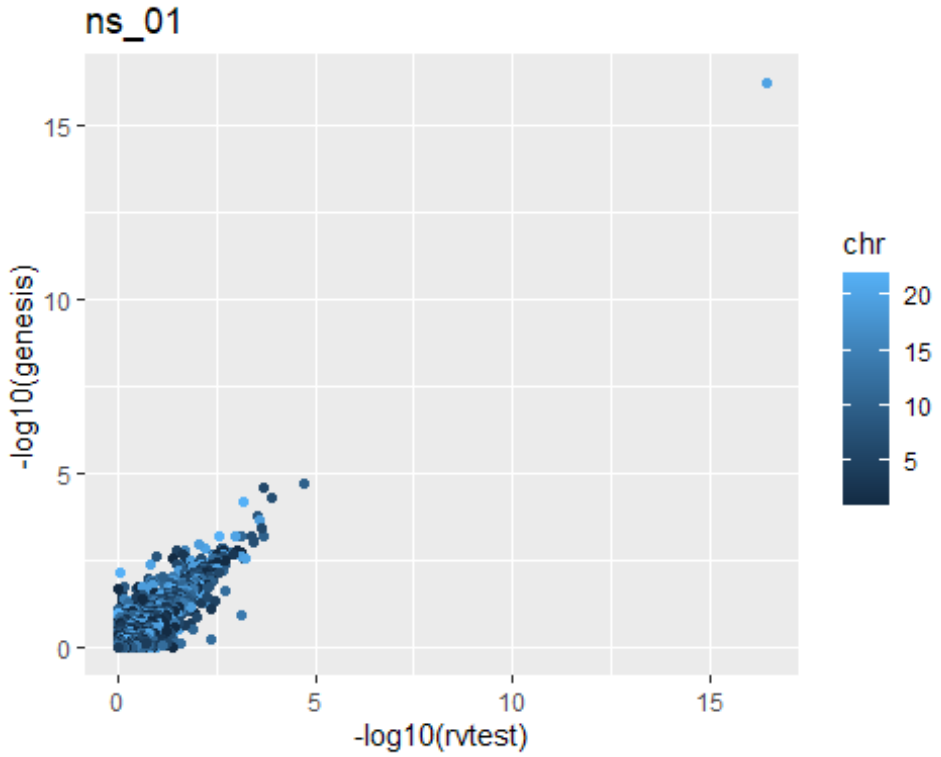
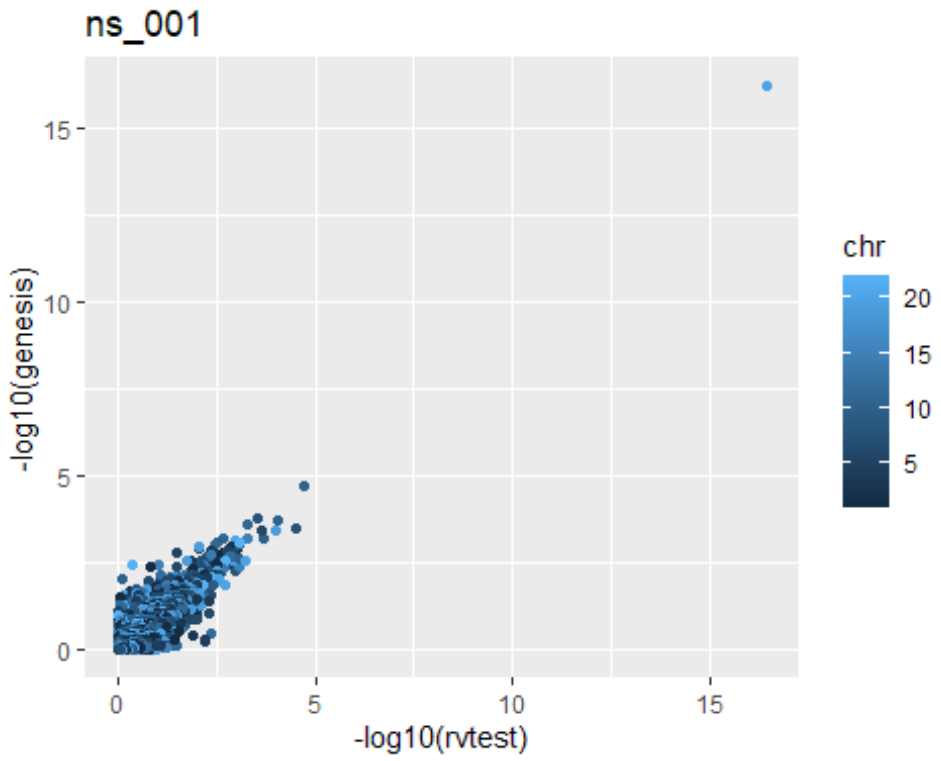
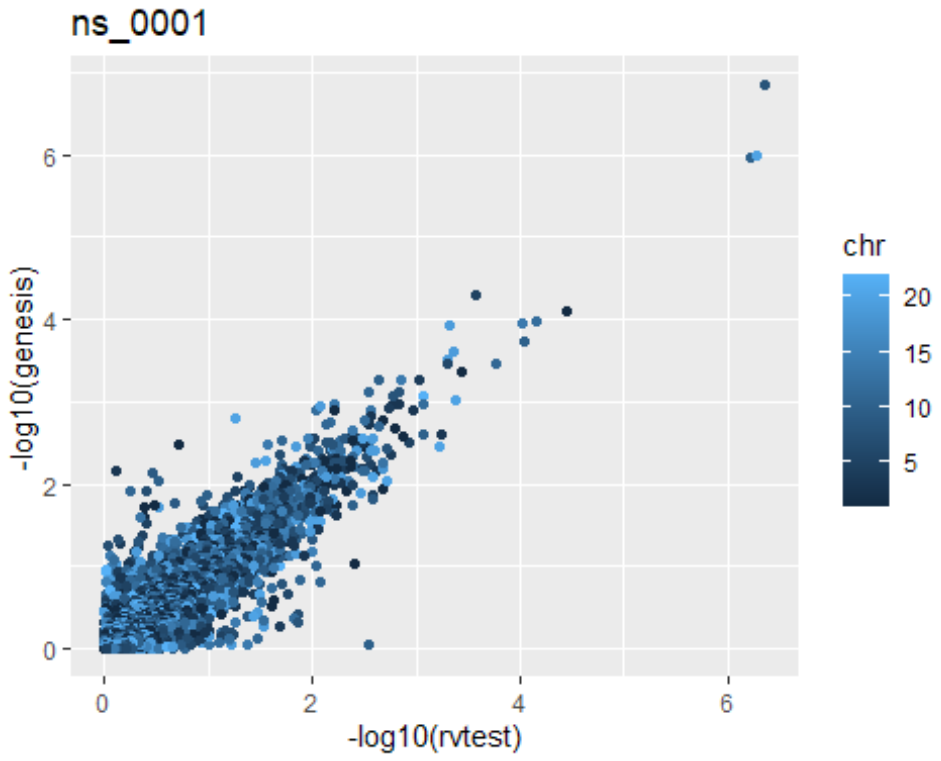
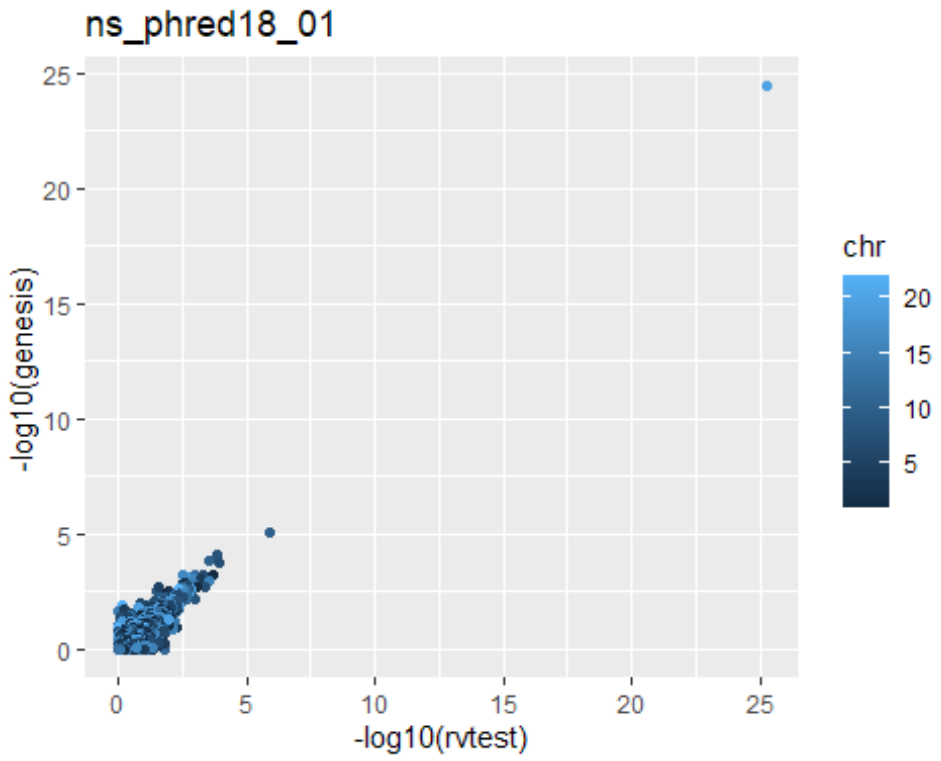
Burden

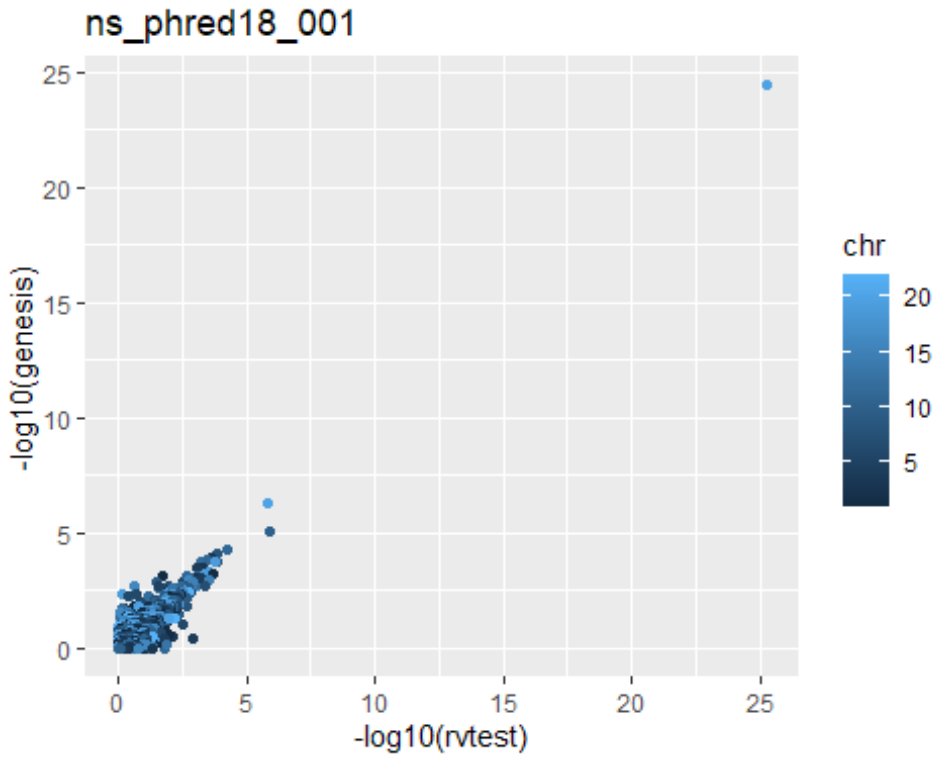
RVTEST and GENESIS Results Comparison

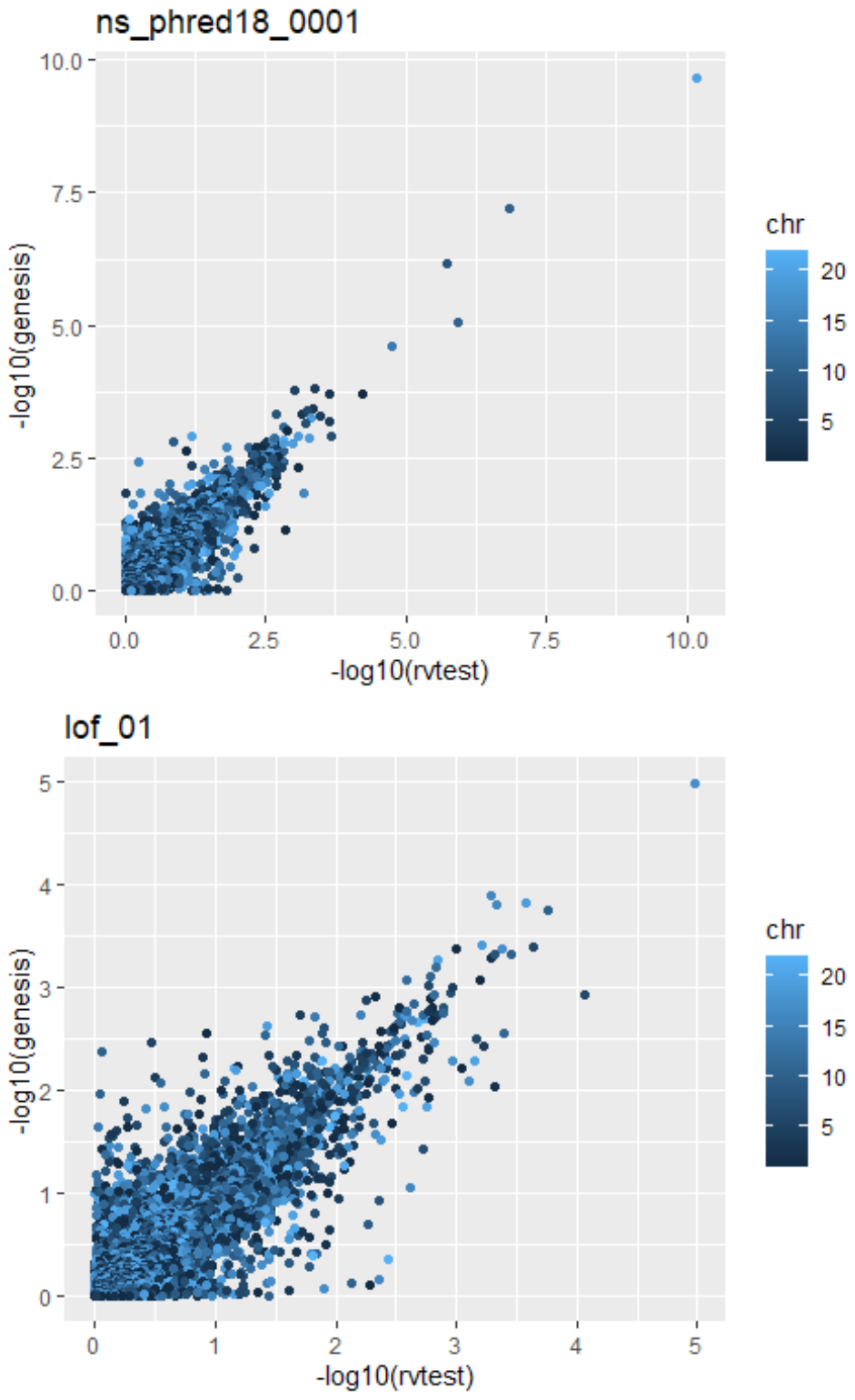


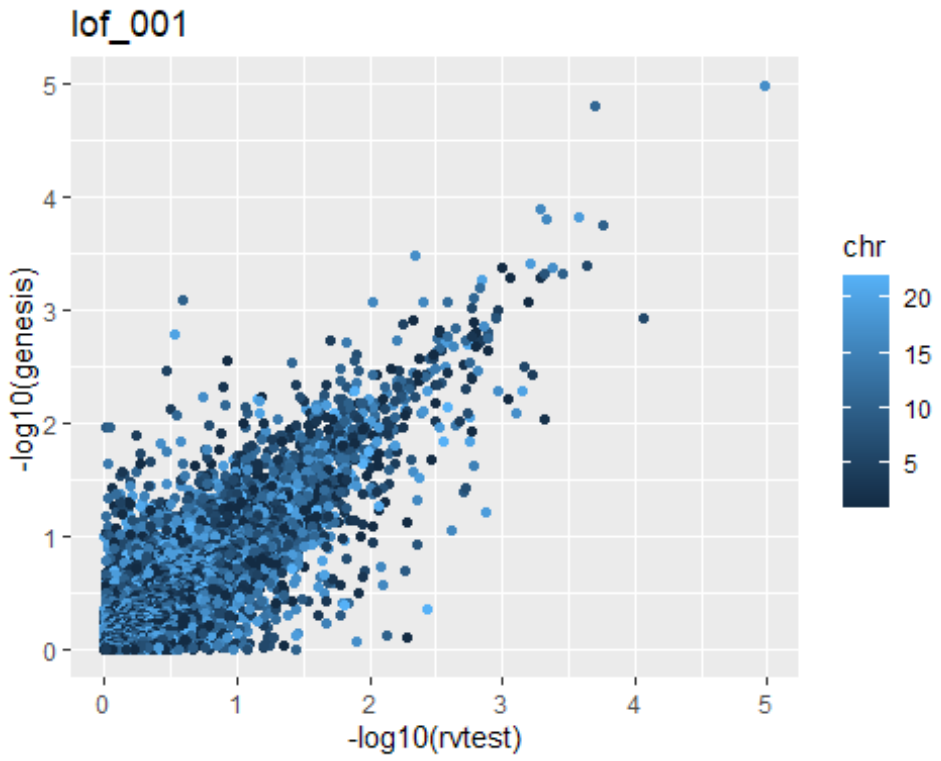

ns_001
-log10(genesis)
-log10(rvtest)
chr
20
15
10
5
0
5
10
15


ns_0001
-log10(genesis)
-log10(rvtest)
chr
20
15
10
5
0
2
4
6


ns_phred18_01
-log10(genesis)
-log10(rvtest)
chr
0
5
10
15
20
25


ns_phred18_001
-log10(genesis)
-log10(rvtest)
chr
0
5
10
15
20
25


ns_phred18_0001
-log10(genesis)
-log10(rvtest)
chr
20
15
10
5
0.0
2.5
5.0
7.5
10.0
lof_01
-log10(genesis)
-log10(rvtest)
chr
20
15
10
5
0
1
2
3
4
5

