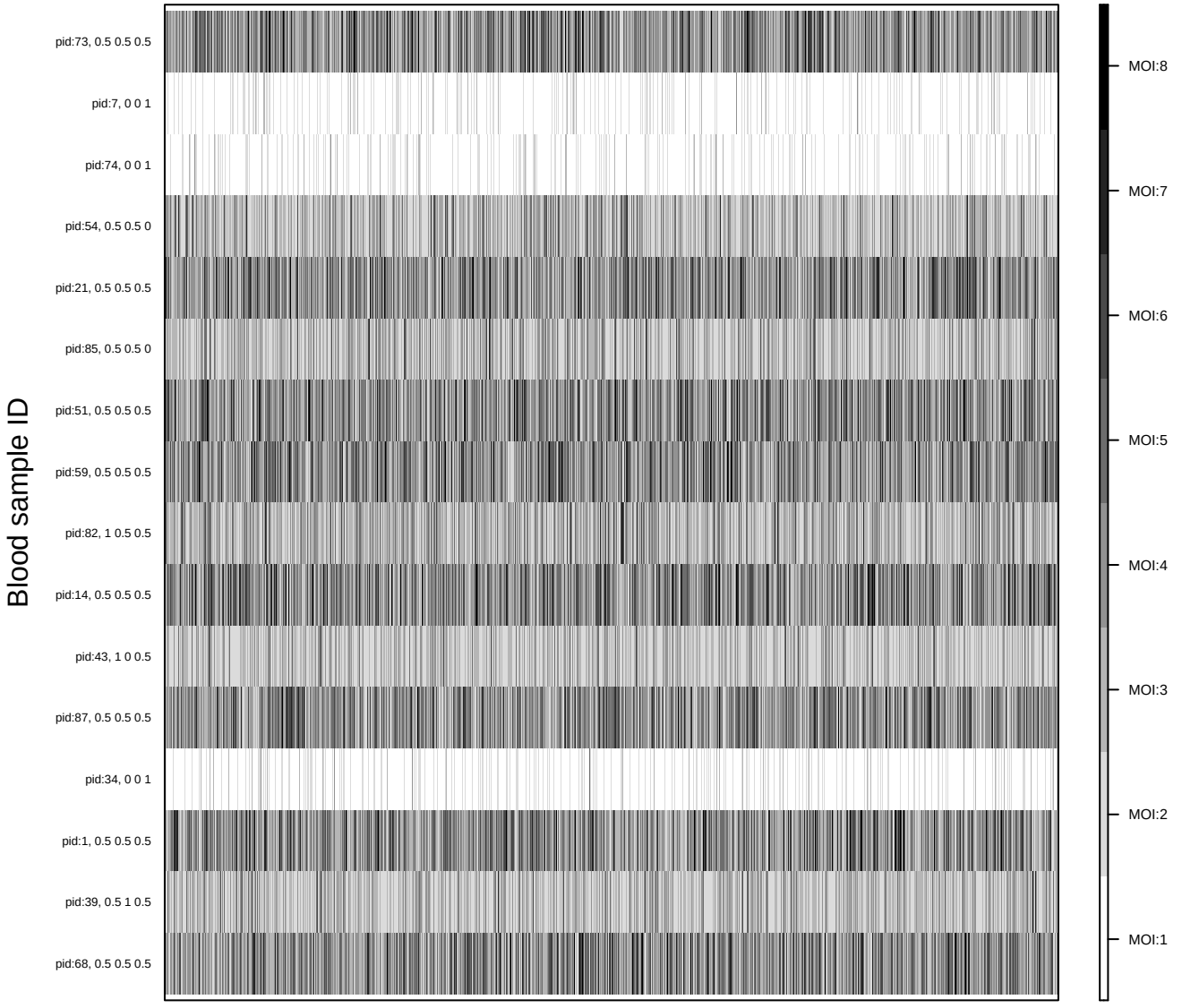

Chain 1
Chain 2
Chain 3
Acceptance rate
1.0
0.8
0.6
0.4
0.2
0.0
1
10000
Trace
In addition to the thinning interval used to generate results, thinned by 10