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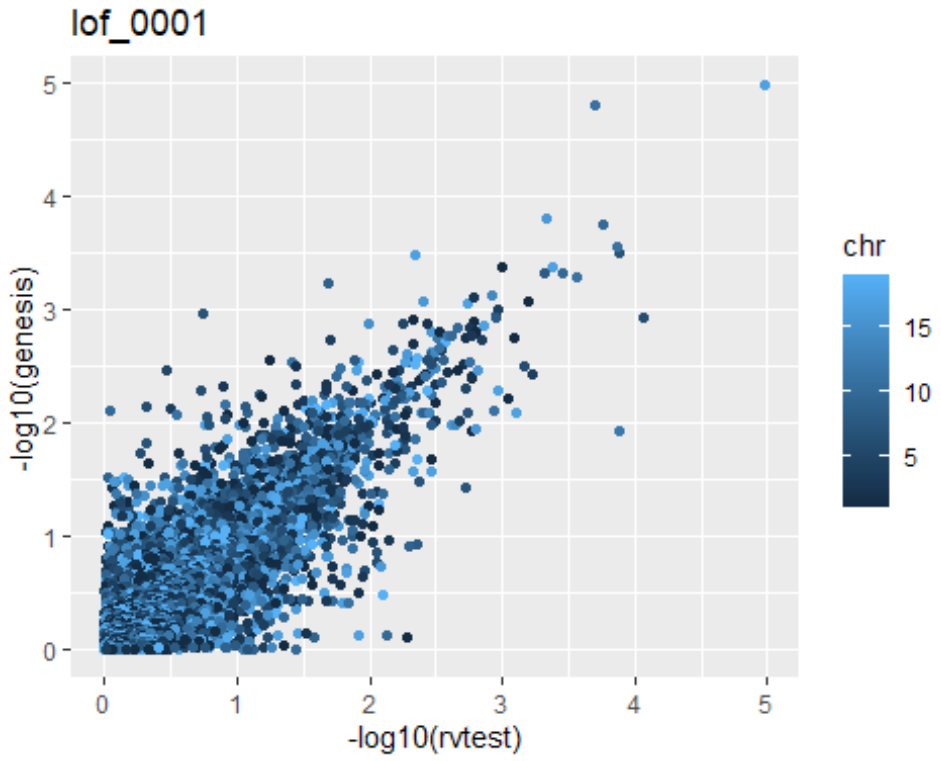
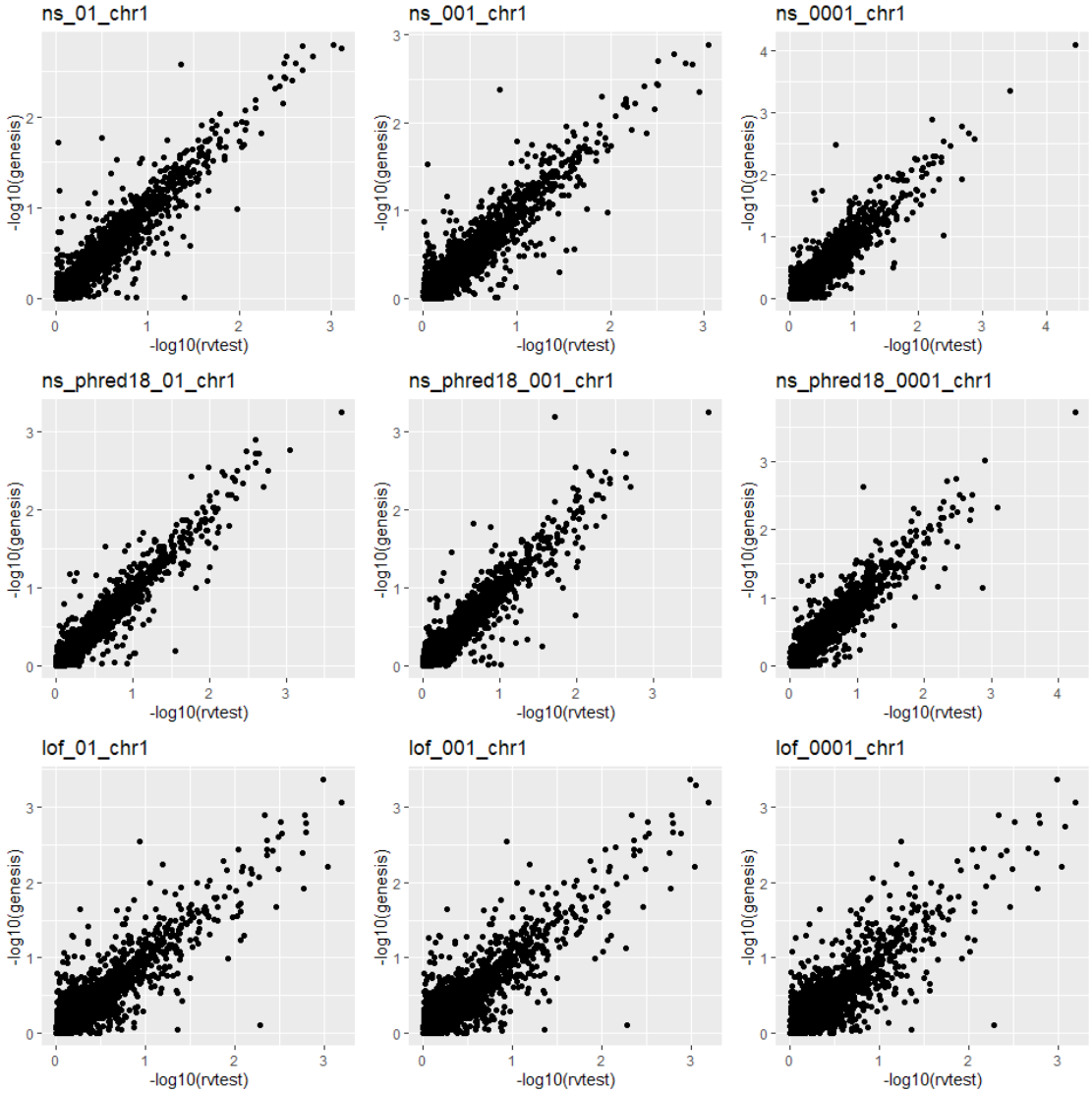
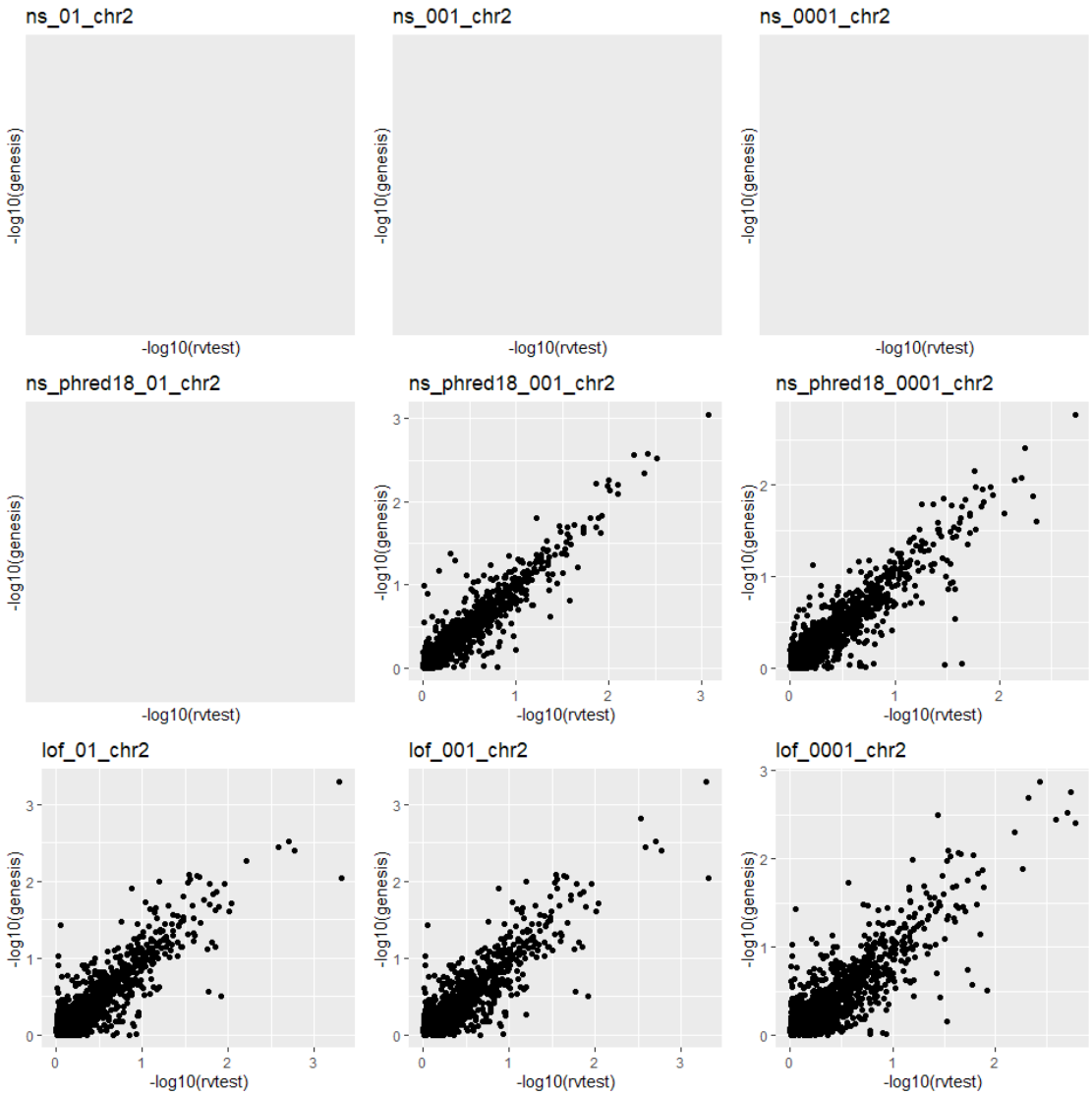
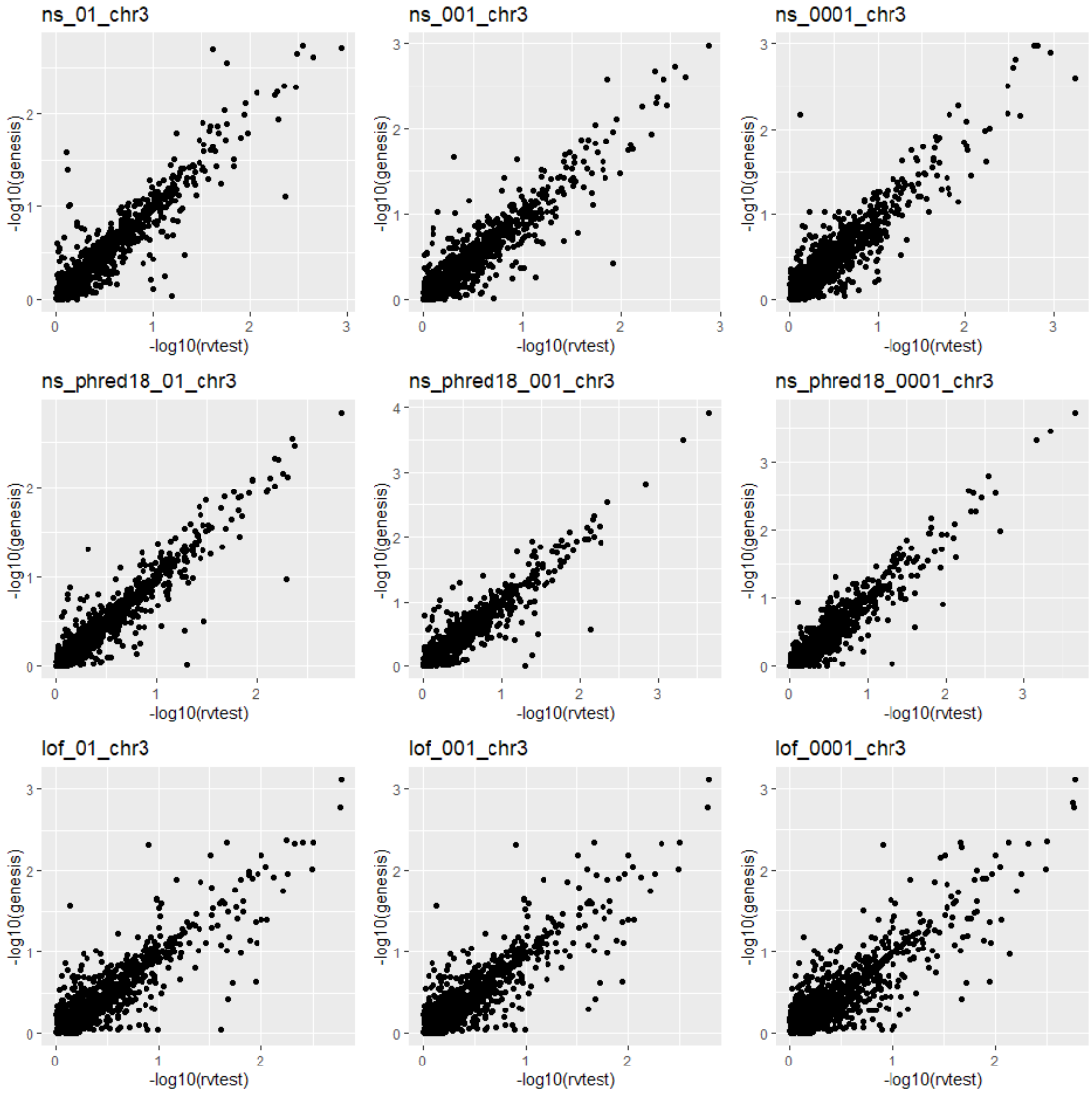
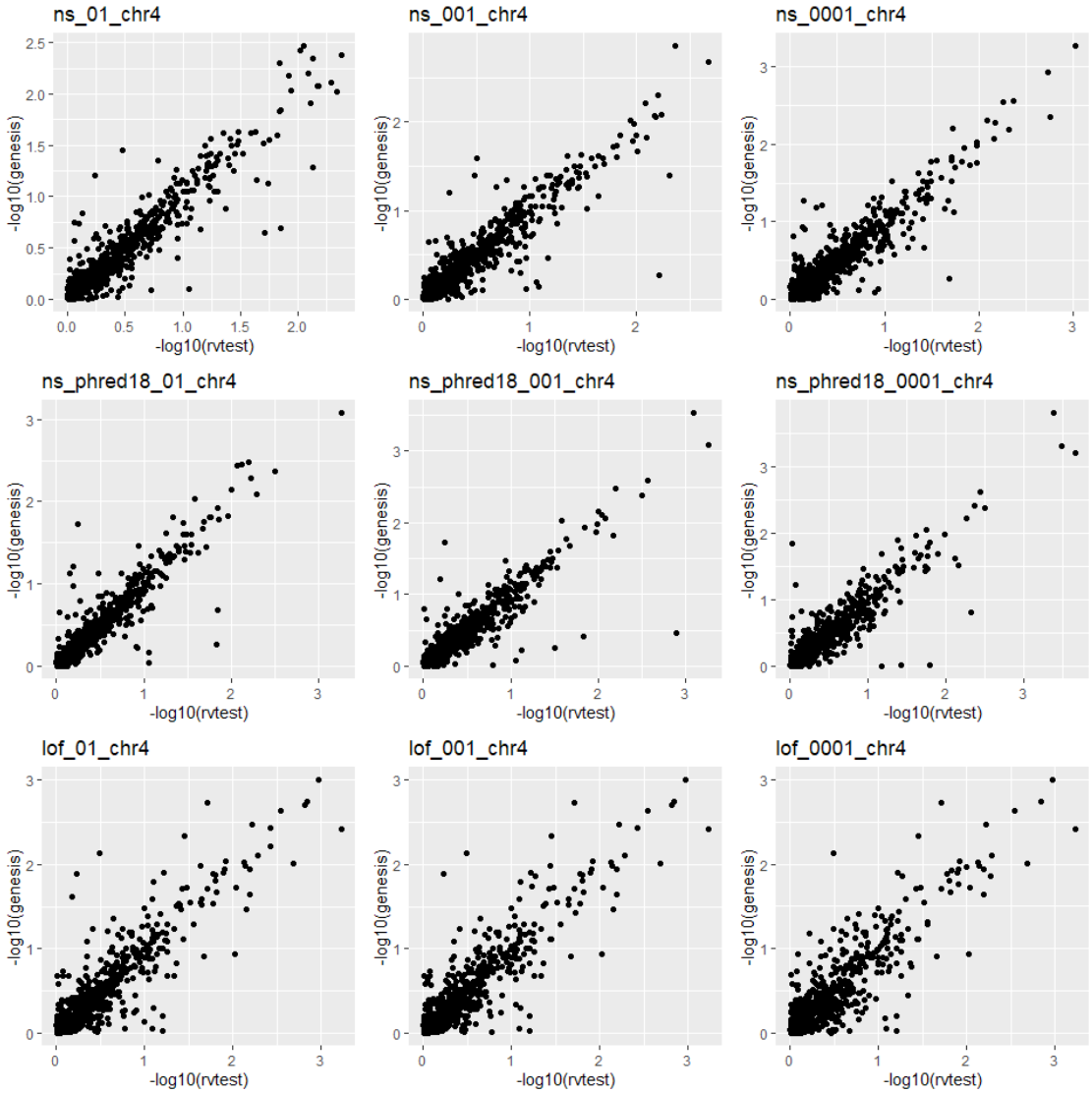


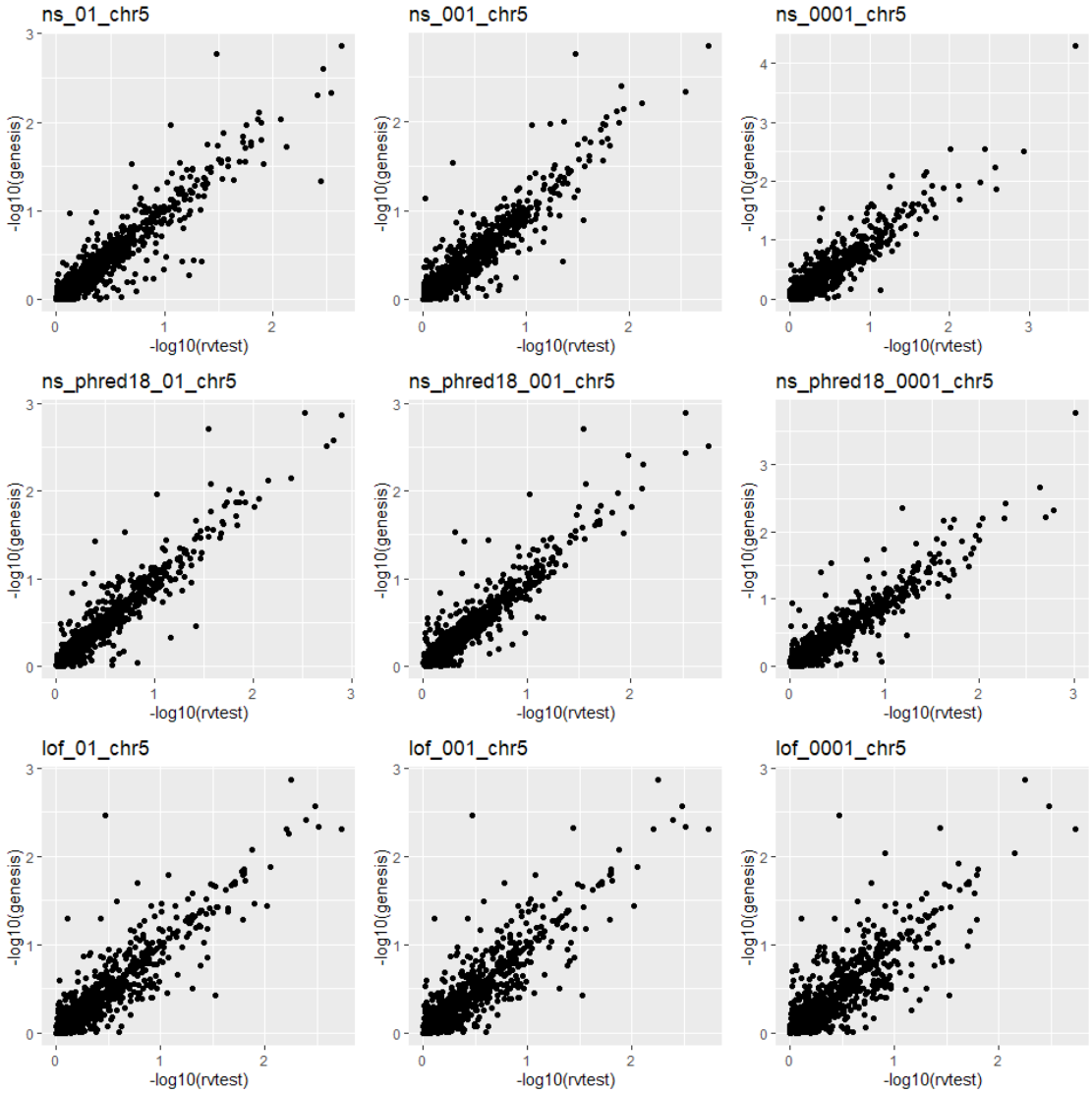
Comparison by individual chromosomes

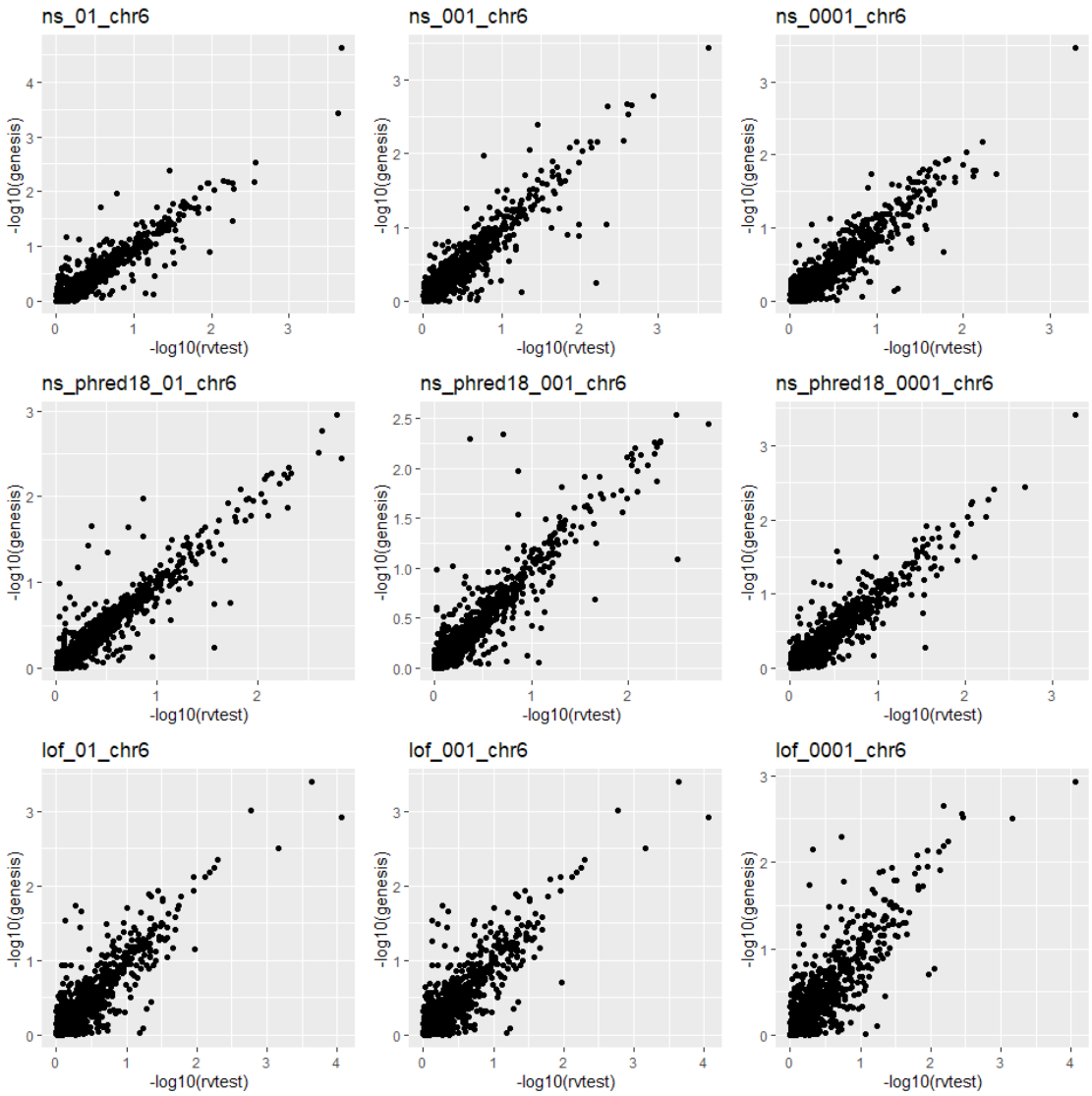


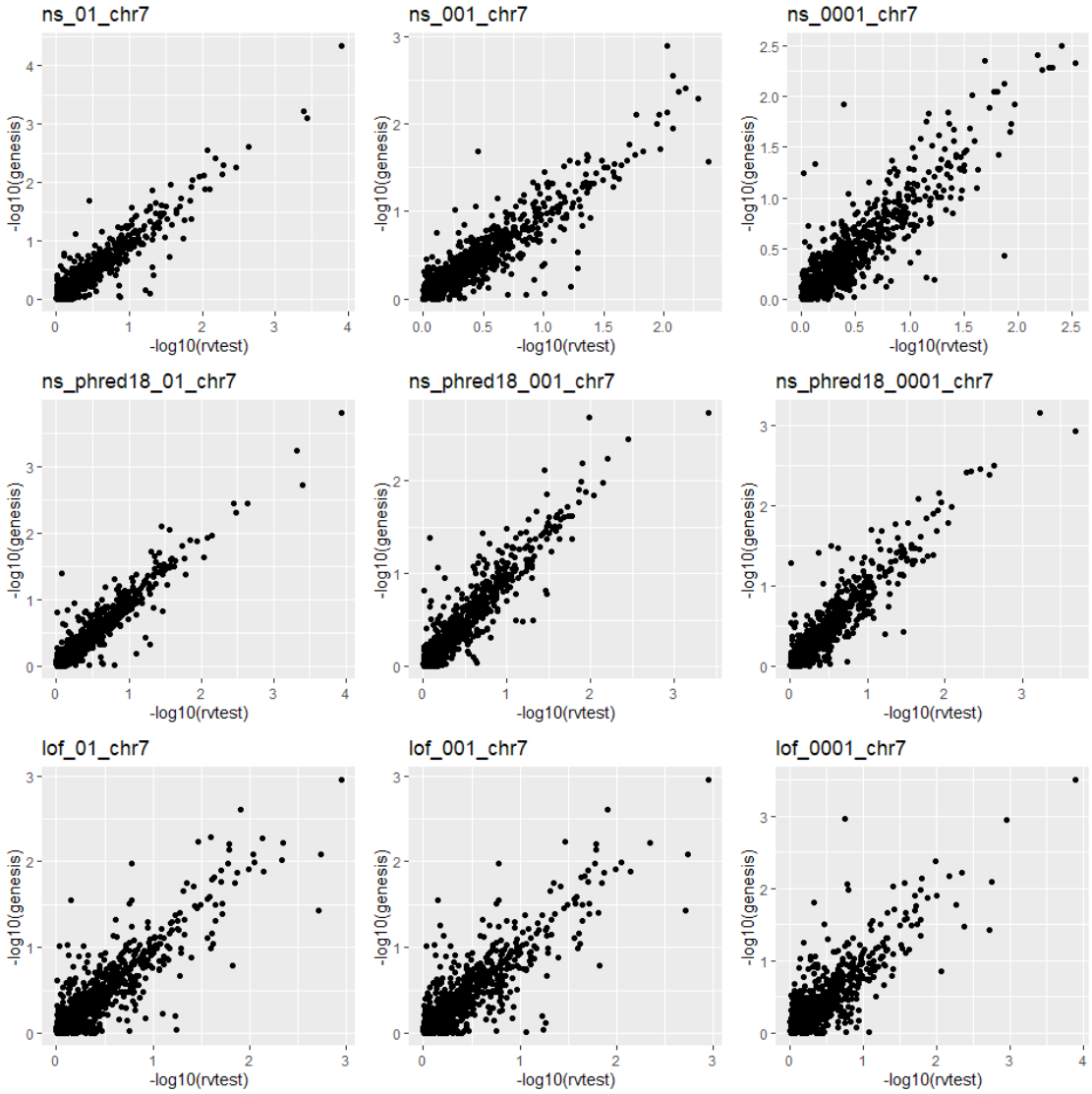

ns_01_chr2
ns_001_chr2
ns_0001_chr2
ns_phred18_01_chr2
ns_phred18_001_chr2
ns_phred18_0001_chr2
lof_01_chr2
lof_001_chr2
lof_0001_chr2
-log10(genesis)
-log10(rvtest)
0
1
2
3

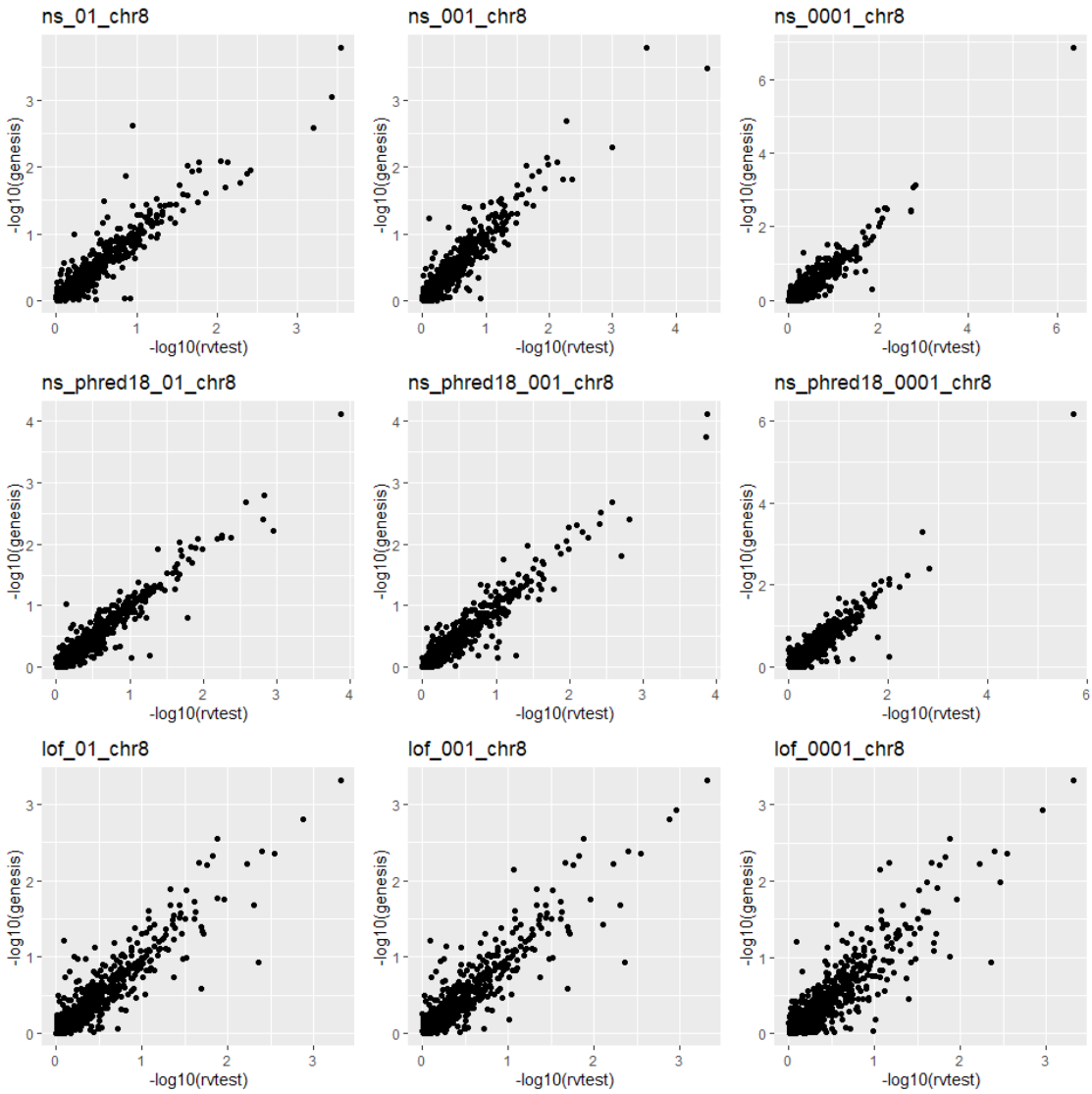

ns_01_chr3
ns_001_chr3
ns_0001_chr3
ns_phred18_01_chr3
ns_phred18_001_chr3
ns_phred18_0001_chr3
lof_01_chr3
lof_001_chr3
lof_0001_chr3
-log10(genesis)
-log10(rvtest)


ns_01_chr4
ns_001_chr4
ns_0001_chr4
ns_phred18_01_chr4
ns_phred18_001_chr4
ns_phred18_0001_chr4
lof_01_chr4
lof_001_chr4
lof_0001_chr4
-log10(genesis)
-log10(rvtest)


ns_01_chr5
ns_001_chr5
ns_0001_chr5
ns_phred18_01_chr5
ns_phred18_001_chr5
ns_phred18_0001_chr5
lof_01_chr5
lof_001_chr5
lof_0001_chr5
-log10(genesis)
-log10(rvtest)


ns_01_chr6
ns_001_chr6
ns_0001_chr6
ns_phred18_01_chr6
ns_phred18_001_chr6
ns_phred18_0001_chr6
lof_01_chr6
lof_001_chr6
lof_0001_chr6
-log10(genesis)
-log10(rvtest)


ns_01_chr7
ns_001_chr7
ns_0001_chr7
ns_phred18_01_chr7
ns_phred18_001_chr7
ns_phred18_0001_chr7
lof_01_chr7
lof_001_chr7
lof_0001_chr7
-log10(genesis)
-log10(rvtest)

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## Warning: Removed 1 rows containing missing values (geom_point).
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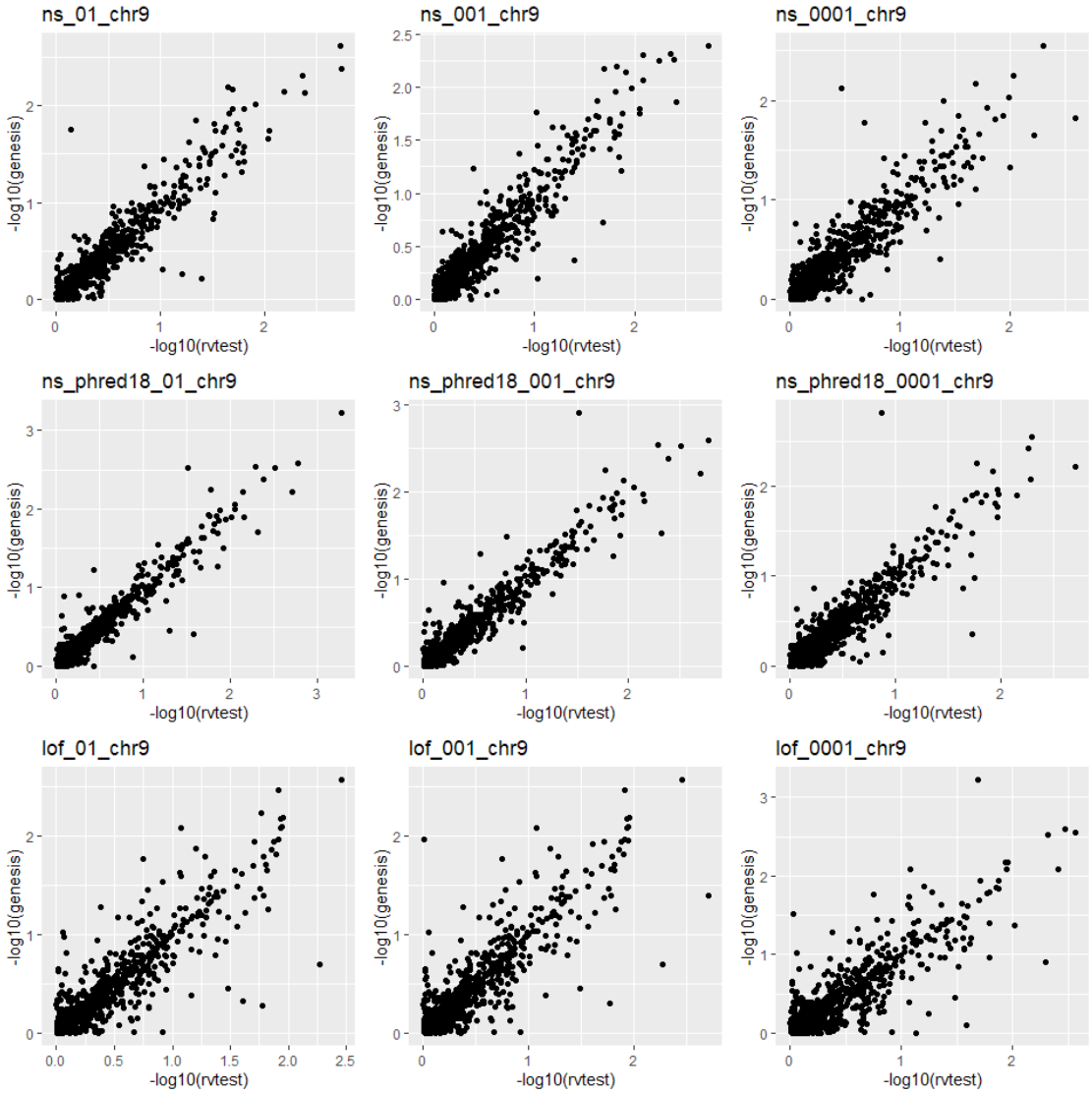
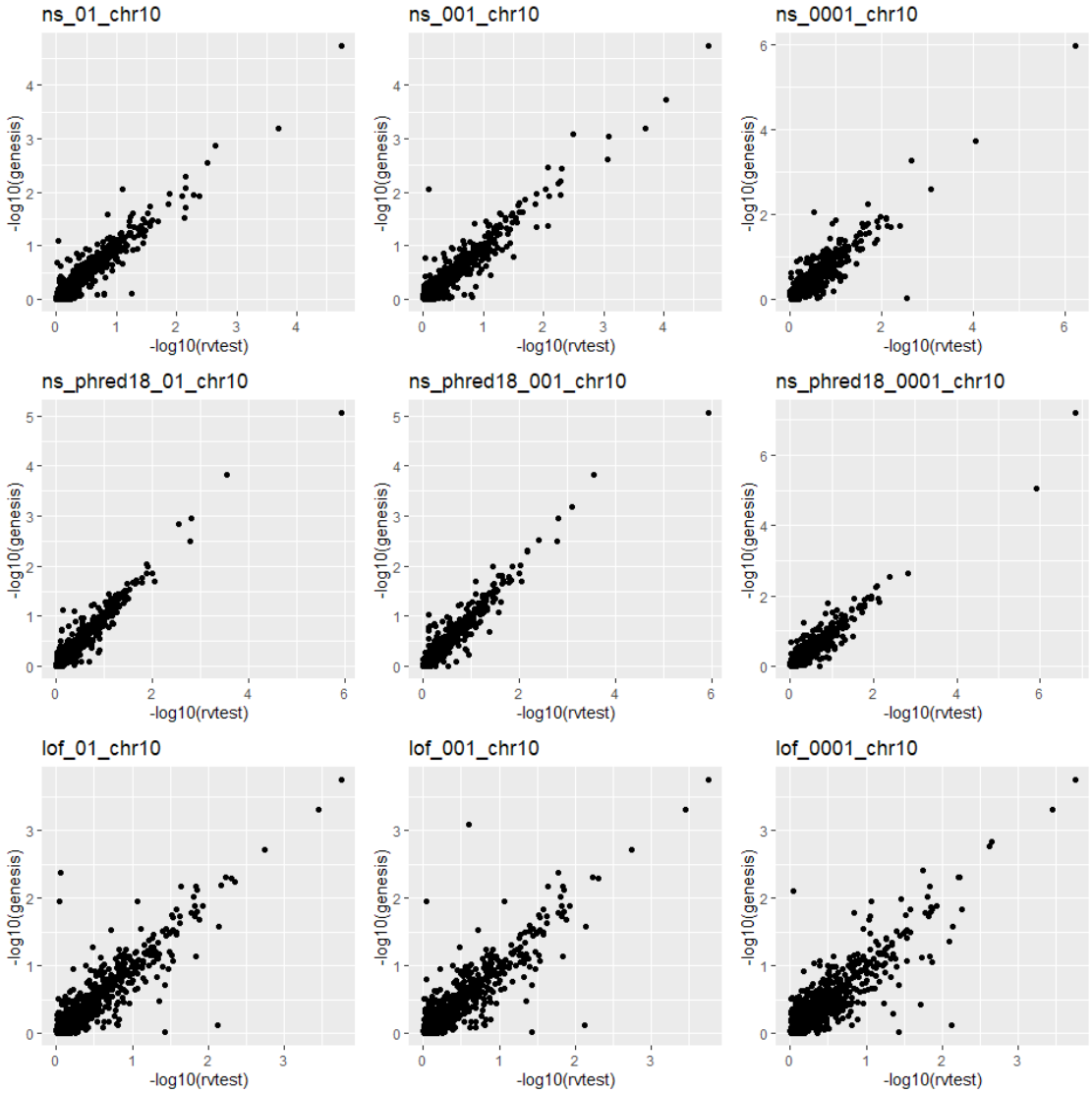
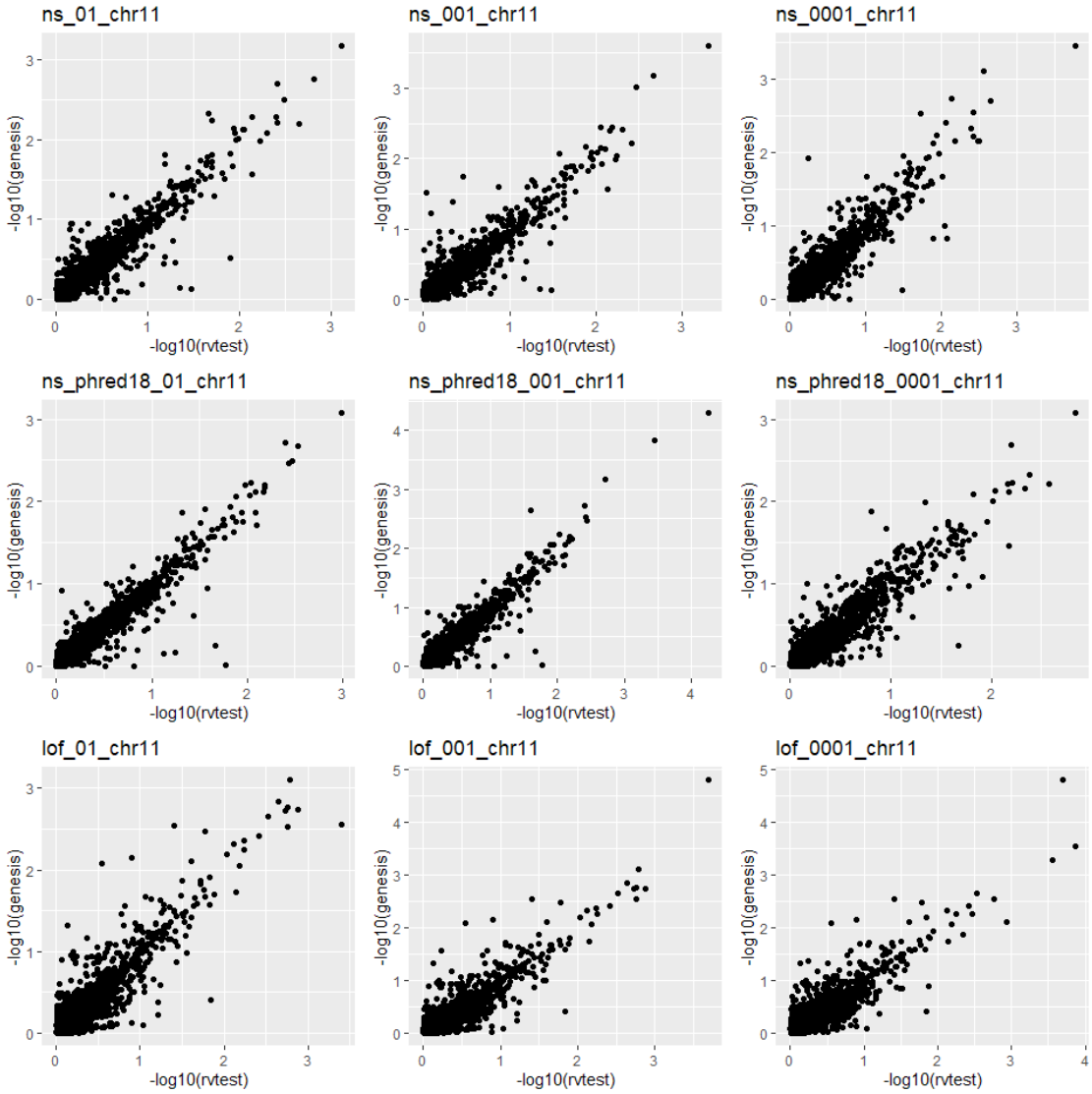
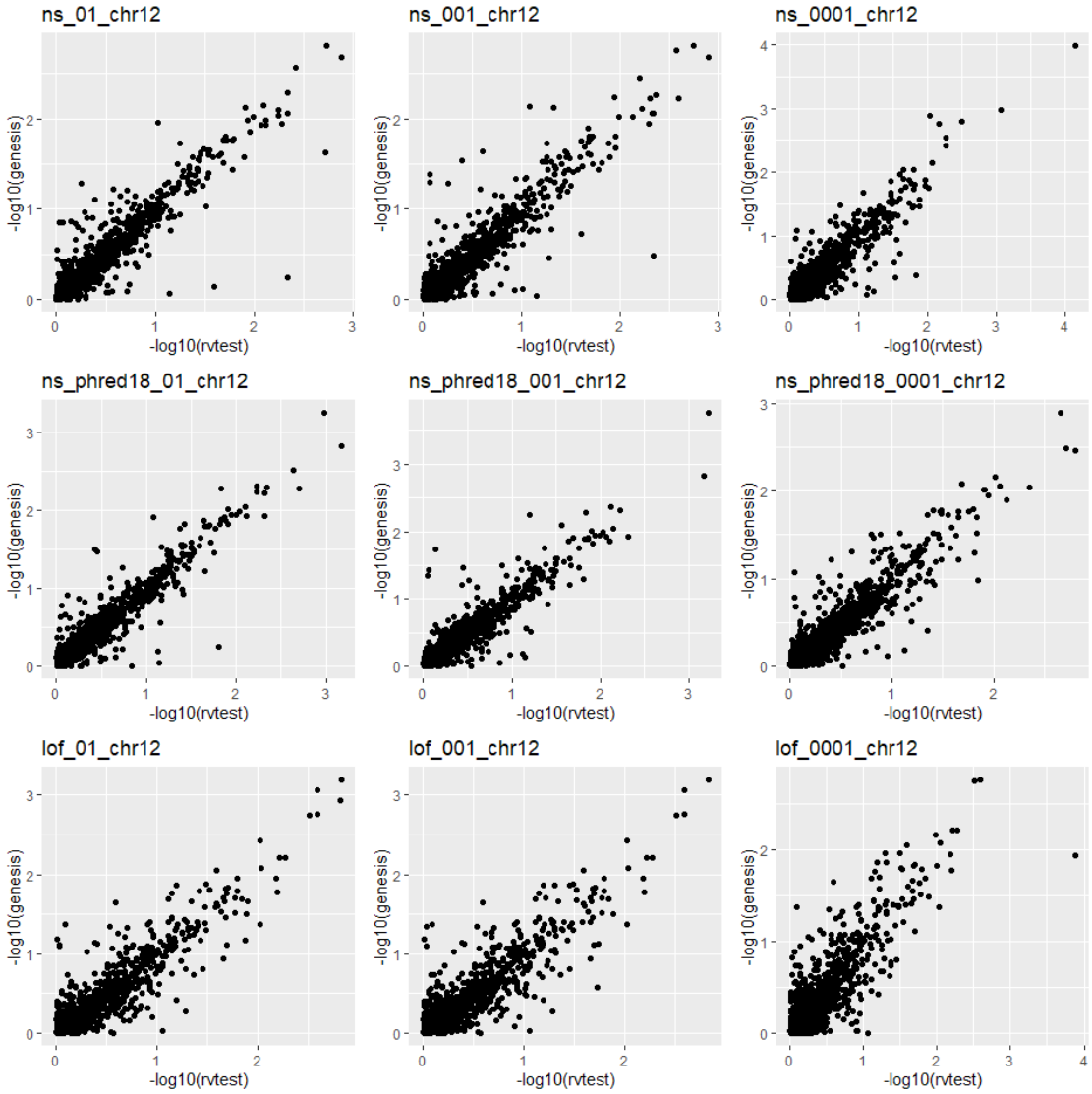
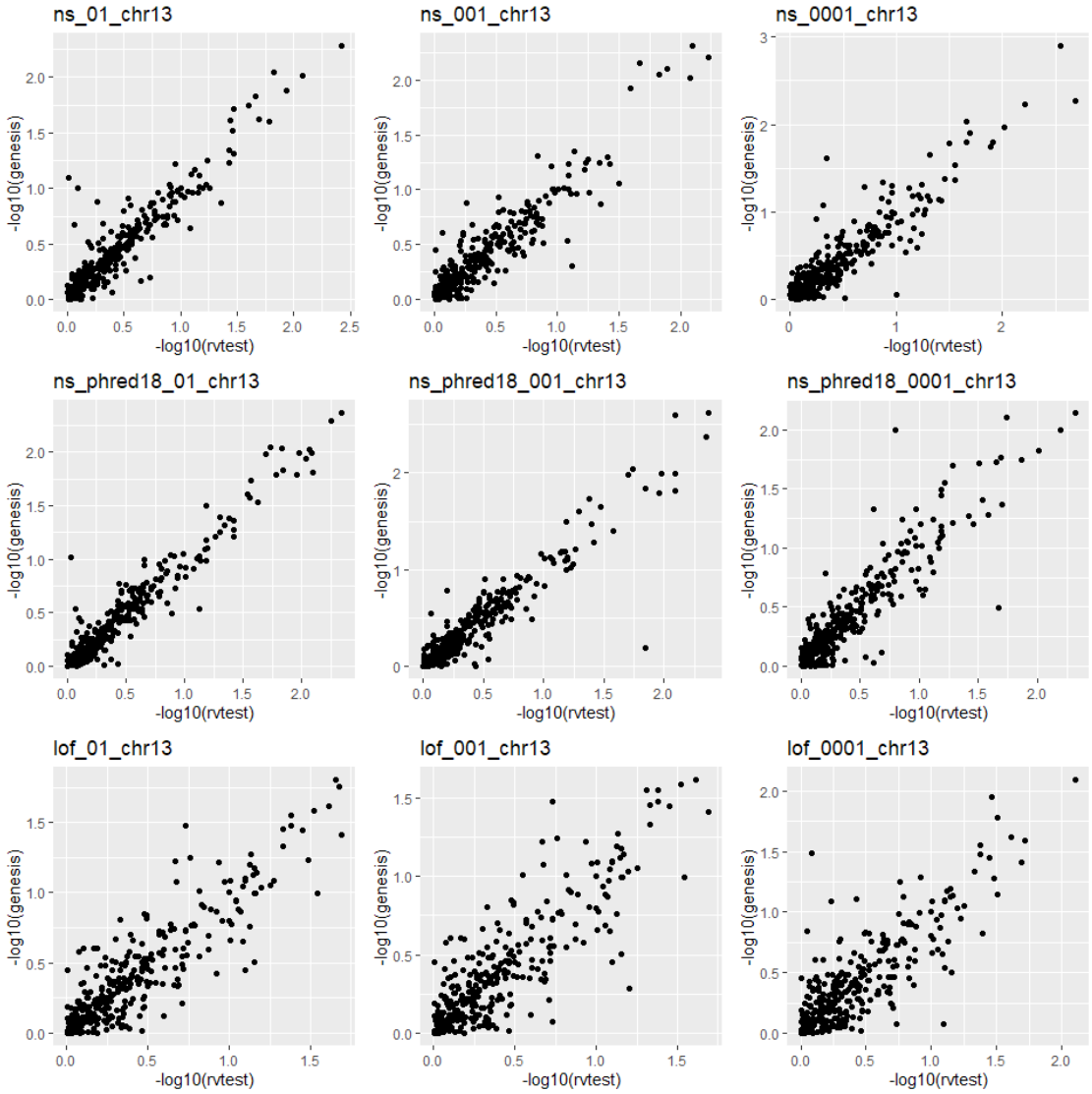
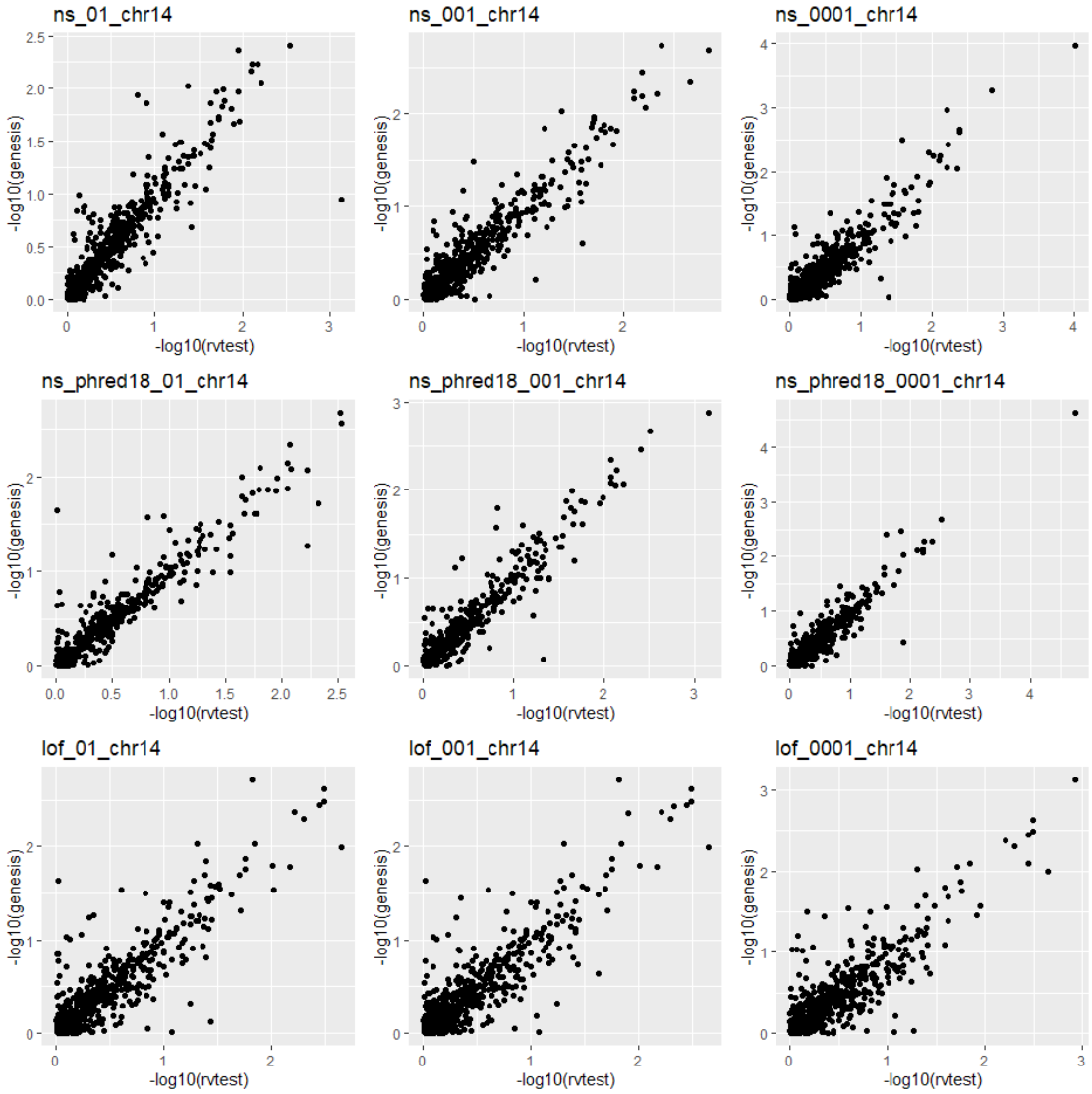

ns_01_chr9
ns_001_chr9
ns_0001_chr9
ns_phred18_01_chr9
ns_phred18_001_chr9
ns_phred18_0001_chr9
lof_01_chr9
lof_001_chr9
lof_0001_chr9
-log10(genesis)
-log10(rvtest)


ns_01_chr10
ns_001_chr10
ns_0001_chr10
ns_phred18_01_chr10
ns_phred18_001_chr10
ns_phred18_0001_chr10
lof_01_chr10
lof_001_chr10
lof_0001_chr10
-log10(genesis)
-log10(rvtest)


ns_01_chr11
ns_001_chr11
ns_0001_chr11
ns_phred18_01_chr11
ns_phred18_001_chr11
ns_phred18_0001_chr11
lof_01_chr11
lof_001_chr11
lof_0001_chr11
-log10(genesis)
-log10(rvtest)


ns_01_chr12
ns_001_chr12
ns_0001_chr12
ns_phred18_01_chr12
ns_phred18_001_chr12
ns_phred18_0001_chr12
lof_01_chr12
lof_001_chr12
lof_0001_chr12
-log10(genesis)
-log10(rvtest)