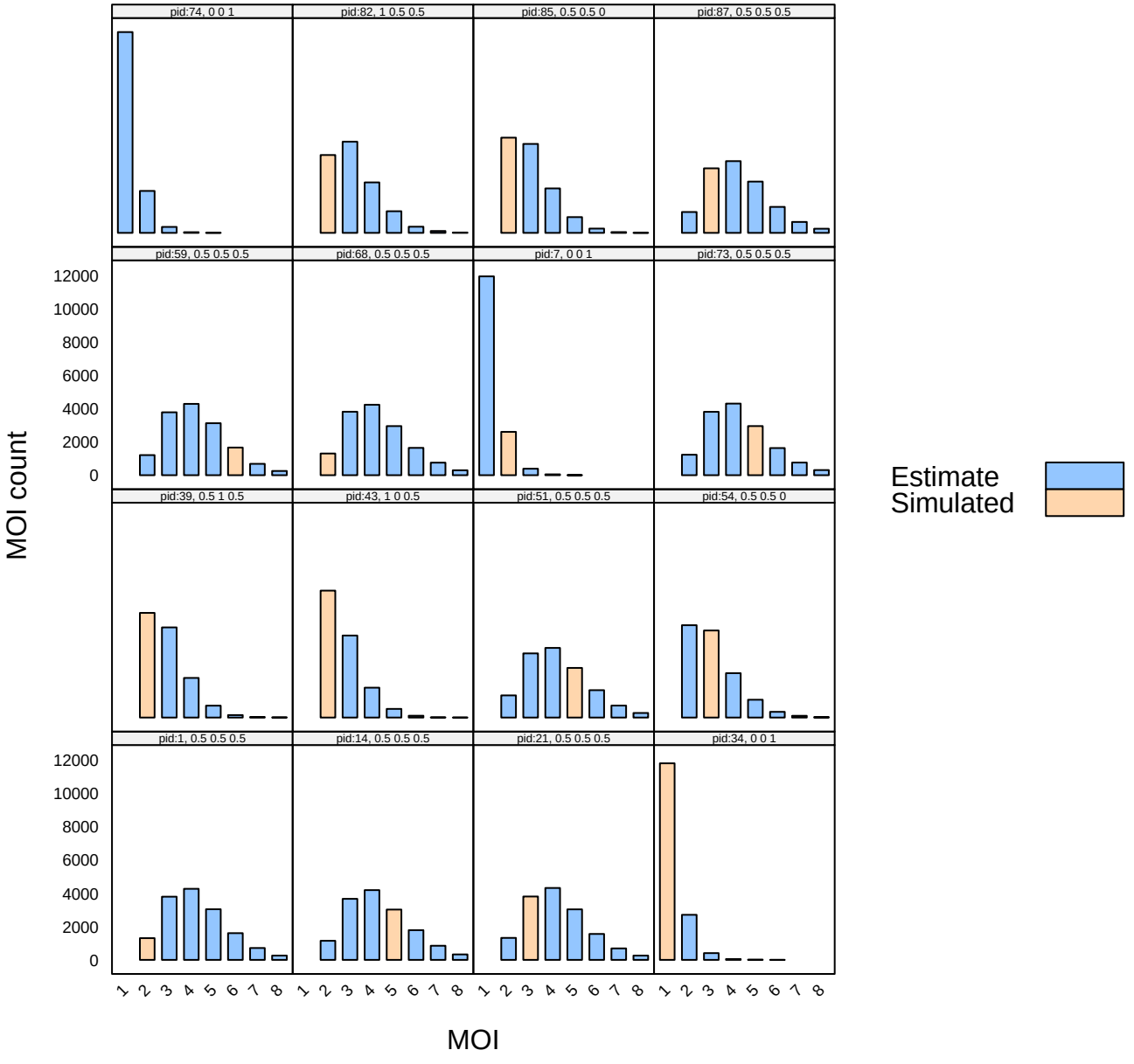
Posterior for 16 random blood samples, additionally thinned by 100, post burnin



Haplotype barchart, 16 randomly selected blood samples, post burnin



MOI posterior, 16 blood samples, post burnin, additionally thinned by 10



MOI barchart, 16 blood samples, post burnin, chains combined