ns_01_chr13
ns_001_chr13
ns_0001_chr13
ns_phred18_01_chr13
ns_phred18_001_chr13
ns_phred18_0001_chr13
lof_01_chr13
lof_001_chr13
lof_0001_chr13
-log10(genesis)
-log10(rvtest)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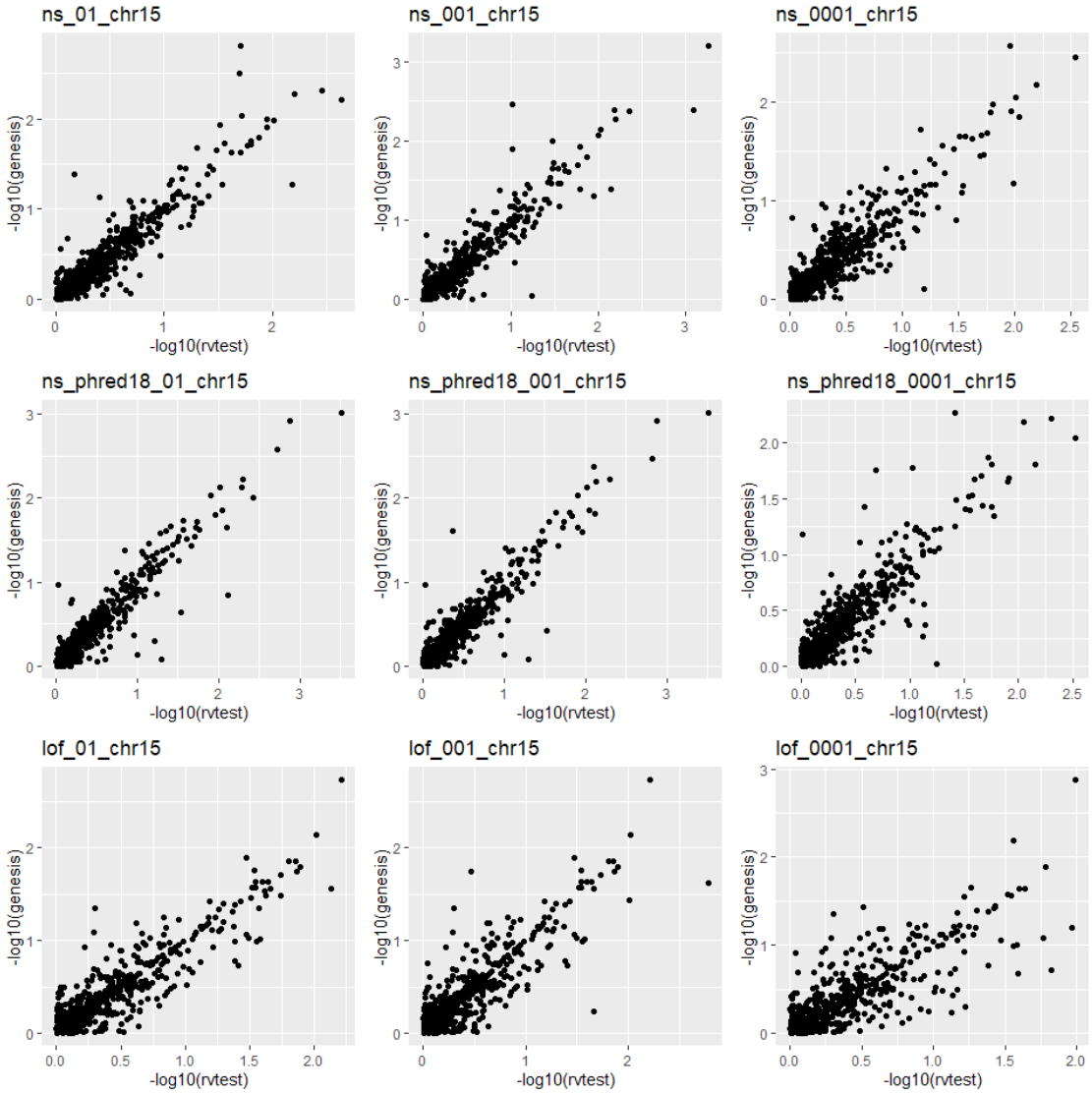
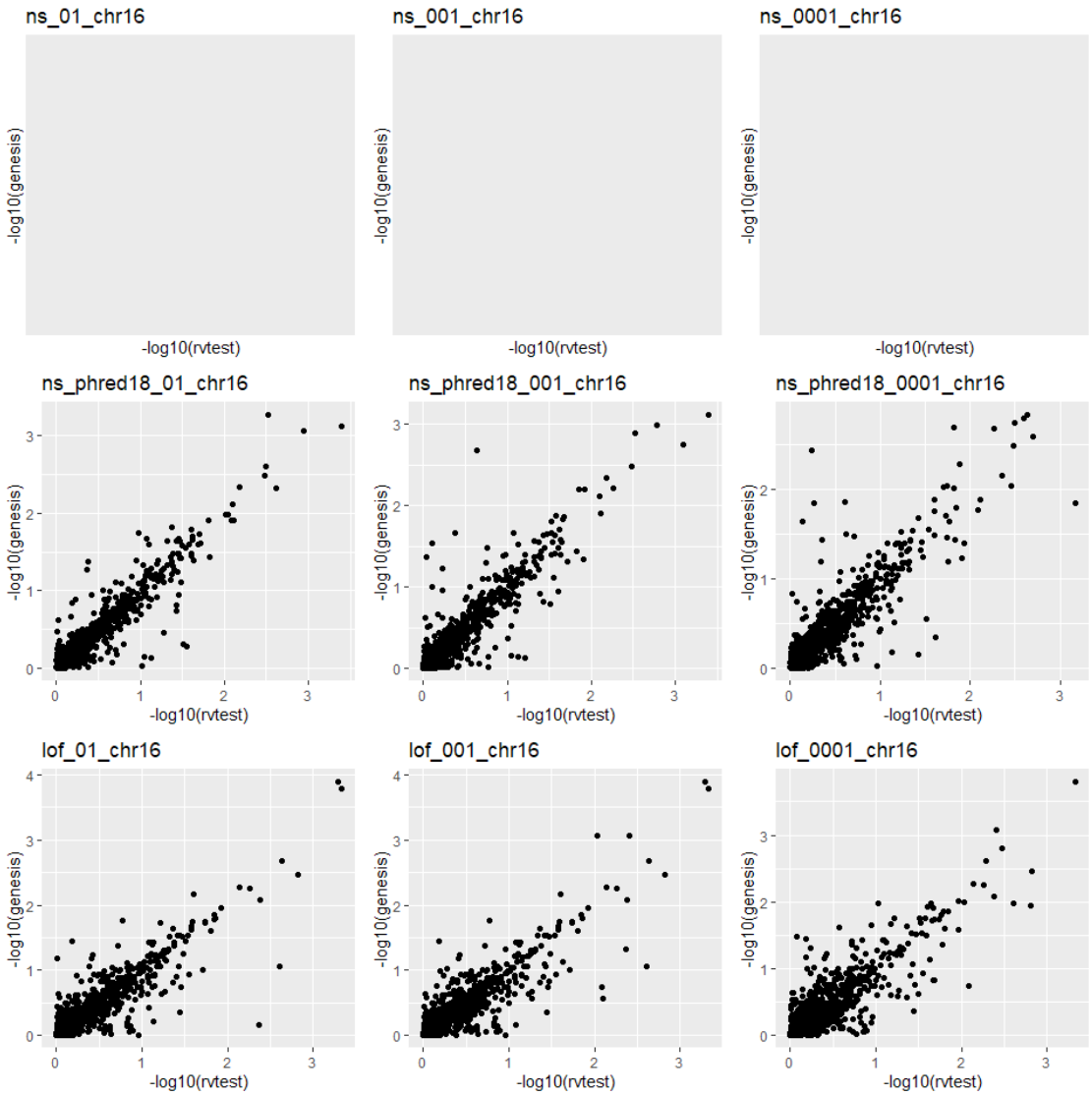
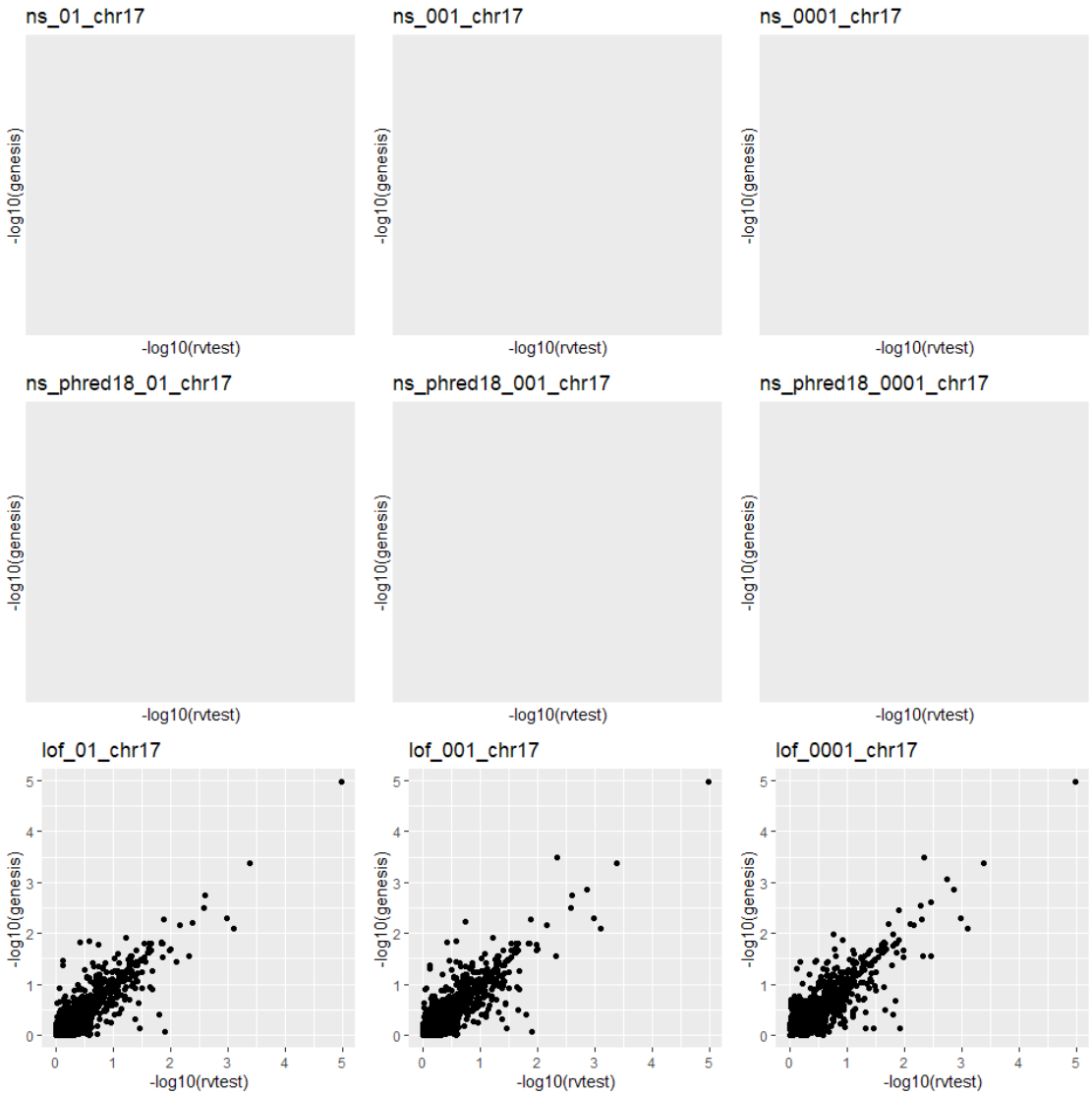
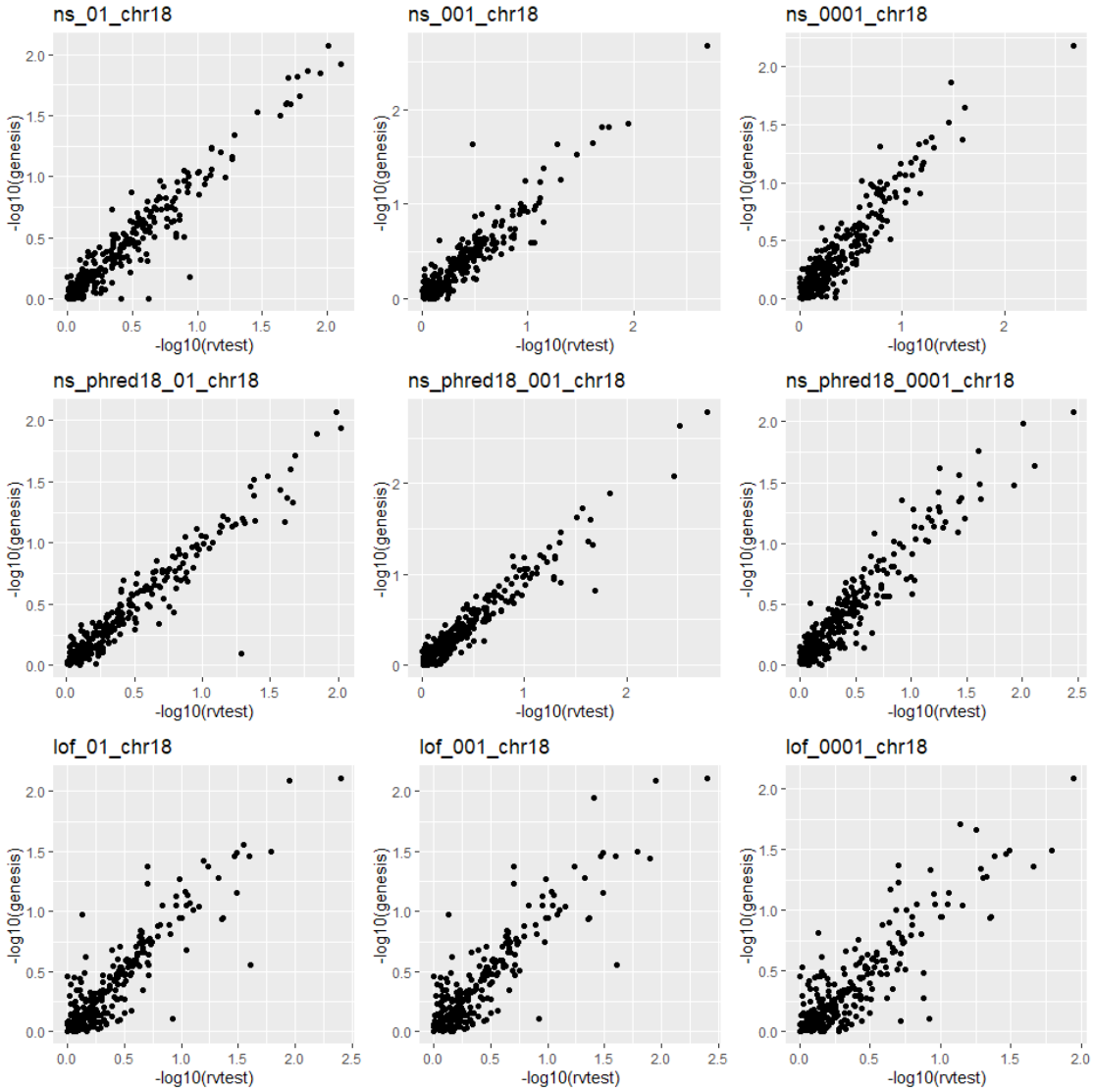
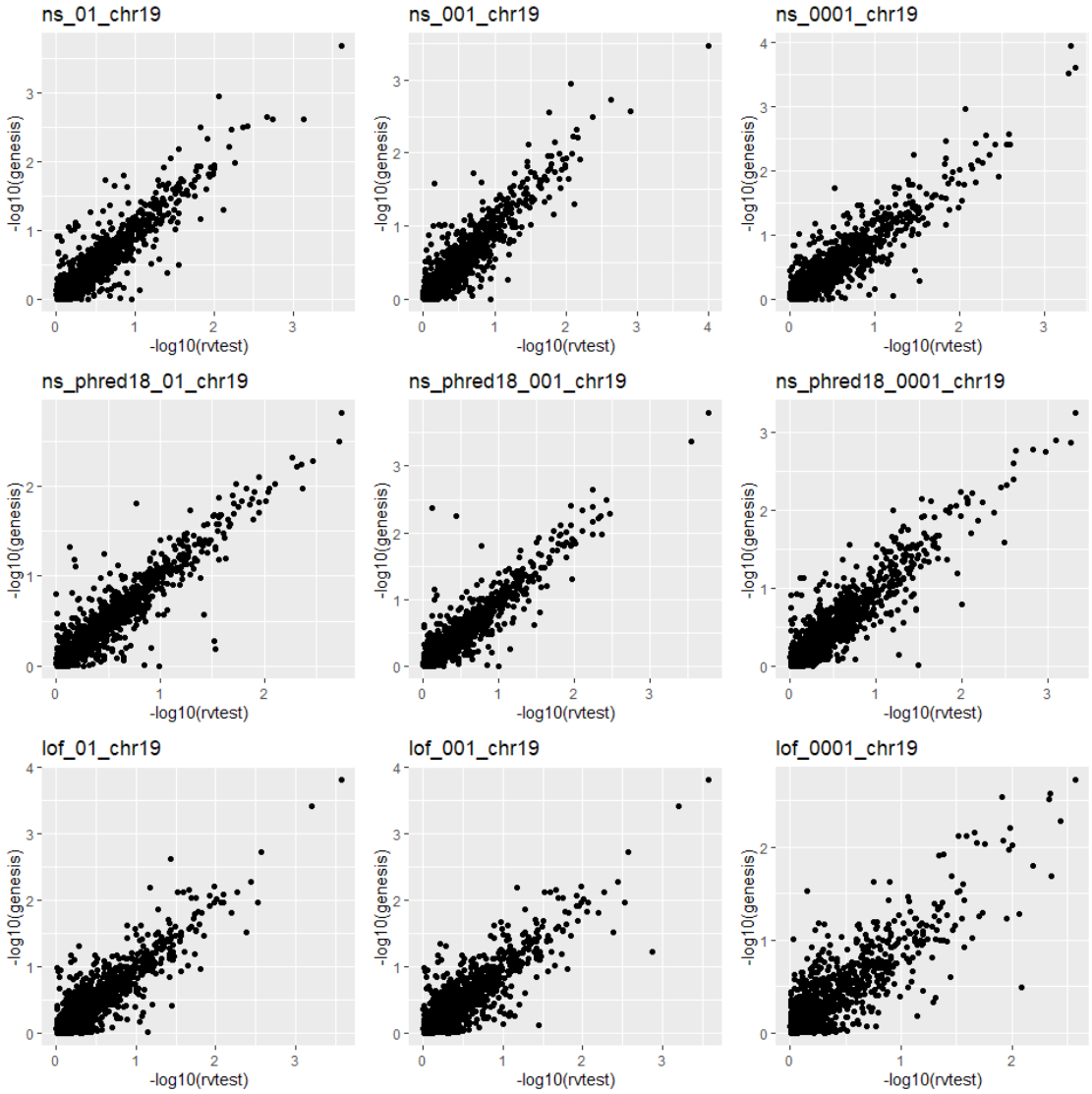
ns_001_chr14
ns_0001_chr14
ns_phred18_01_chr14
ns_phred18_001_chr14
ns_phred18_0001_chr14
lof_01_chr14
lof_001_chr14
lof_0001_chr14
-log10(genesis)
-log10(rvtest)

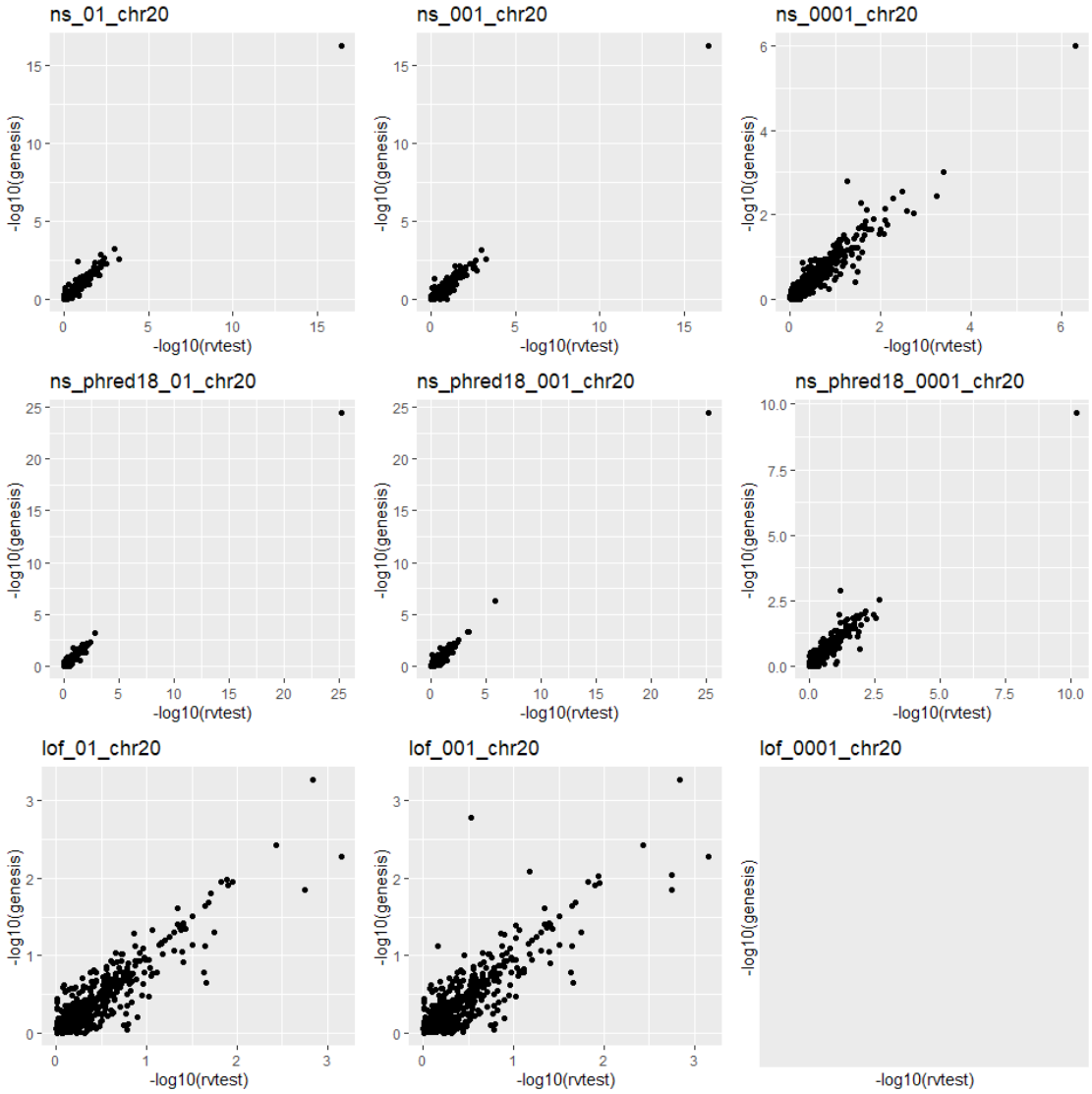

ns_01_chr15
ns_001_chr15
ns_0001_chr15
ns_phred18_01_chr15
ns_phred18_001_chr15
ns_phred18_0001_chr15
lof_01_chr15
lof_001_chr15
lof_0001_chr15
-log10(genesis)
-log10(rvtest)

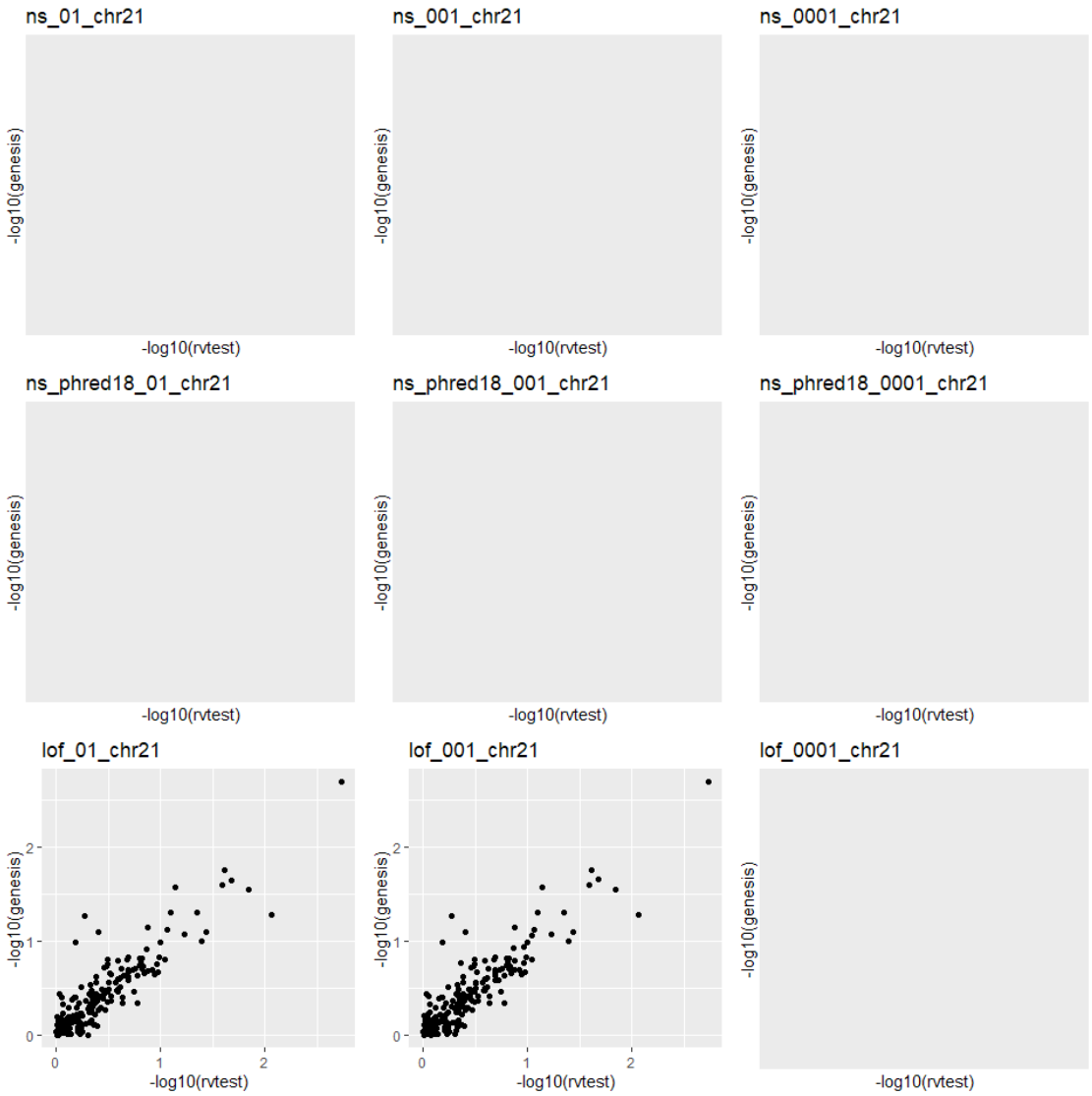

ns_01_chr16
ns_001_chr16
ns_0001_chr16
ns_phred18_01_chr16
ns_phred18_001_chr16
ns_phred18_0001_chr16
lof_01_chr16
lof_001_chr16
lof_0001_chr16
-log10(genesis)
-log10(rvtest)

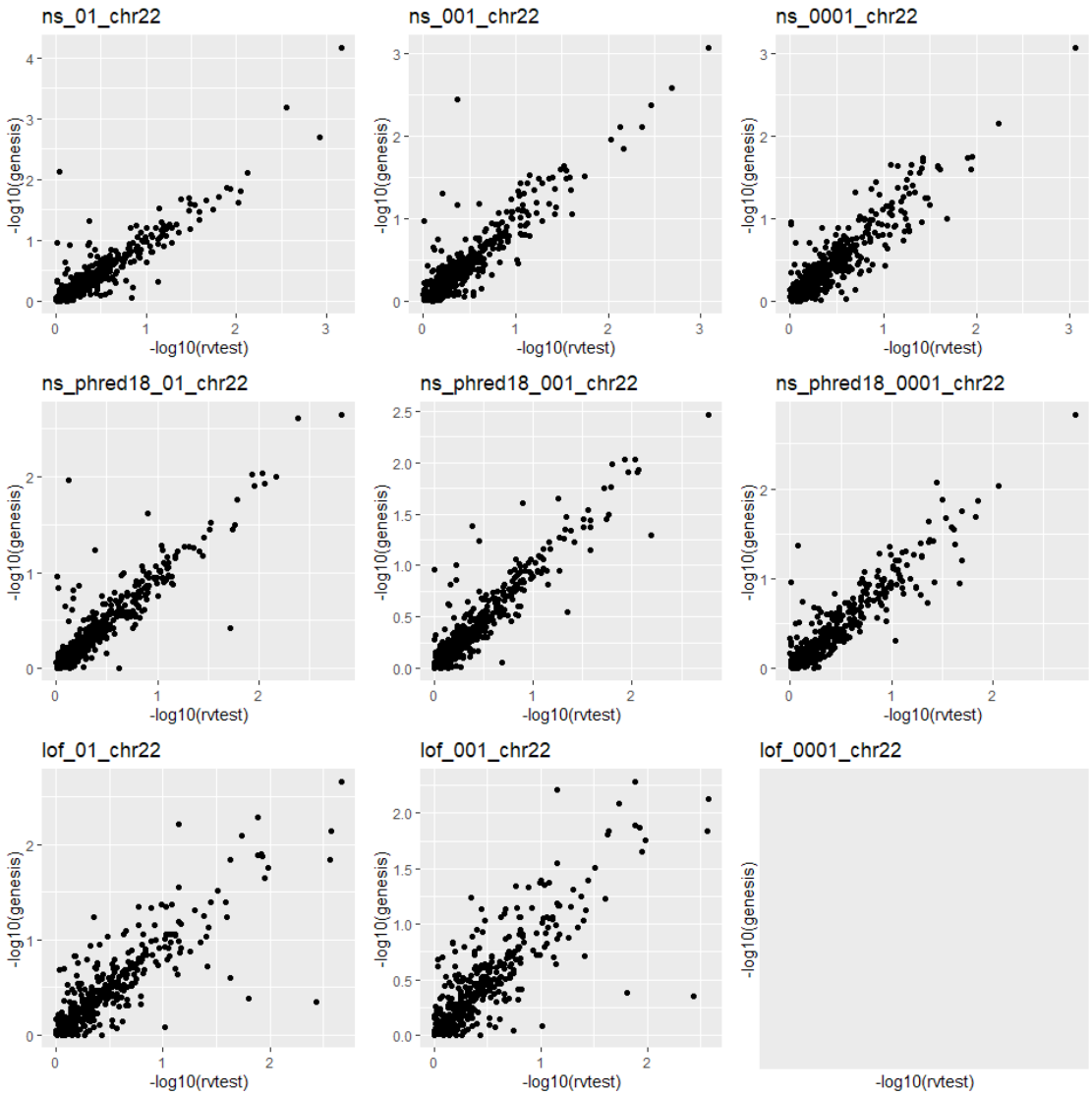

ns_01_chr17
ns_001_chr17
ns_0001_chr17
ns_phred18_01_chr17
ns_phred18_001_chr17
ns_phred18_0001_chr17
lof_01_chr17
lof_001_chr17
lof_0001_chr17
-log10(genesis)
-log10(rvtest)
0
1
2
3
4
5


ns_01_chr18
ns_001_chr18
ns_0001_chr18
ns_phred18_01_chr18
ns_phred18_001_chr18
ns_phred18_0001_chr18
lof_01_chr18
lof_001_chr18
lof_0001_chr18
-log10(genesis)
-log10(rvtest)

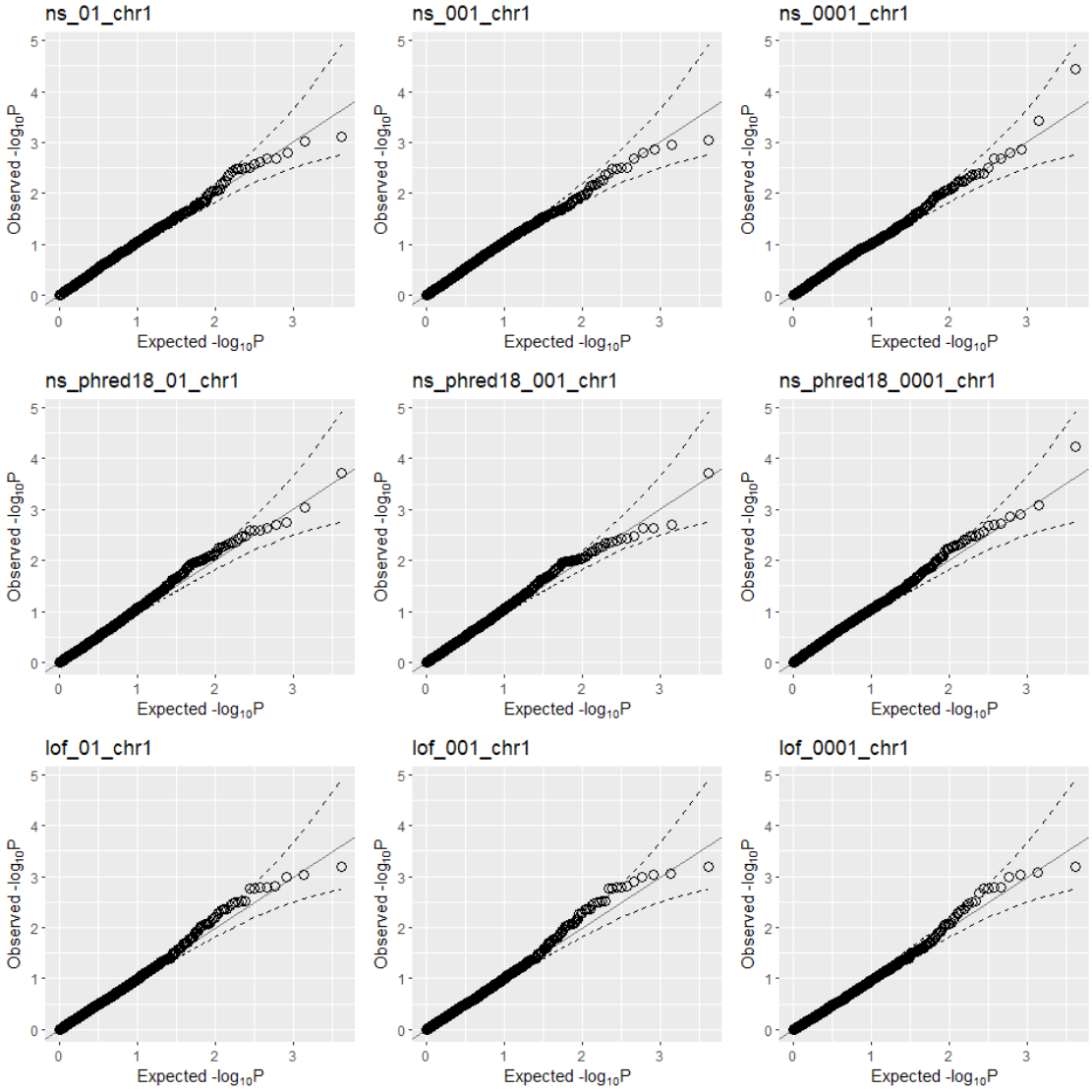

ns_01_chr19
ns_001_chr19
ns_0001_chr19
ns_phred18_01_chr19
ns_phred18_001_chr19
ns_phred18_0001_chr19
lof_01_chr19
lof_001_chr19
lof_0001_chr19
-log10(genesis)
-log10(rvtest)

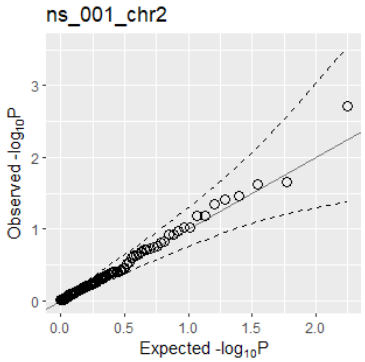

ns_01_chr20
ns_001_chr20
ns_0001_chr20
ns_phred18_01_chr20
ns_phred18_001_chr20
ns_phred18_0001_chr20
lof_01_chr20
lof_001_chr20
lof_0001_chr20
-log10(genesis)
-log10(rvtest)

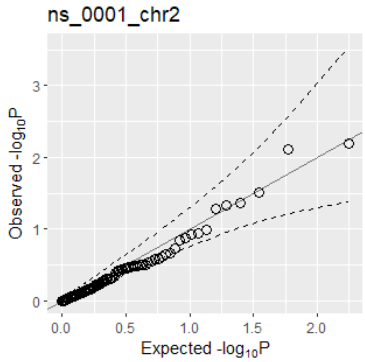

ns_01_chr21
ns_001_chr21
ns_0001_chr21
ns_phred18_01_chr21
ns_phred18_001_chr21
ns_phred18_0001_chr21
lof_01_chr21
lof_001_chr21
lof_0001_chr21
-log10(genesis)
-log10(rvtest)
0
1
2

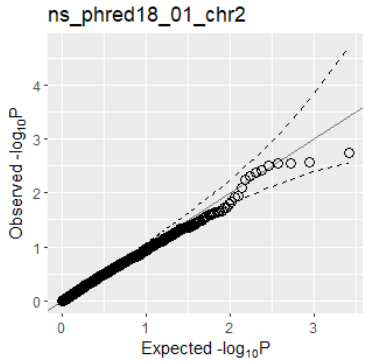

ns_01_chr22
ns_001_chr22
ns_0001_chr22
ns_phred18_01_chr22
ns_phred18_001_chr22
ns_phred18_0001_chr22
lof_01_chr22
lof_001_chr22
lof_0001_chr22
-log10(genesis)
-log10(rvtest)

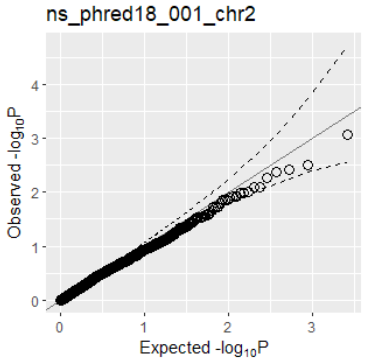
QQ-Plots

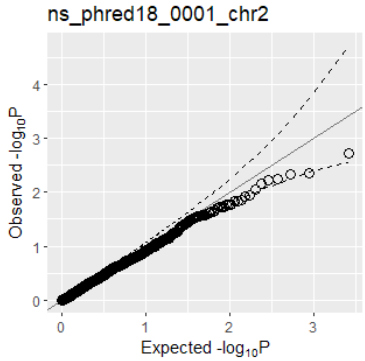

ns_01_chr1
ns_001_chr1
ns_0001_chr1
ns_phred18_01_chr1
ns_phred18_001_chr1
ns_phred18_0001_chr1
lof_01_chr1
lof_001_chr1
lof_0001_chr1
Observed -log10P
Expected -log10P

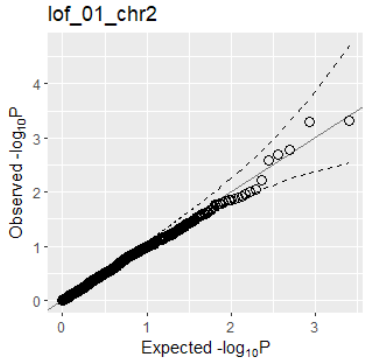

ns_001_chr2
Observed -log10P
Expected -log10P

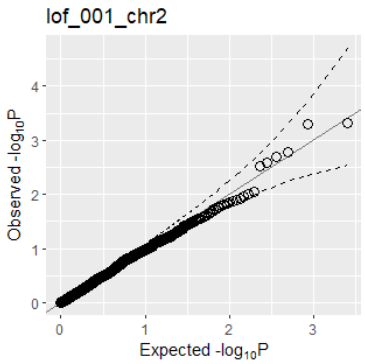

ns_0001_chr2
Observed -log10P
Expected -log10P

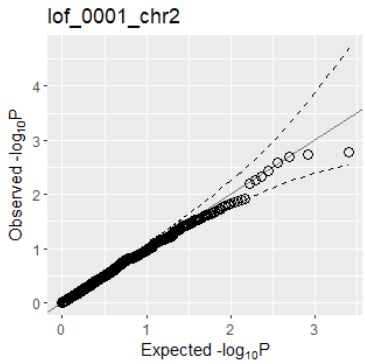

ns_phred18_01_chr2
Observed -log10P
Expected -log10P

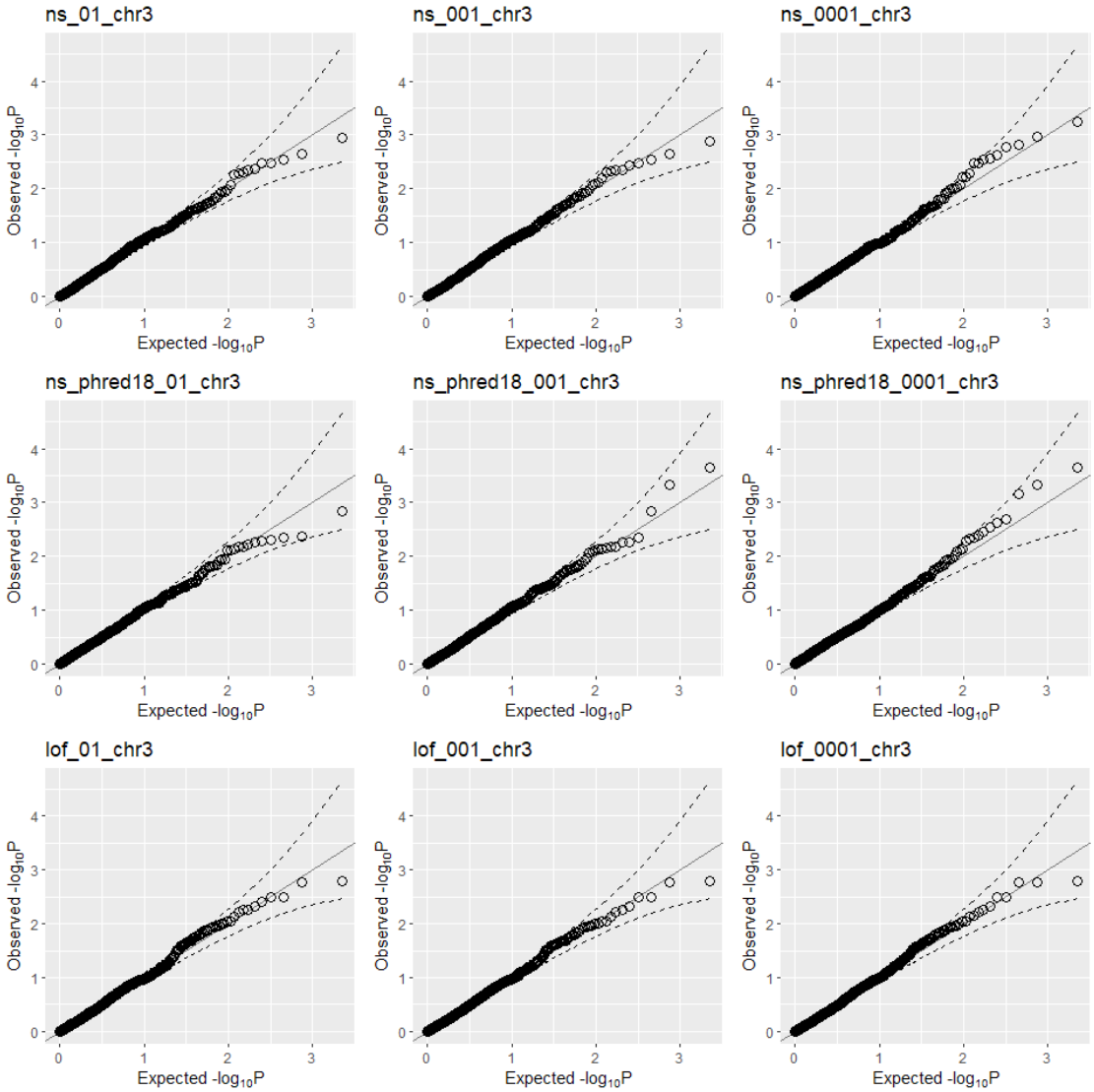

ns_phred18_001_chr2
Observed -log10P
Expected -log10P

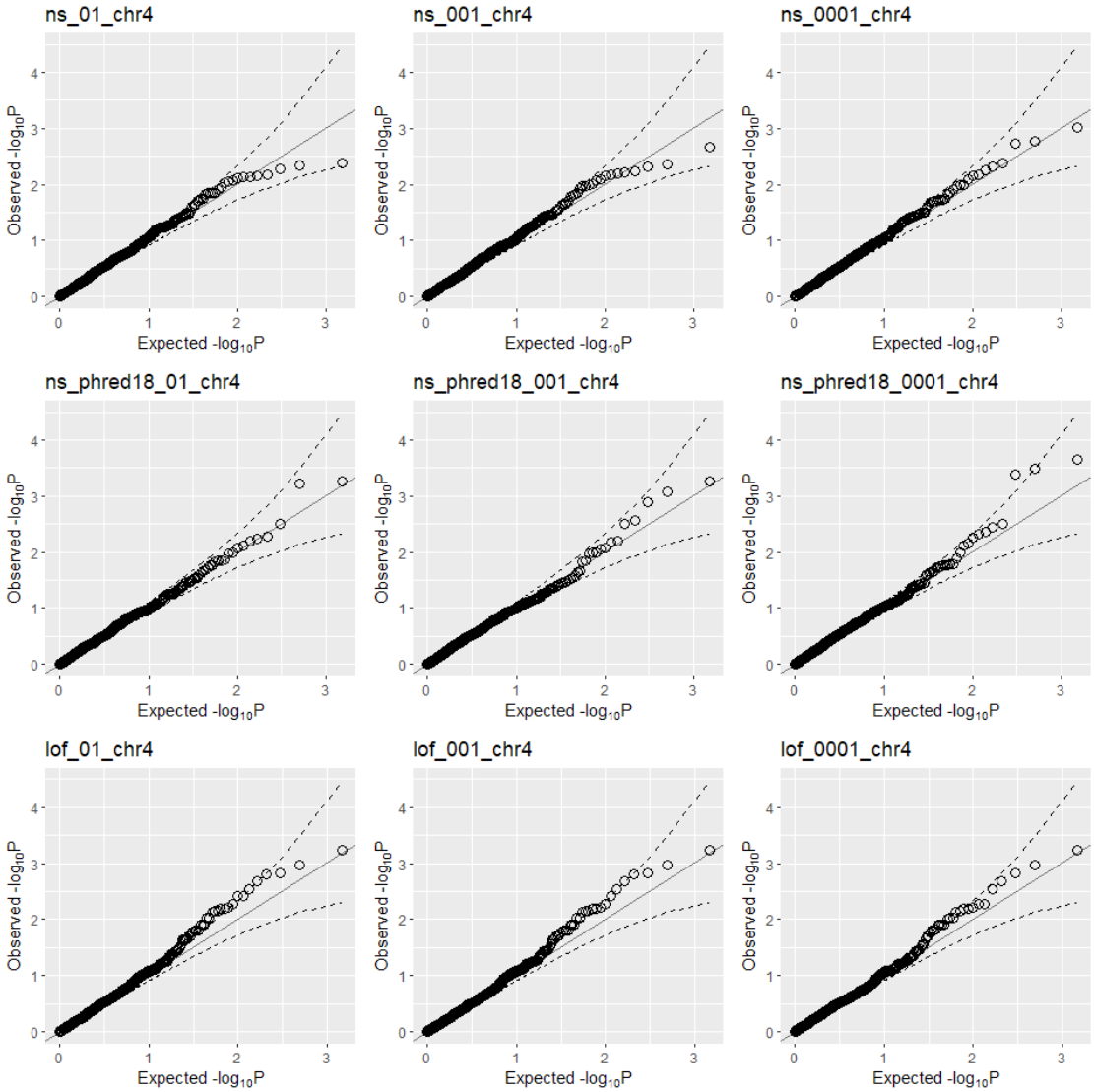

ns_phred18_0001_chr2
Observed -log10P
Expected -log10P

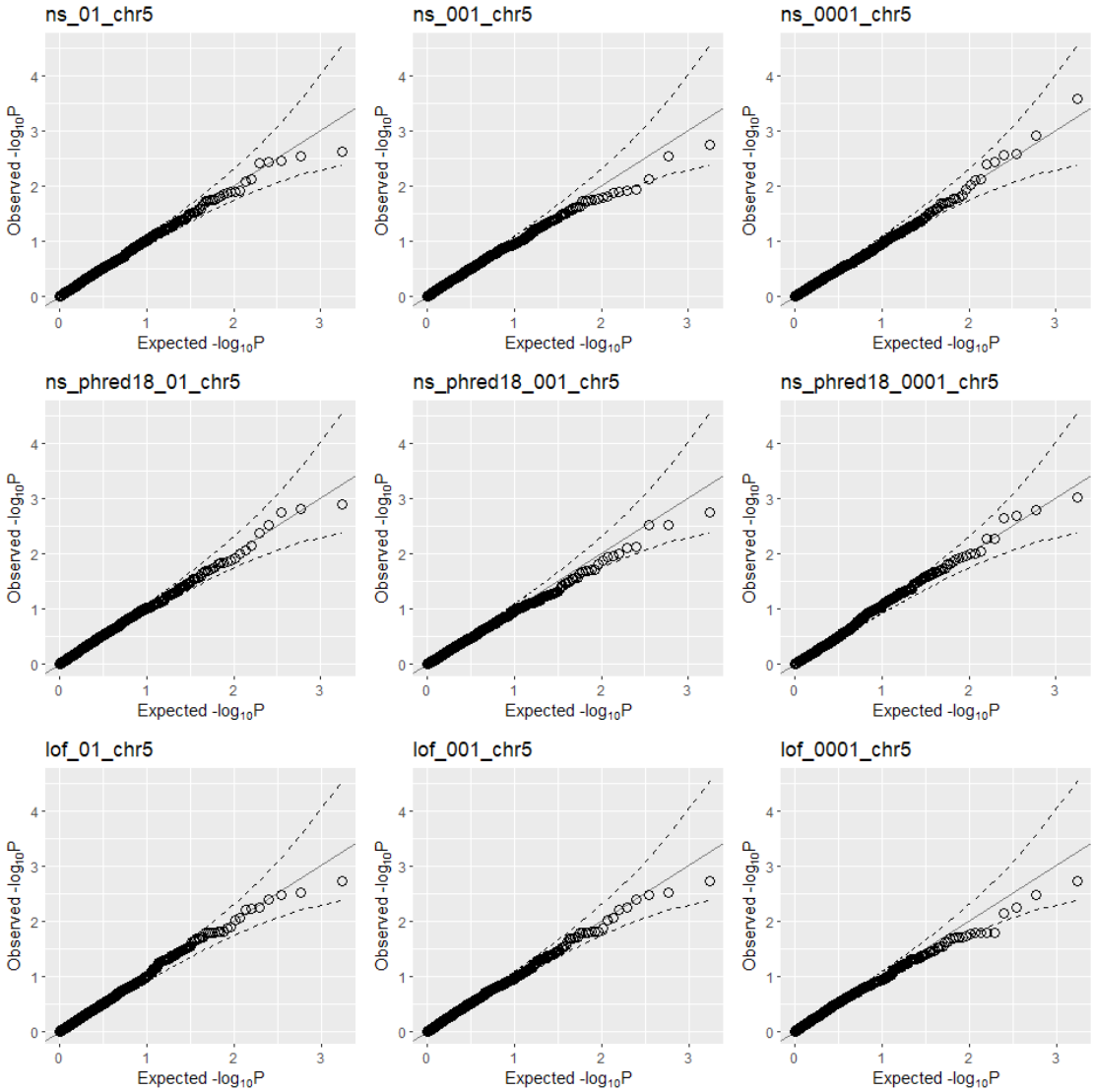

lof_01_chr2
Observed -log10P
Expected -log10P

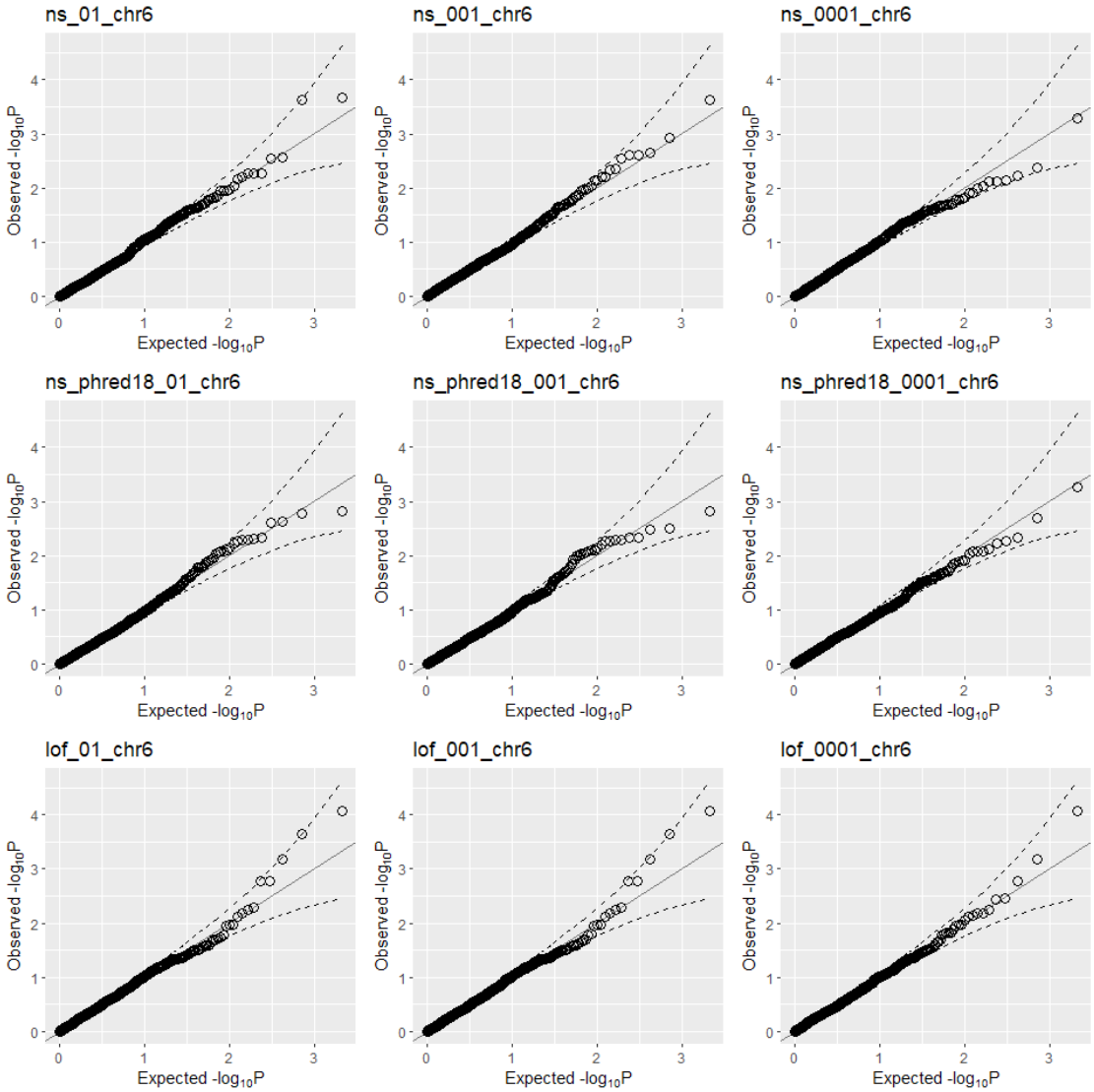

lof_001_chr2
Observed -log10P
Expected -log10P

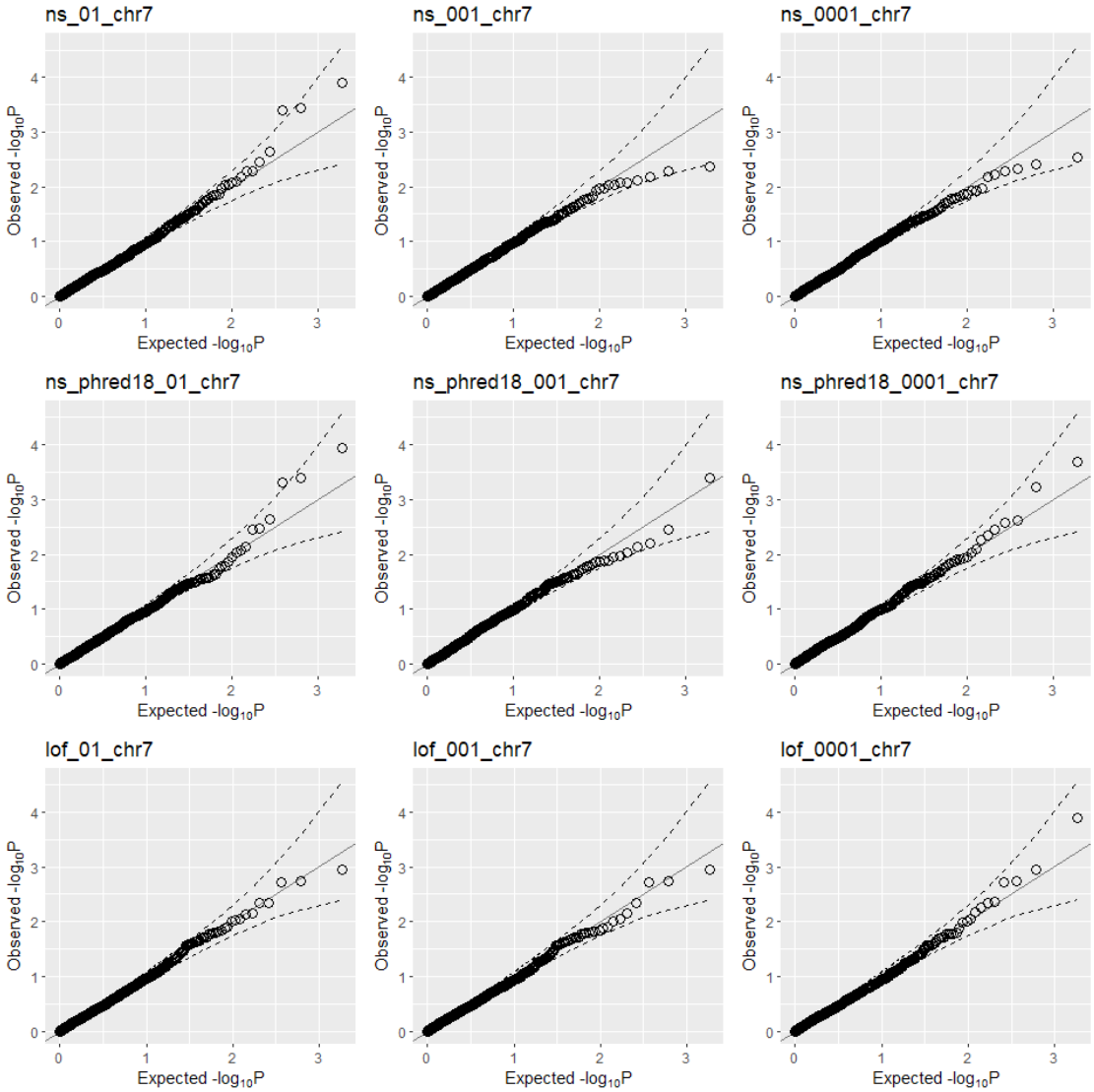

lof_0001_chr2
Observed -log10P
Expected -log10P

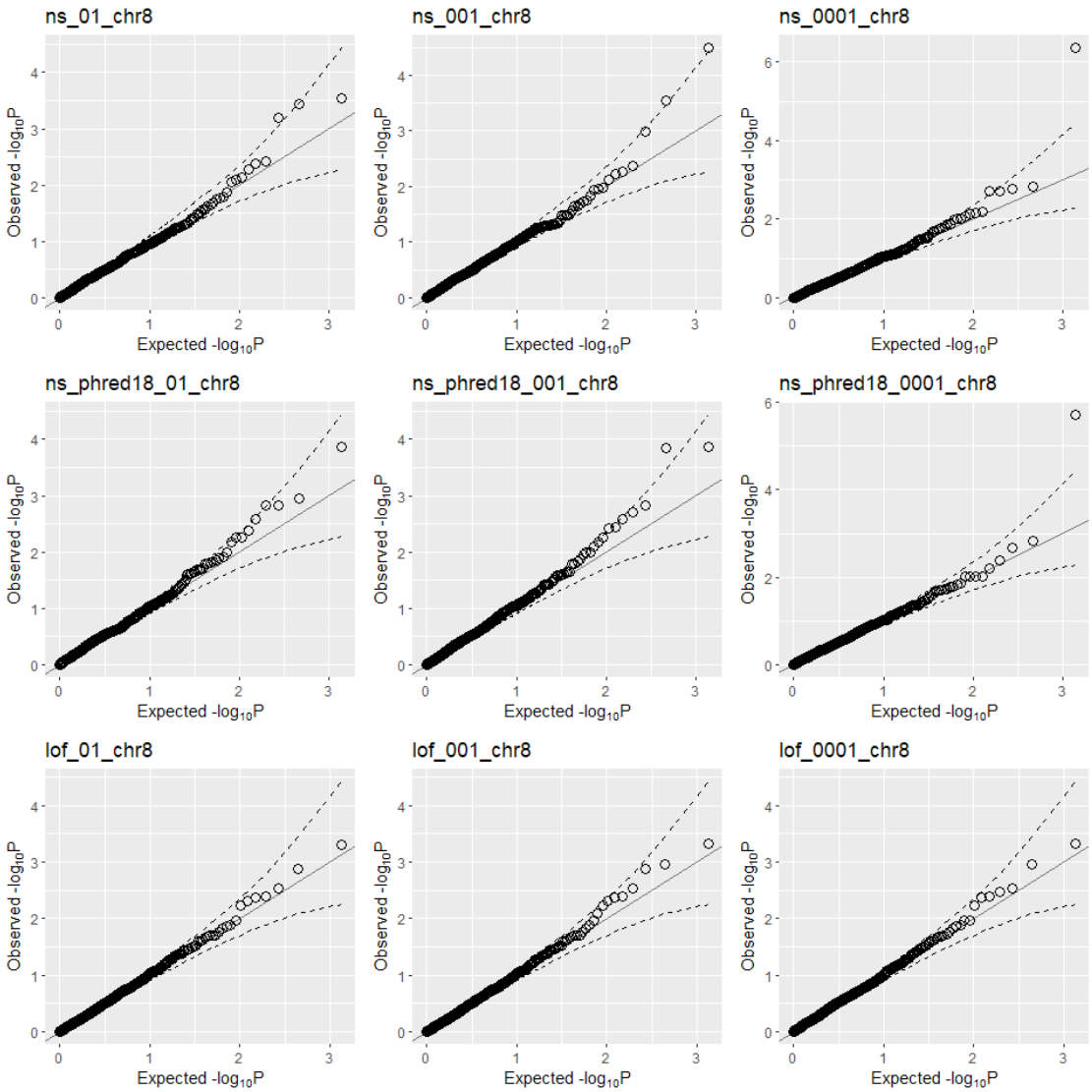

ns_01_chr3
ns_001_chr3
ns_0001_chr3
ns_phred18_01_chr3
ns_phred18_001_chr3
ns_phred18_0001_chr3
lof_01_chr3
lof_001_chr3
lof_0001_chr3
Observed -log10P
Expected -log10P
0
1
2
3
4

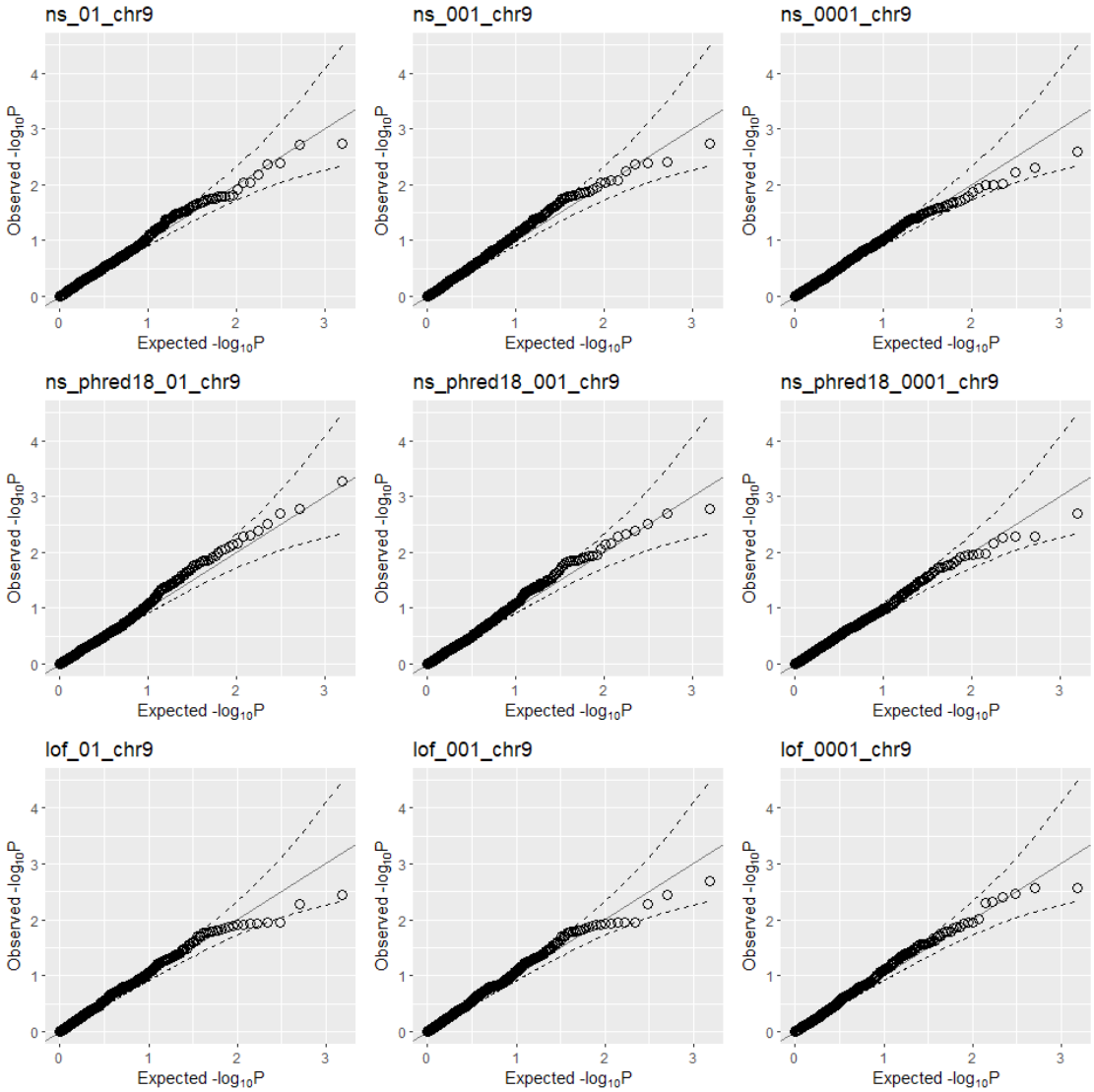

ns_01_chr4
ns_001_chr4
ns_0001_chr4
ns_phred18_01_chr4
ns_phred18_001_chr4
ns_phred18_0001_chr4
lof_01_chr4
lof_001_chr4
lof_0001_chr4
Observed -log10P
Expected -log10P
0
1
2
3
4

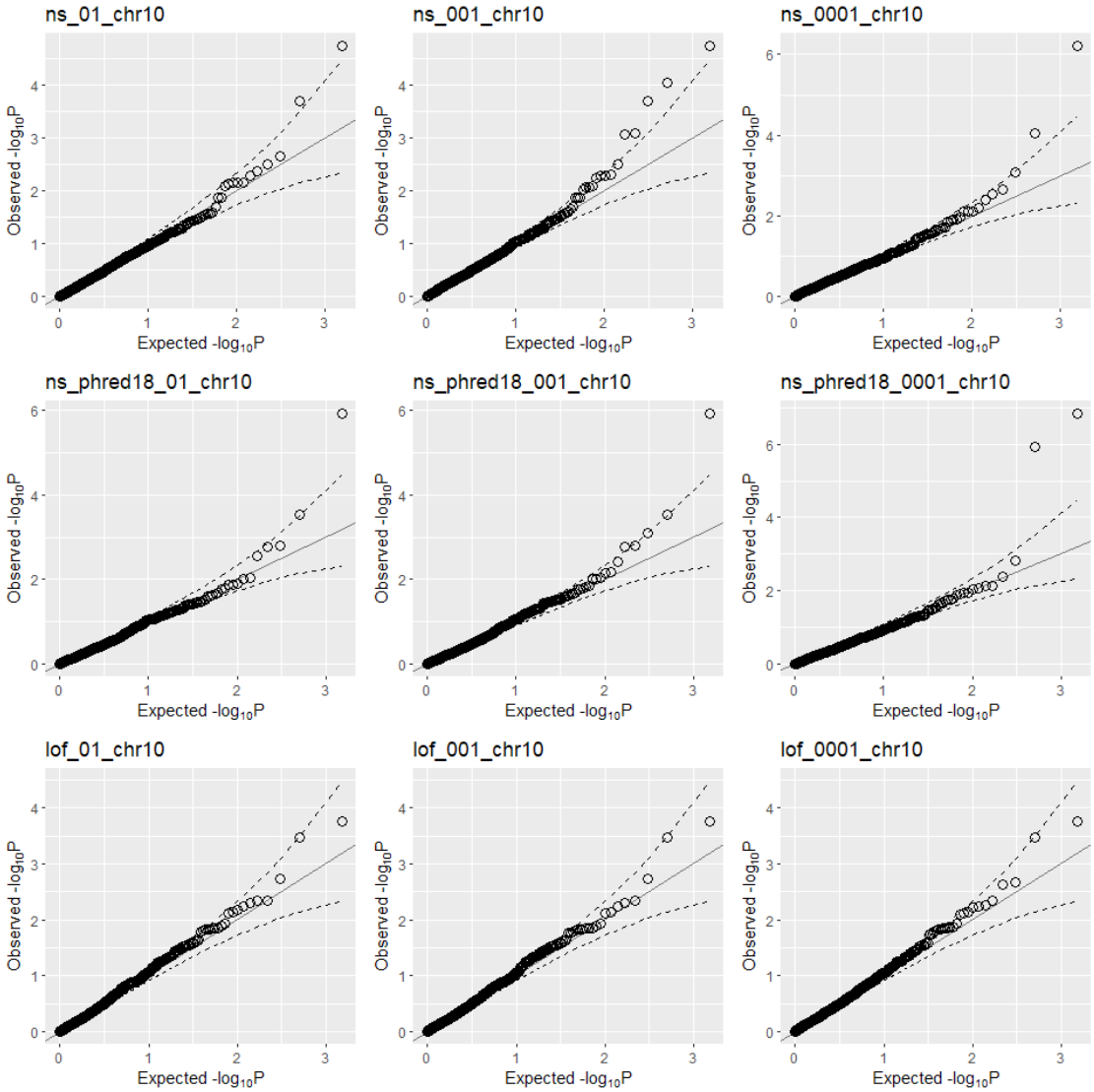

ns_01_chr5
ns_001_chr5
ns_0001_chr5
ns_phred18_01_chr5
ns_phred18_001_chr5
ns_phred18_0001_chr5
lof_01_chr5
lof_001_chr5
lof_0001_chr5
Observed -log10P
Expected -log10P
0
1
2
3
4


ns_01_chr6
ns_001_chr6
ns_0001_chr6
ns_phred18_01_chr6
ns_phred18_001_chr6
ns_phred18_0001_chr6
lof_01_chr6
lof_001_chr6
lof_0001_chr6
Observed -log10P
Expected -log10P
0
1
2
3
4


ns_01_chr7
ns_001_chr7
ns_0001_chr7
ns_phred18_01_chr7
ns_phred18_001_chr7
ns_phred18_0001_chr7
lof_01_chr7
lof_001_chr7
lof_0001_chr7
Observed -log10P
Expected -log10P
0
1
2
3
4


ns_01_chr8
ns_001_chr8
ns_0001_chr8
ns_phred18_01_chr8
ns_phred18_001_chr8
ns_phred18_0001_chr8
lof_01_chr8
lof_001_chr8
lof_0001_chr8
Observed -log10P
Expected -log10P


ns_01_chr9
ns_001_chr9
ns_0001_chr9
ns_phred18_01_chr9
ns_phred18_001_chr9
ns_phred18_0001_chr9
lof_01_chr9
lof_001_chr9
lof_0001_chr9
Observed -log10P
Expected -log10P
0
1
2
3
4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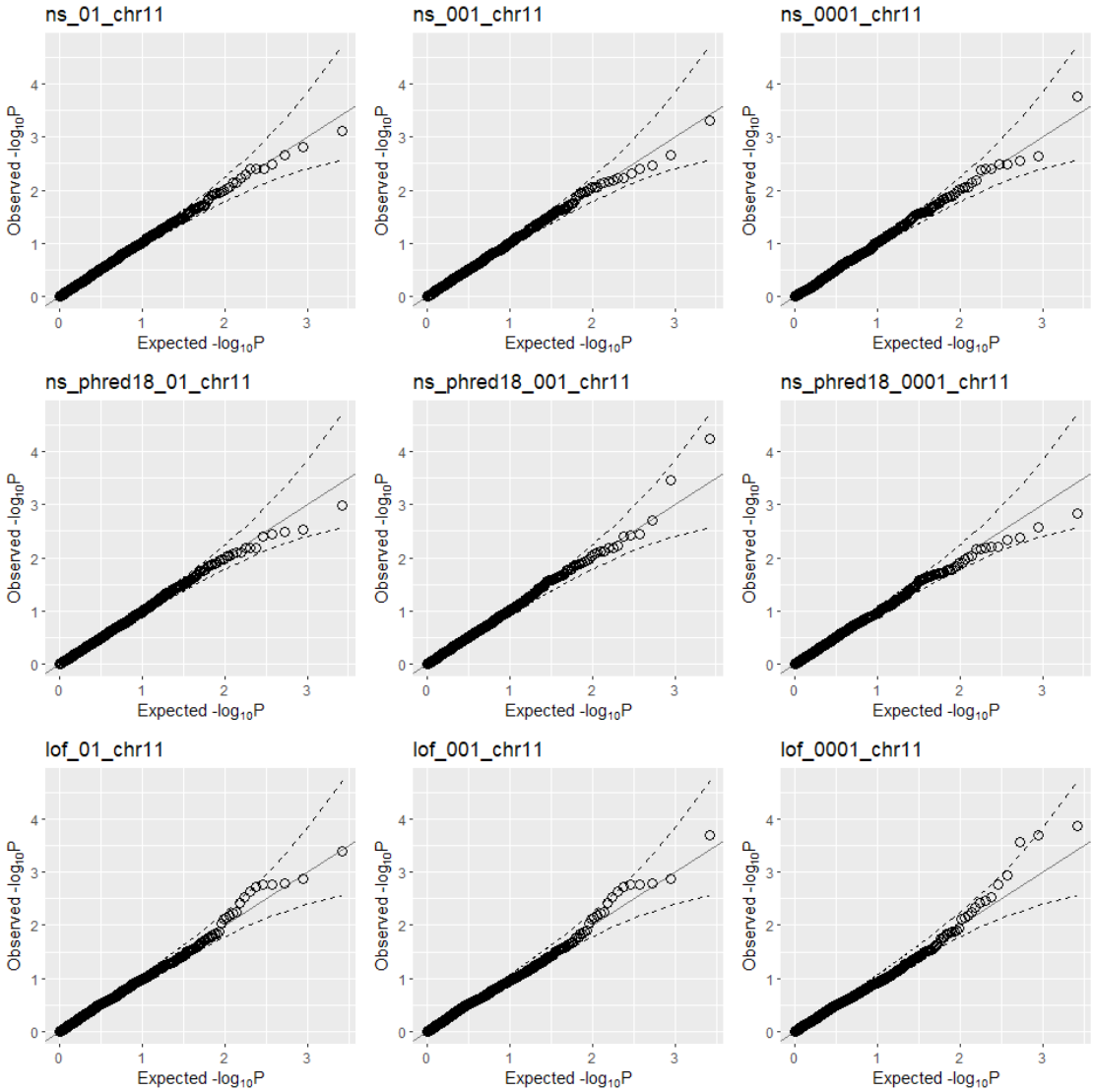
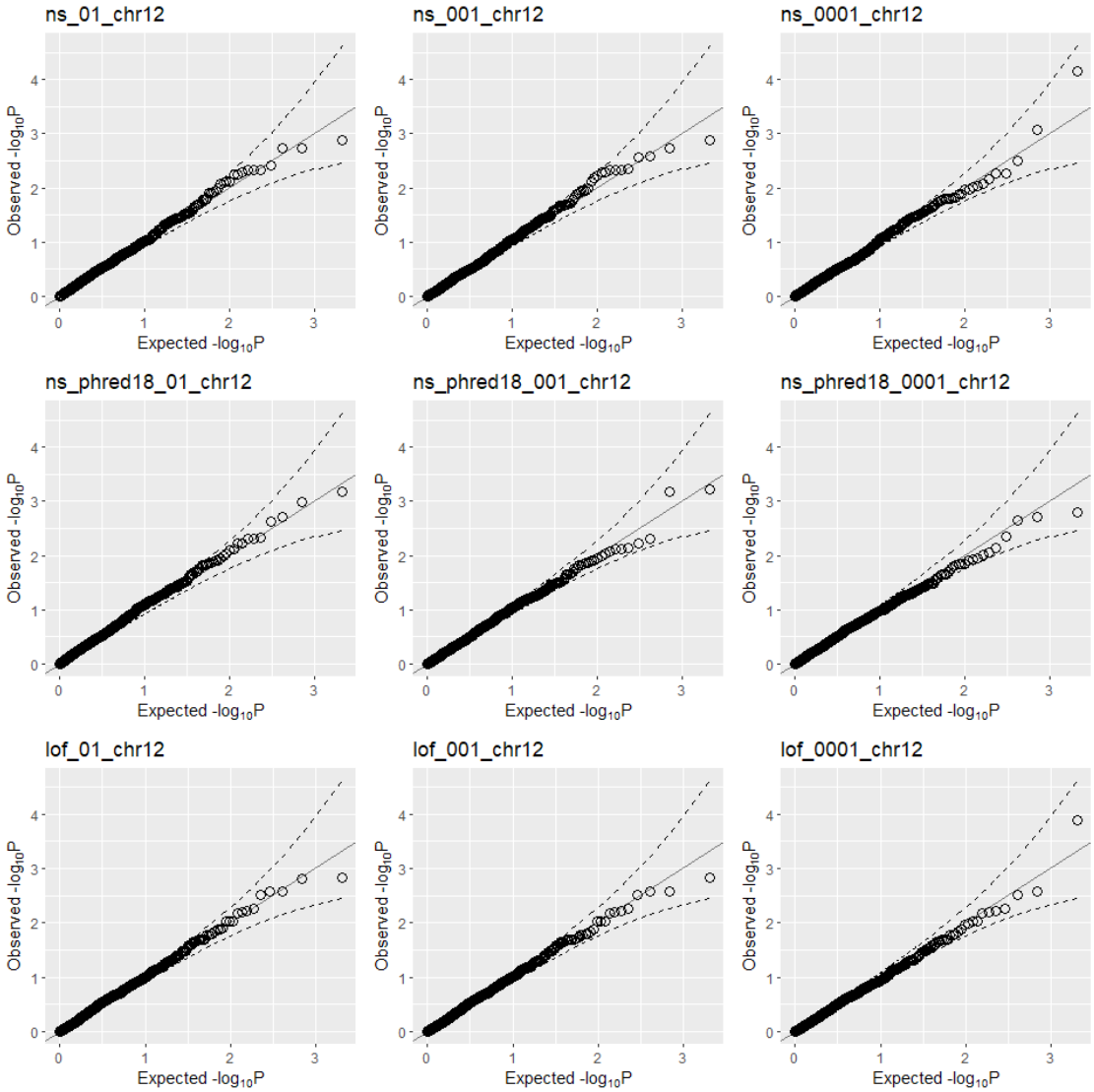
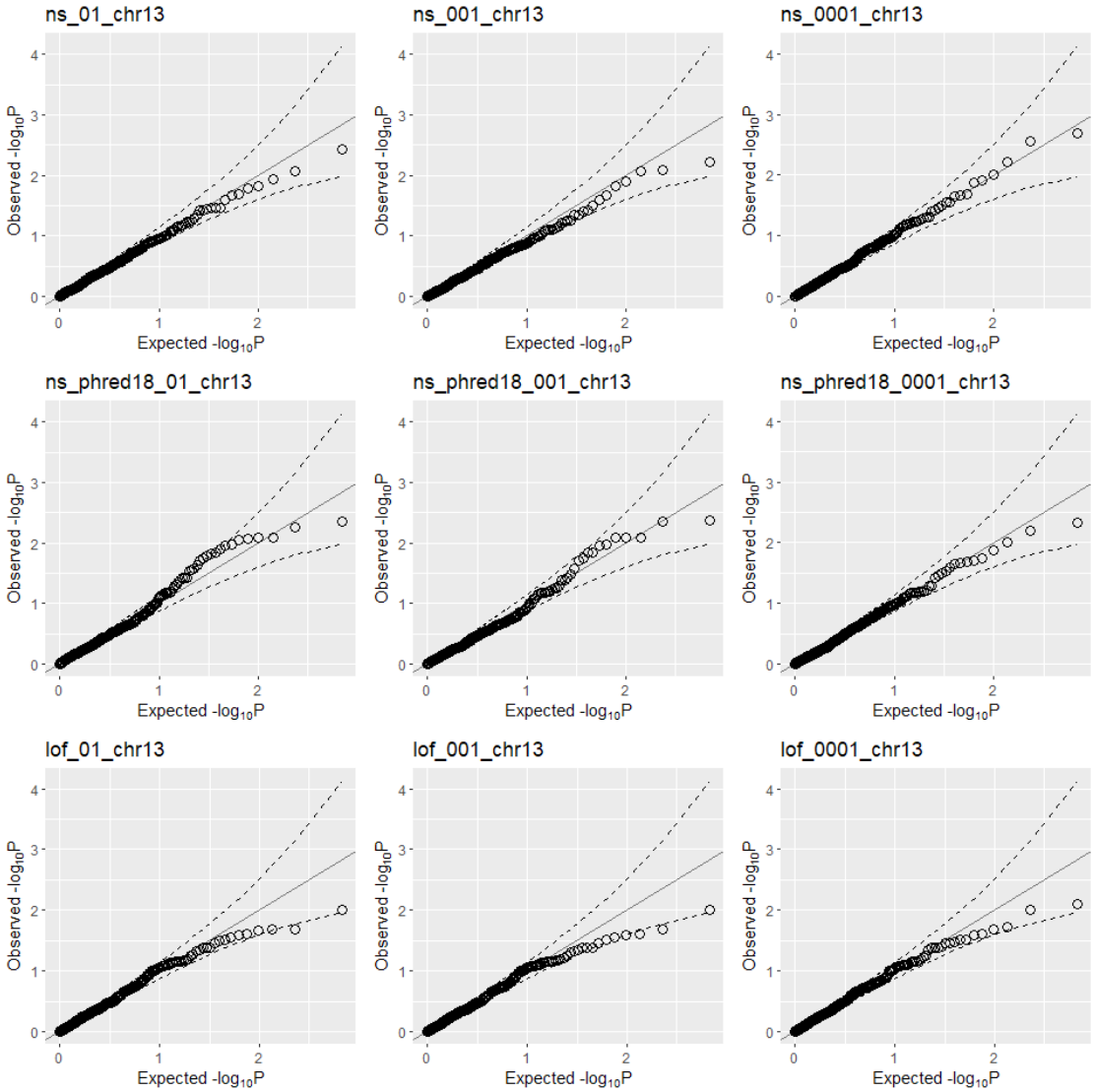
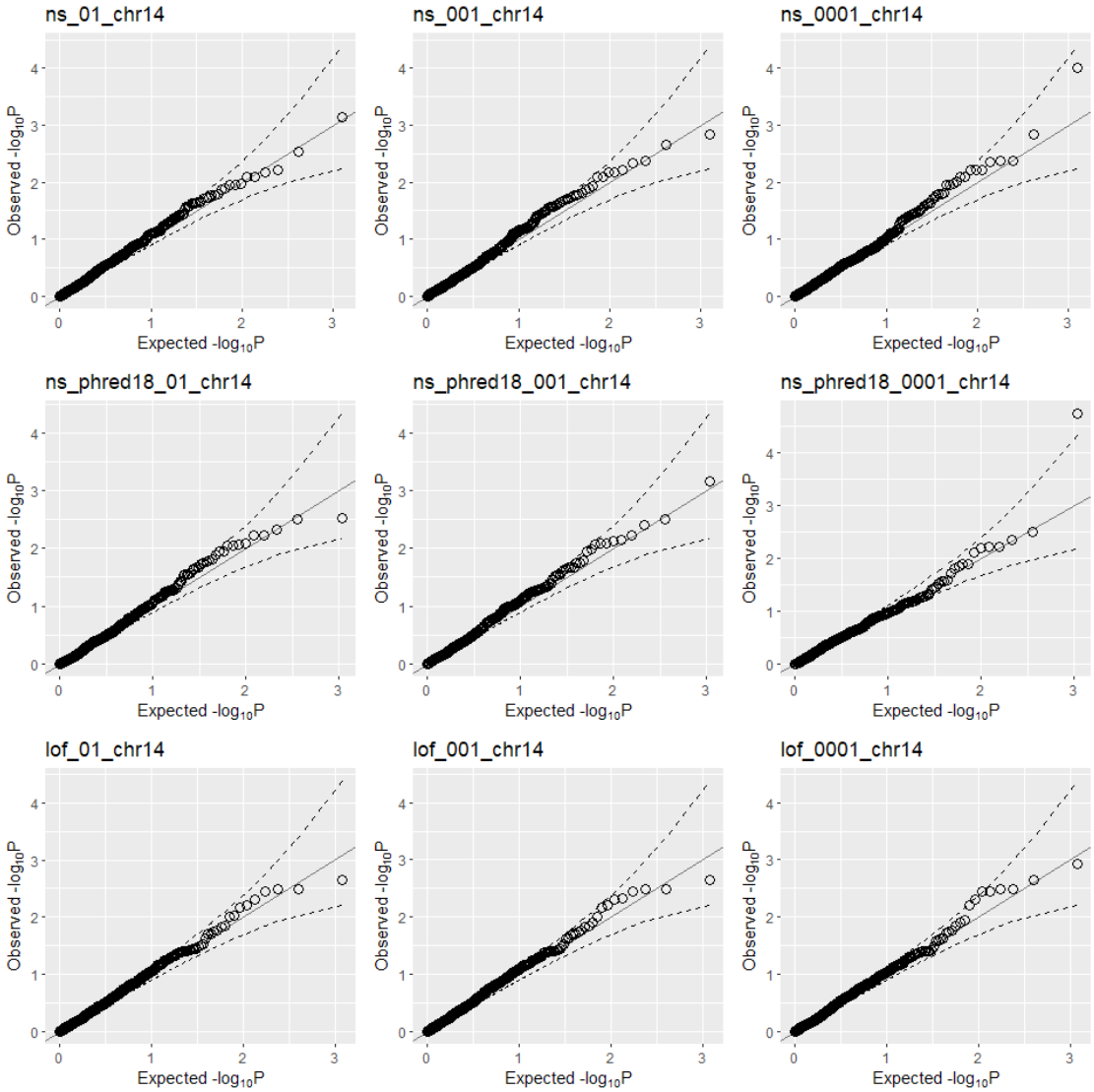
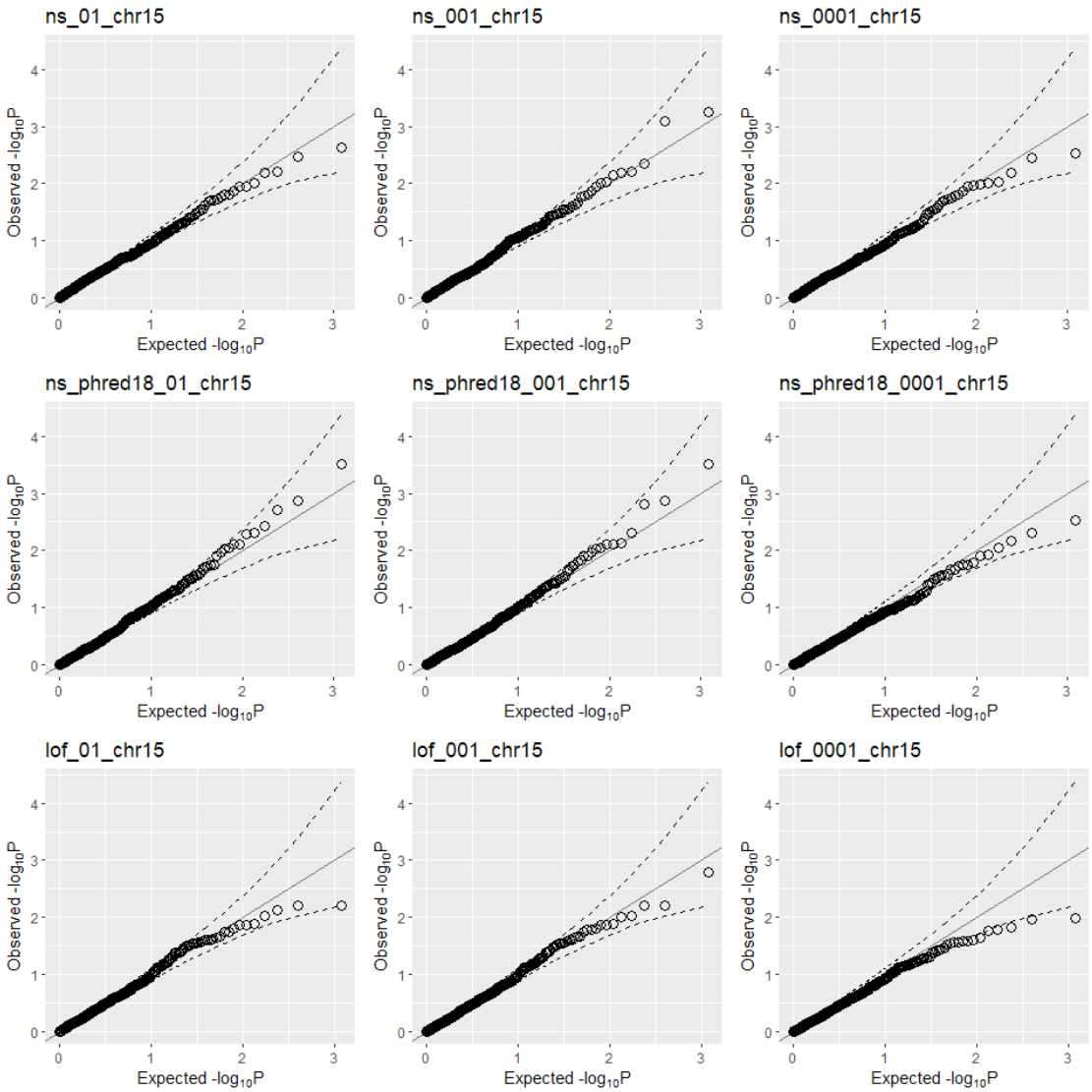
ns_001_chr10
ns_0001_chr10
ns_phred18_01_chr10
ns_phred18_001_chr10
ns_phred18_0001_chr10
lof_01_chr10
lof_001_chr10
lof_0001_chr10
Observed -log10P
Expected -log10P

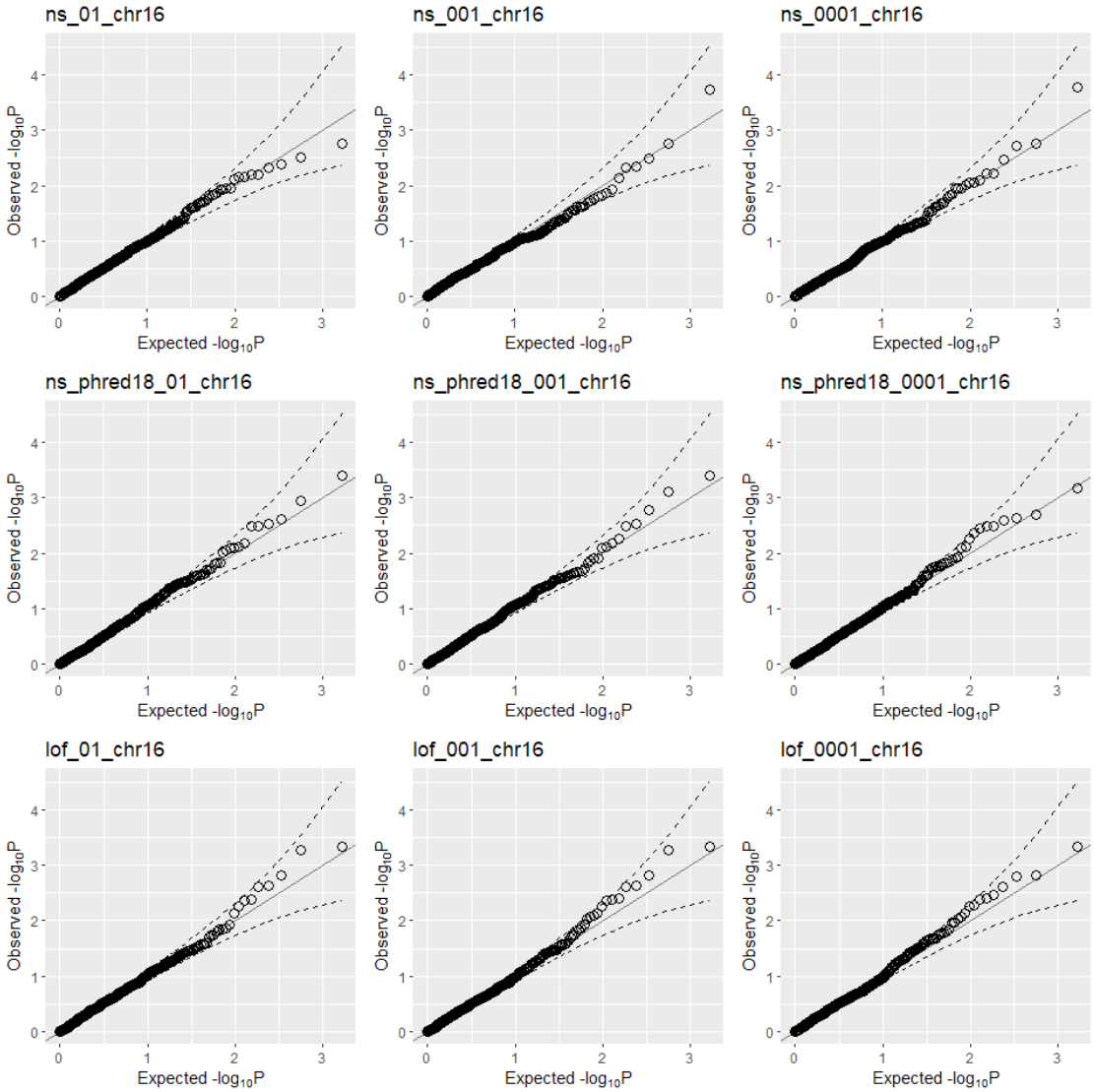

ns_01_chr11
ns_001_chr11
ns_0001_chr11
ns_phred18_01_chr11
ns_phred18_001_chr11
ns_phred18_0001_chr11
lof_01_chr11
lof_001_chr11
lof_0001_chr11
Observed -log10P
Expected -log10P
0
1
2
3
4

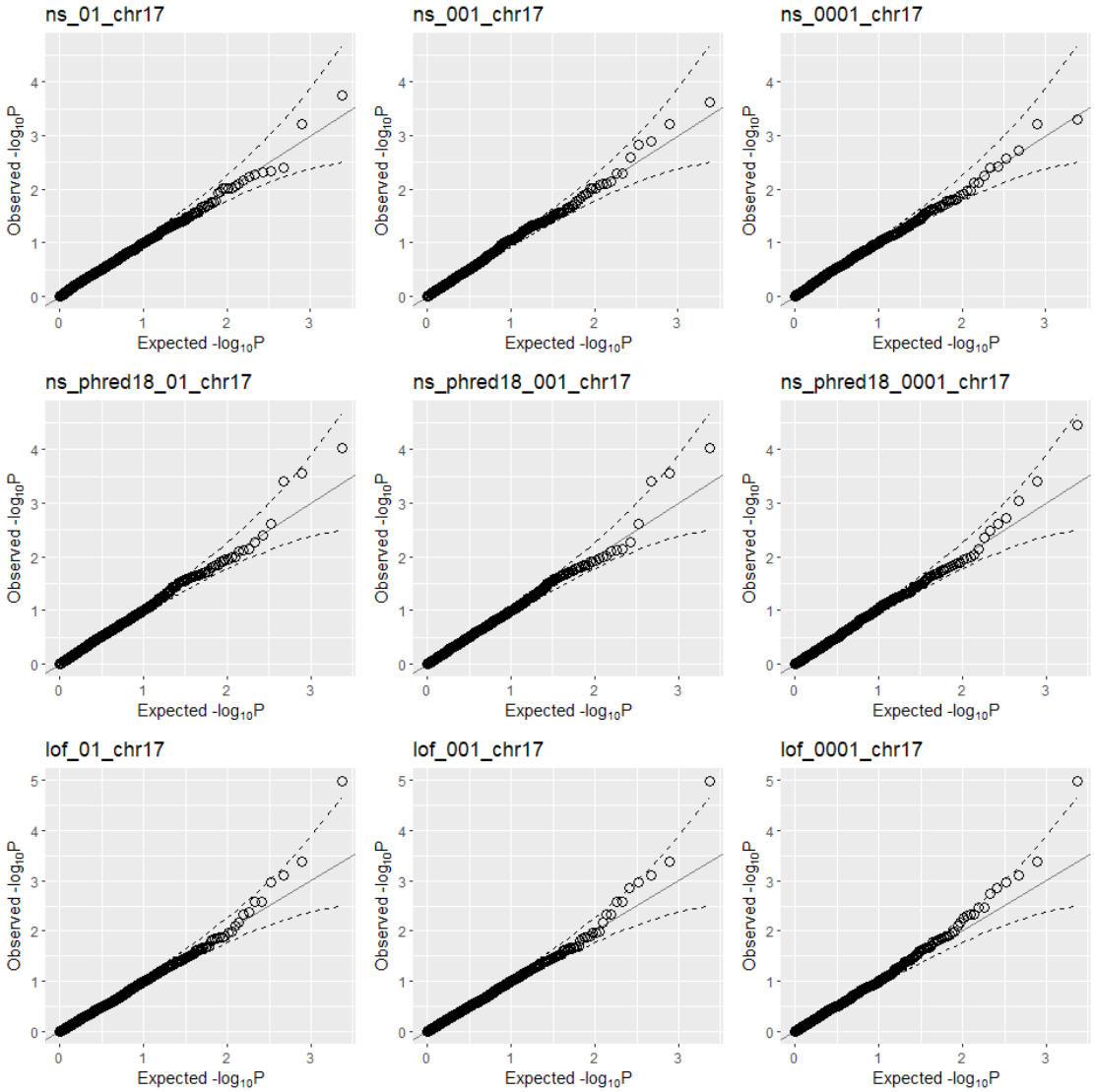

ns_01_chr12
ns_001_chr12
ns_0001_chr12
ns_phred18_01_chr12
ns_phred18_001_chr12
ns_phred18_0001_chr12
lof_01_chr12
lof_001_chr12
lof_0001_chr12
Observed -log10P
Expected -log10P
0
1
2
3
4

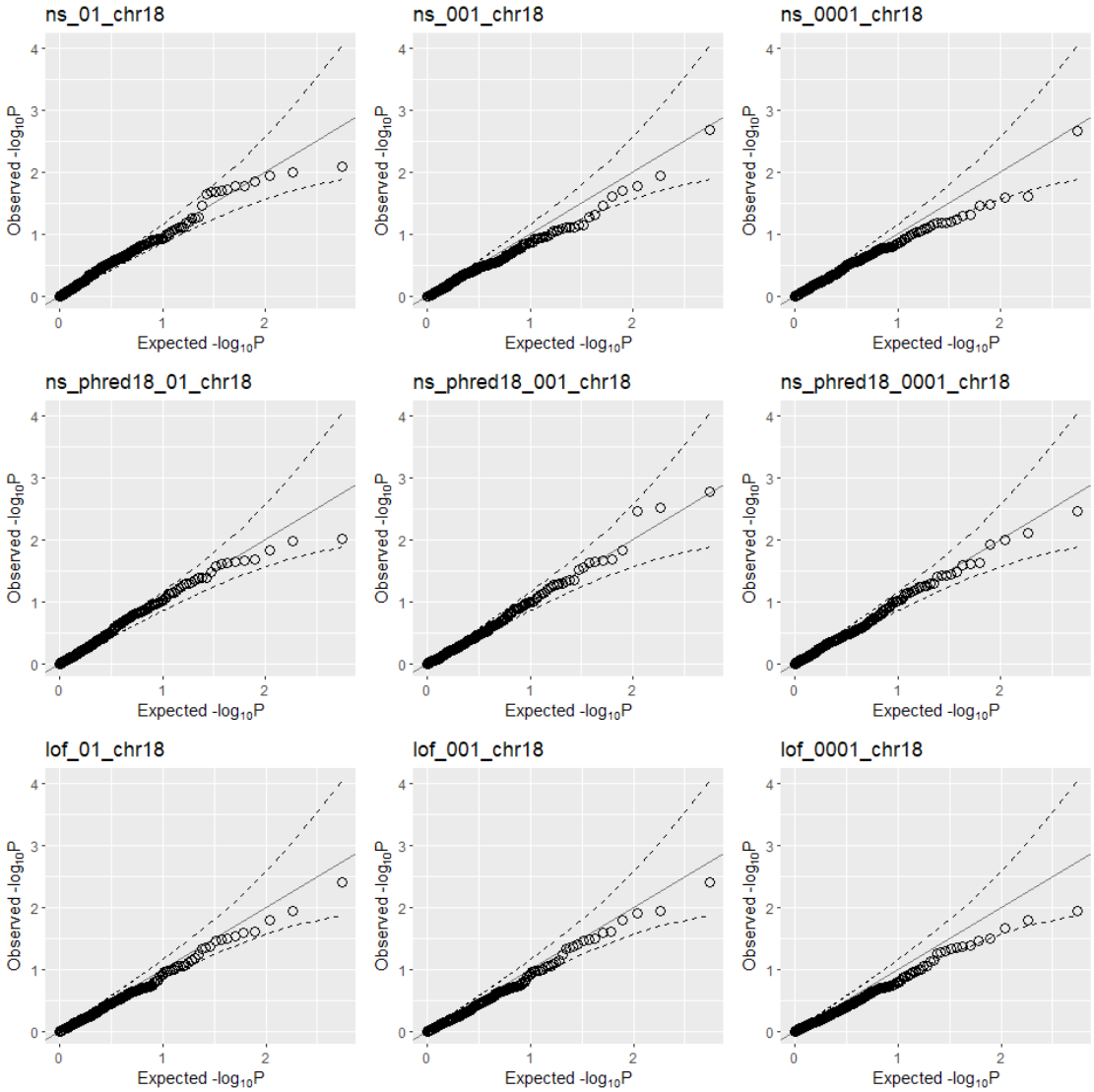

ns_01_chr13
ns_001_chr13
ns_0001_chr13
ns_phred18_01_chr13
ns_phred18_001_chr13
ns_phred18_0001_chr13
lof_01_chr13
lof_001_chr13
lof_0001_chr13
Observed -log10P
Expected -log10P
0
1
2
3
4

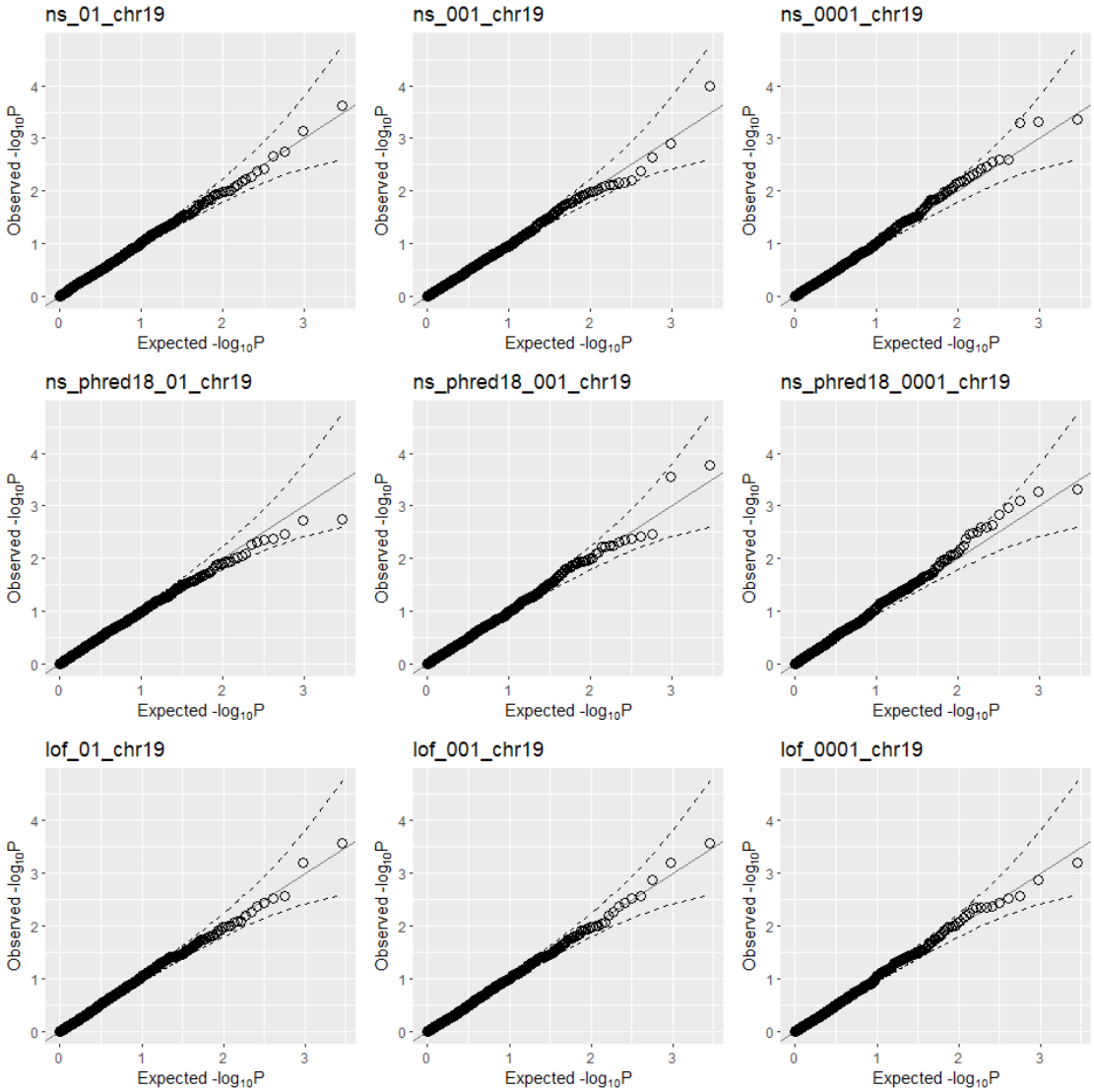

ns_01_chr14
ns_001_chr14
ns_0001_chr14
ns_phred18_01_chr14
ns_phred18_001_chr14
ns_phred18_0001_chr14
lof_01_chr14
lof_001_chr14
lof_0001_chr14
Observed -log10P
Expected -log10P
0
1
2
3
4

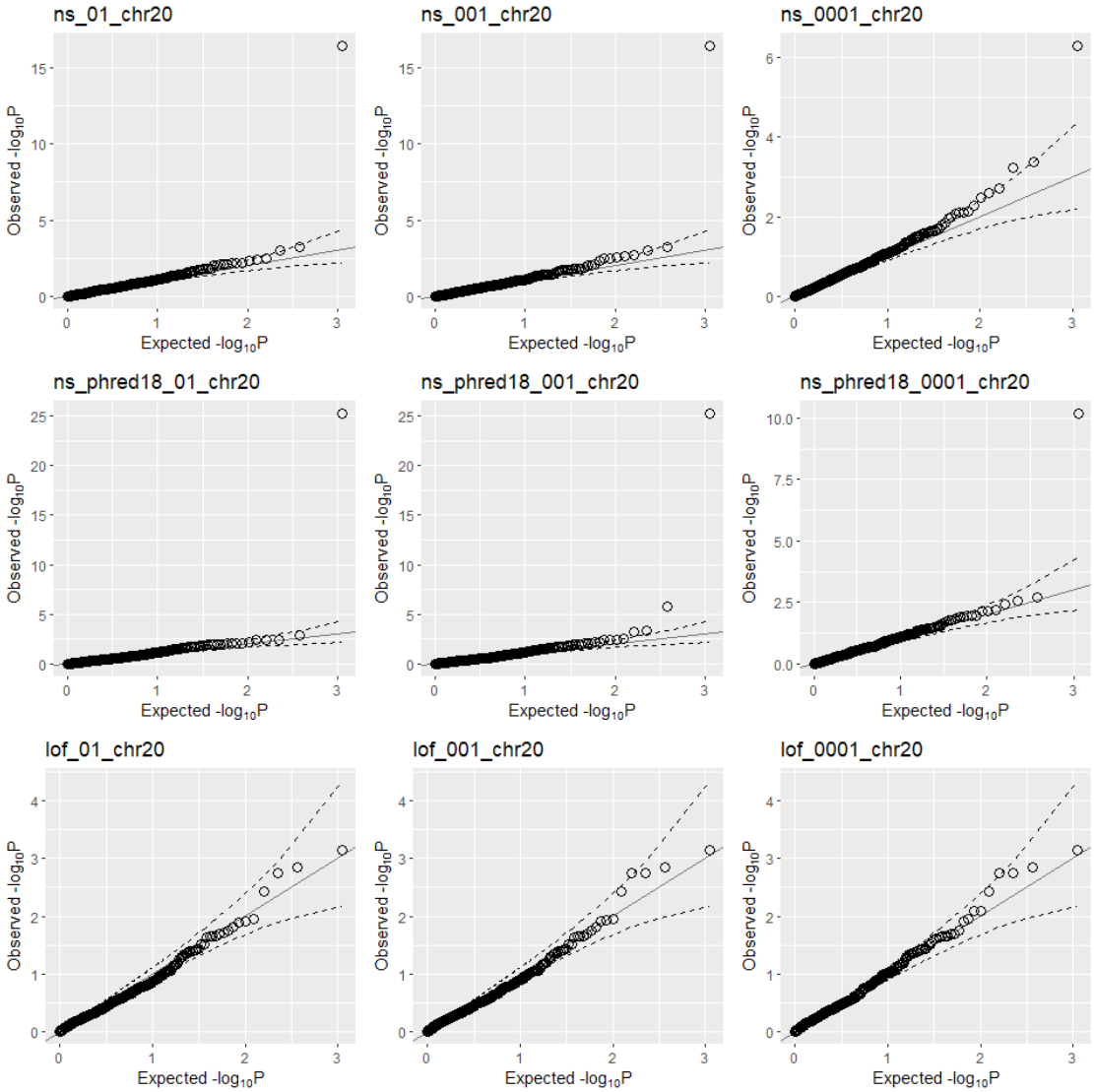

ns_01_chr15
ns_001_chr15
ns_0001_chr15
ns_phred18_01_chr15
ns_phred18_001_chr15
ns_phred18_0001_chr15
lof_01_chr15
lof_001_chr15
lof_0001_chr15
Observed -log10P
Expected -log10P
0
1
2
3
4

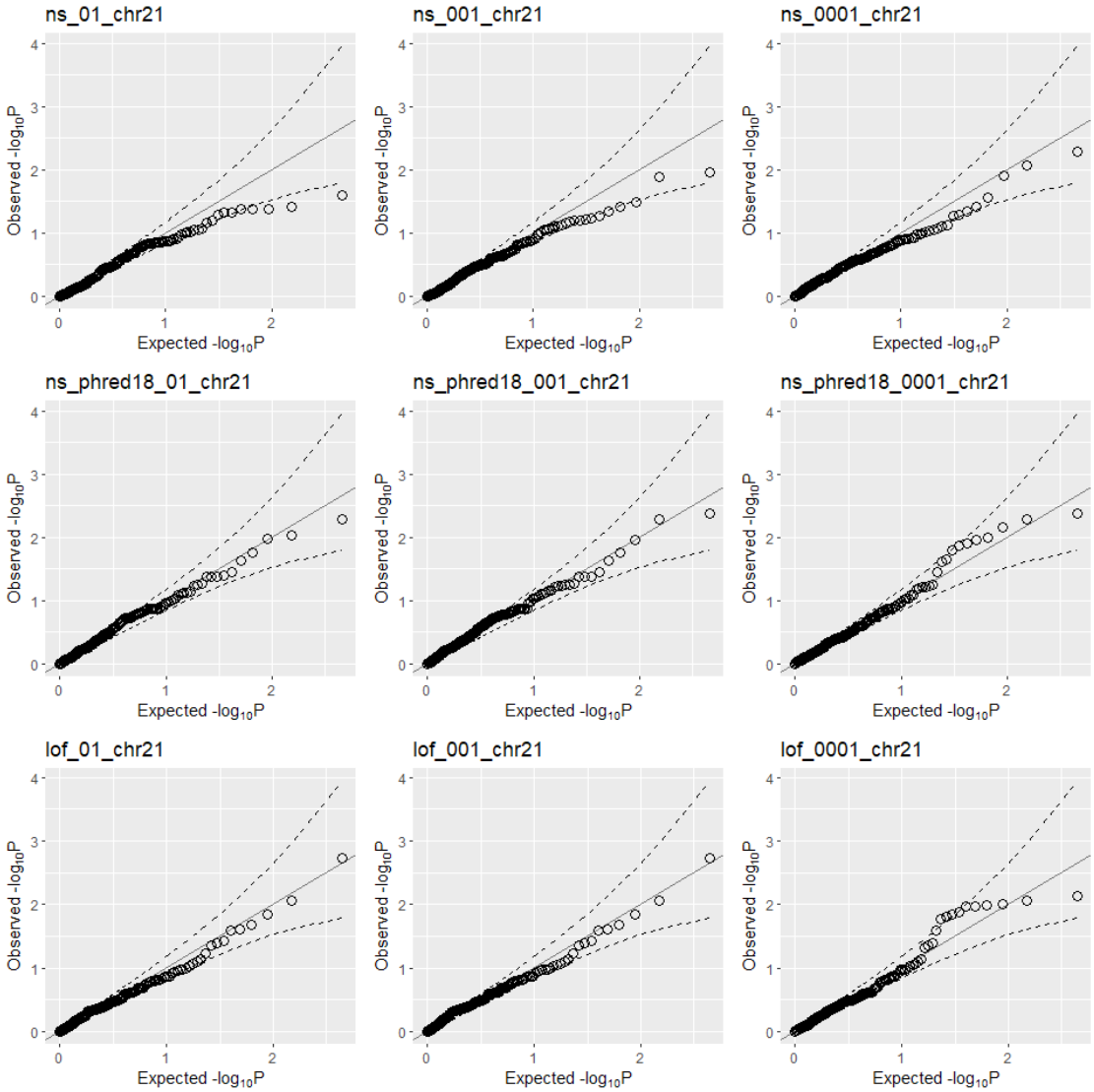

ns_01_chr16
ns_001_chr16
ns_0001_chr16
ns_phred18_01_chr16
ns_phred18_001_chr16
ns_phred18_0001_chr16
lof_01_chr16
lof_001_chr16
lof_0001_chr16
Observed -log10P
Expected -log10P
0
1
2
3
4

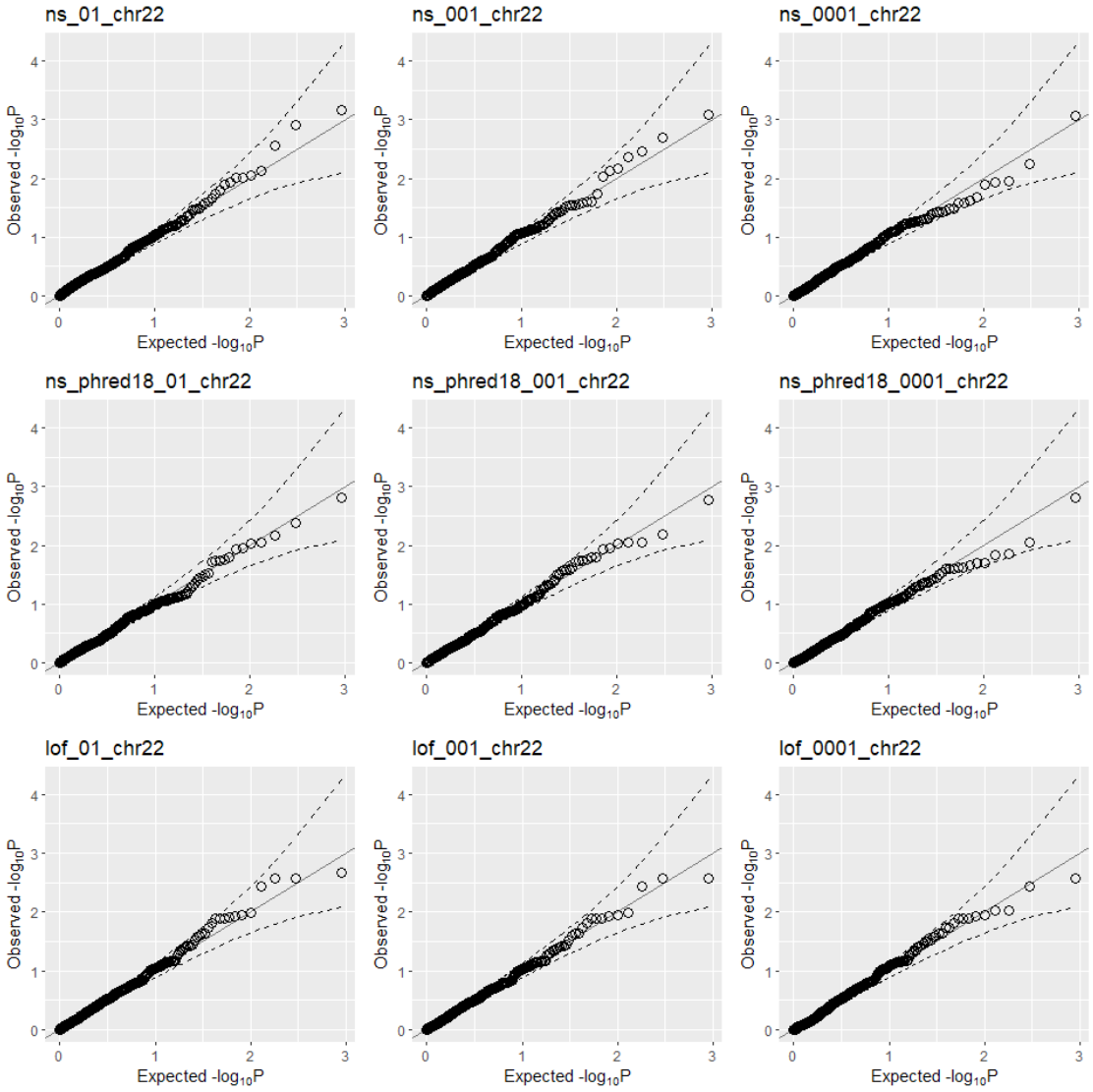

ns_01_chr17
ns_001_chr17
ns_0001_chr17
ns_phred18_01_chr17
ns_phred18_001_chr17
ns_phred18_0001_chr17
lof_01_chr17
lof_001_chr17
lof_0001_chr17
Observed -log10P
Expected -log10P


ns_01_chr18
ns_001_chr18
ns_0001_chr18
ns_phred18_01_chr18
ns_phred18_001_chr18
ns_phred18_0001_chr18
lof_01_chr18
lof_001_chr18
lof_0001_chr18
Observed -log10P
Expected -log10P
0
1
2
3
4


ns_01_chr19
ns_001_chr19
ns_0001_chr19
ns_phred18_01_chr19
ns_phred18_001_chr19
ns_phred18_0001_chr19
lof_01_chr19
lof_001_chr19
lof_0001_chr19
Observed -log10P
Expected -log10P
0
1
2
3
4

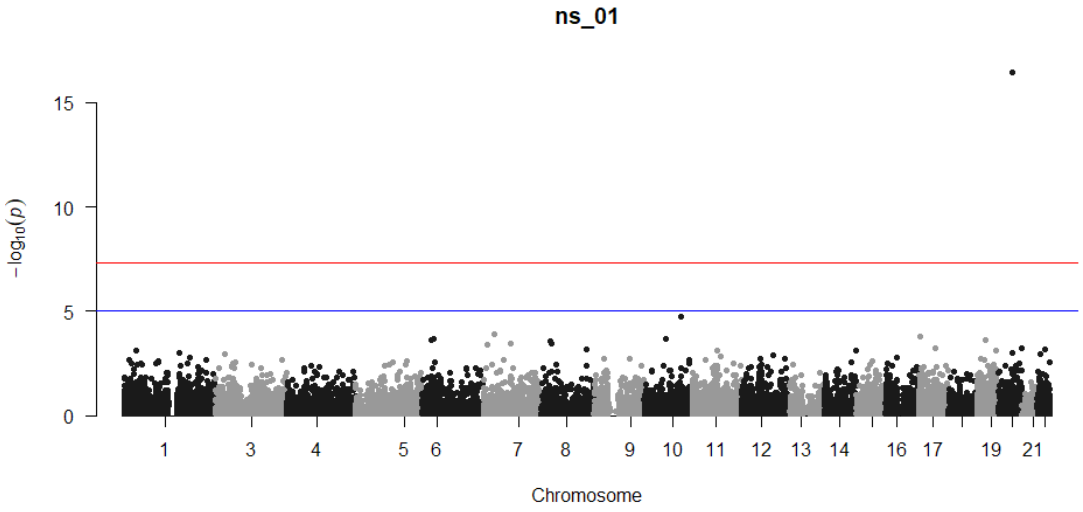

ns_01_chr20
ns_001_chr20
ns_0001_chr20
ns_phred18_01_chr20
ns_phred18_001_chr20
ns_phred18_0001_chr20
lof_01_chr20
lof_001_chr20
lof_0001_chr20
Observed -log10P
Expected -log10P

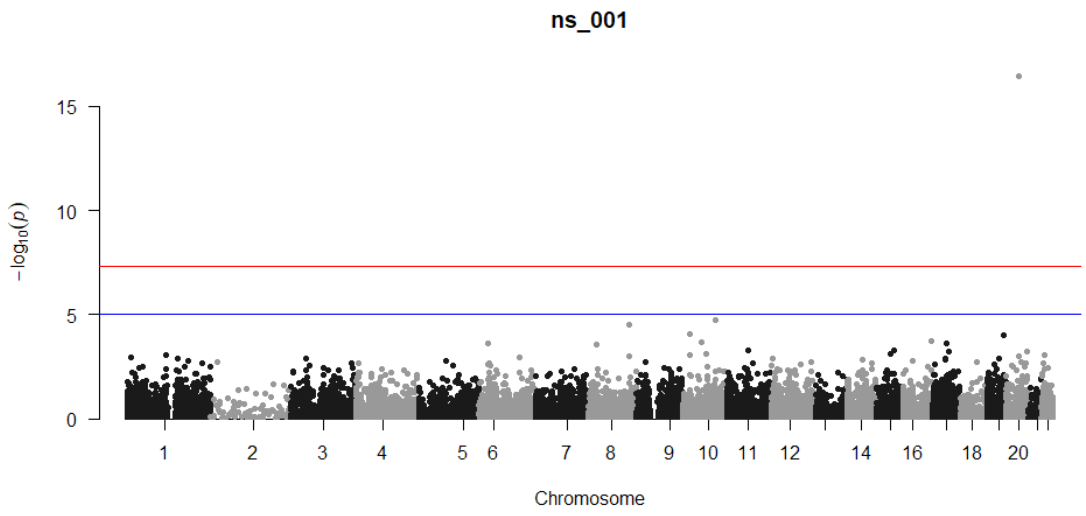

ns_01_chr21
ns_001_chr21
ns_0001_chr21
ns_phred18_01_chr21
ns_phred18_001_chr21
ns_phred18_0001_chr21
lof_01_chr21
lof_001_chr21
lof_0001_chr21
Observed -log10P
Expected -log10P
0
1
2
3
4

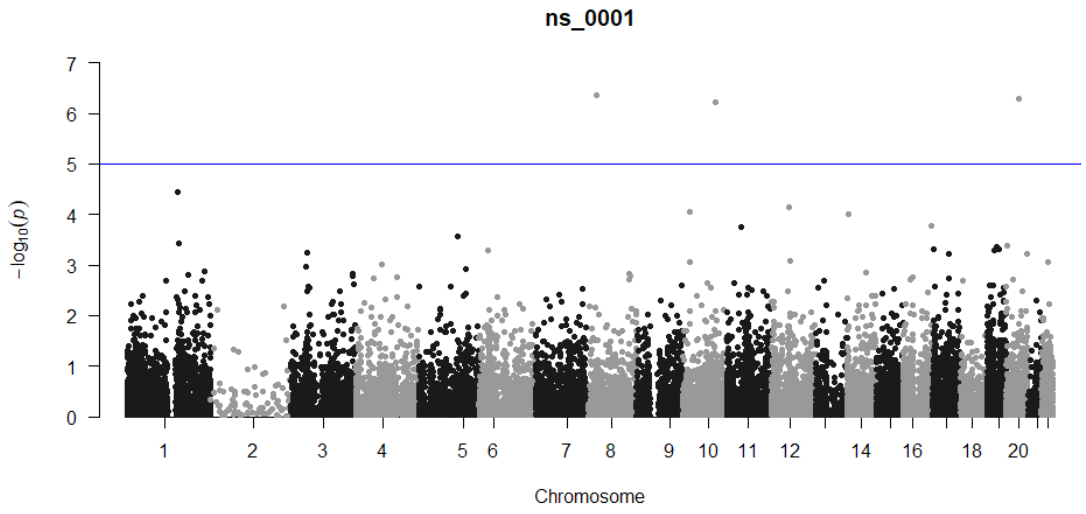


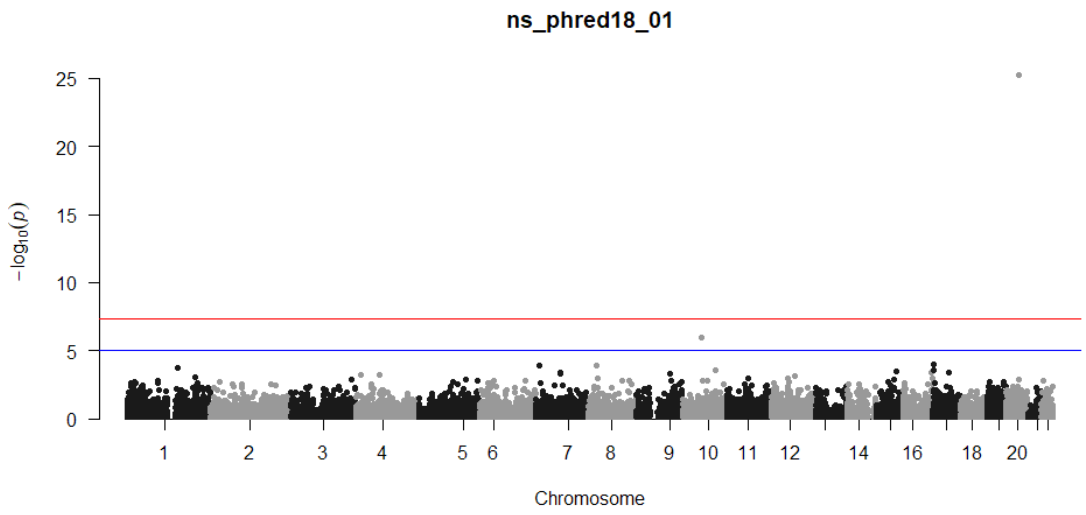
##

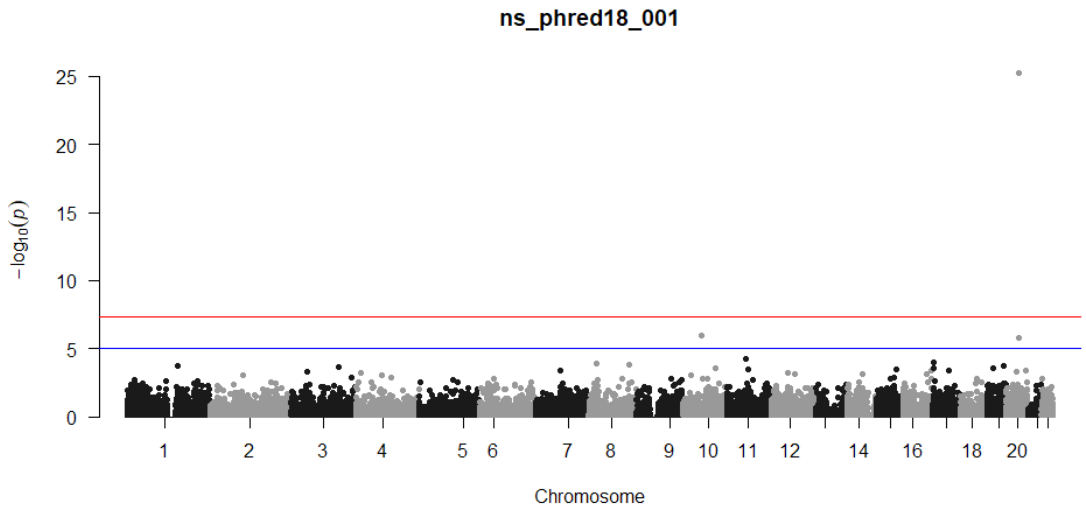
Manhattan Plots

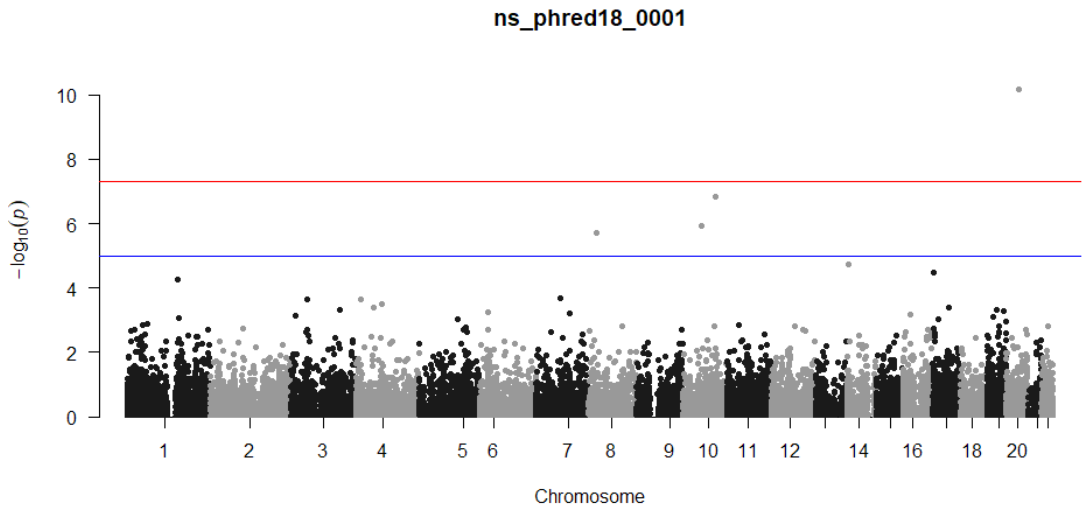


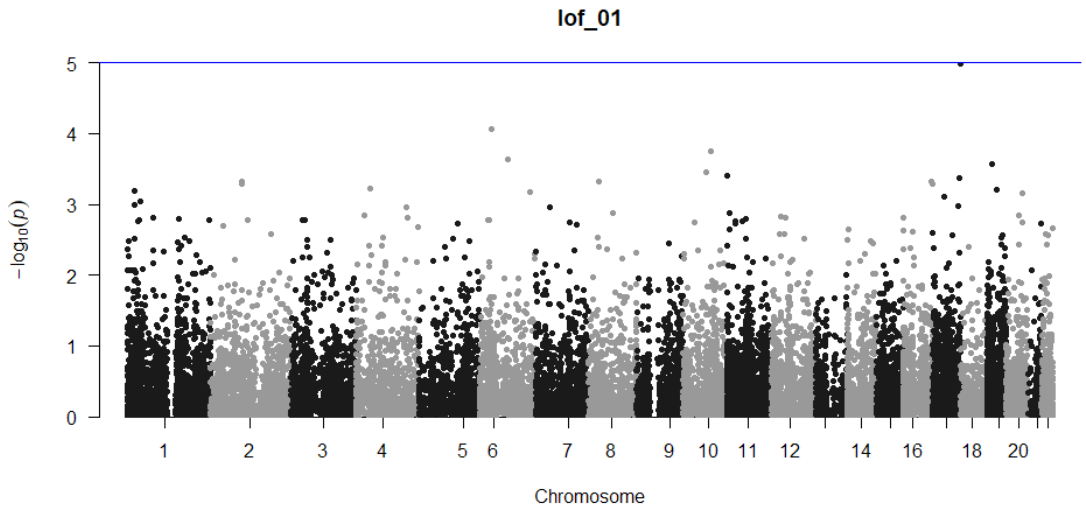

ns_001
15
10
5
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome

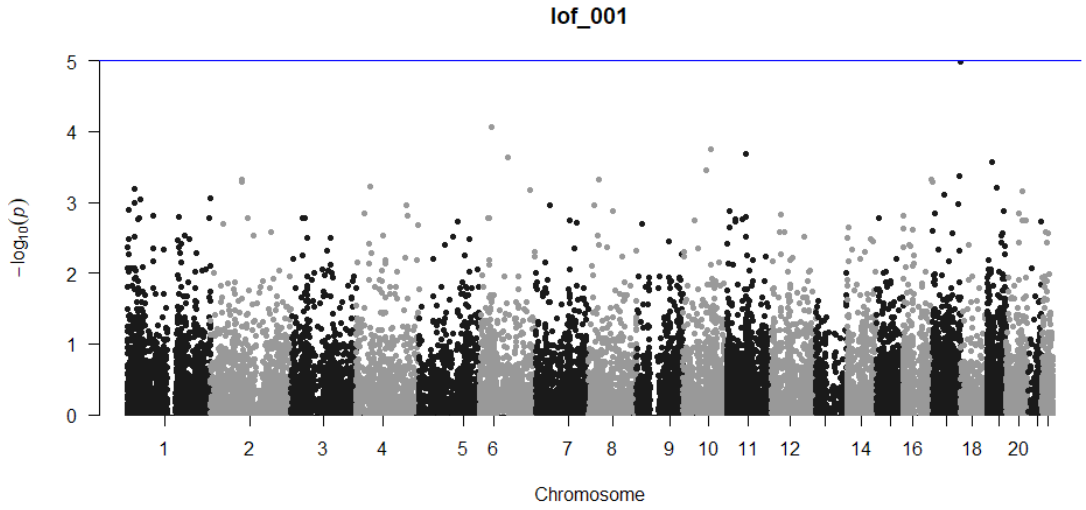

ns_0001
7
6
5
4
3
2
1
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome

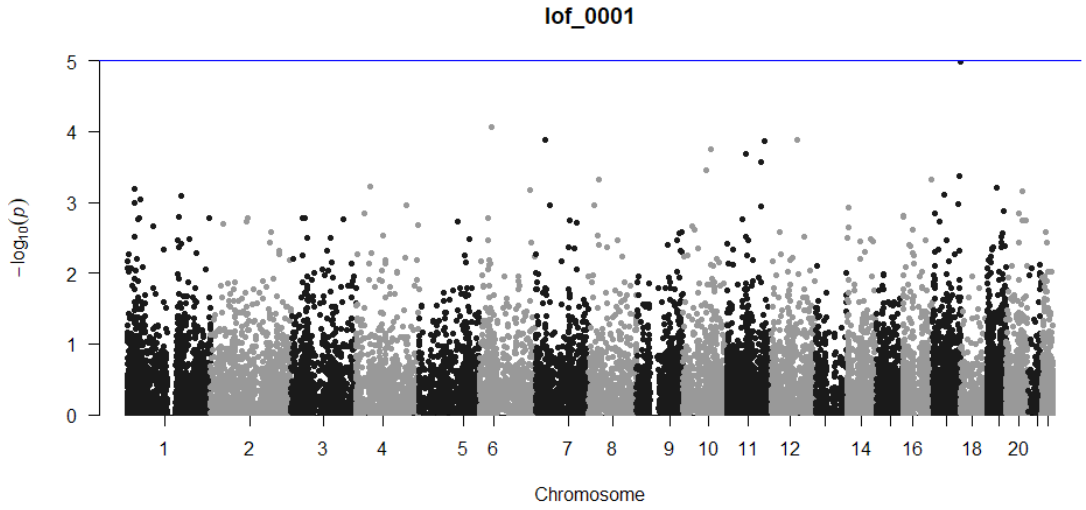

ns_phred18_01
25
20
15
10
5
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome


ns_phred18_001
25
20
15
10
5
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome


ns_phred18_0001
10
8
6
4
2
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome


lof_01
5
4
3
2
1
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome


lof_001
5
4
3
2
1
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome


lof_0001
5
4
3
2
1
0
−log10(p)
1
2
3
4
5
6
7
8
9
10
11
12
14
16
18
20
Chromosome