

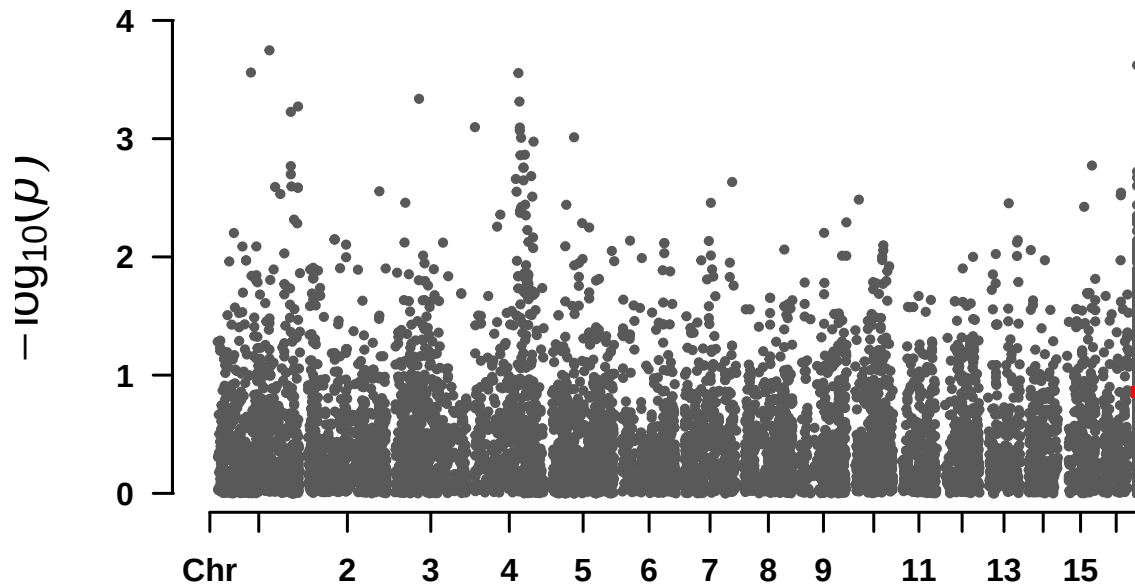
GWAS on Macauba

#Multiple trait GWAS figures

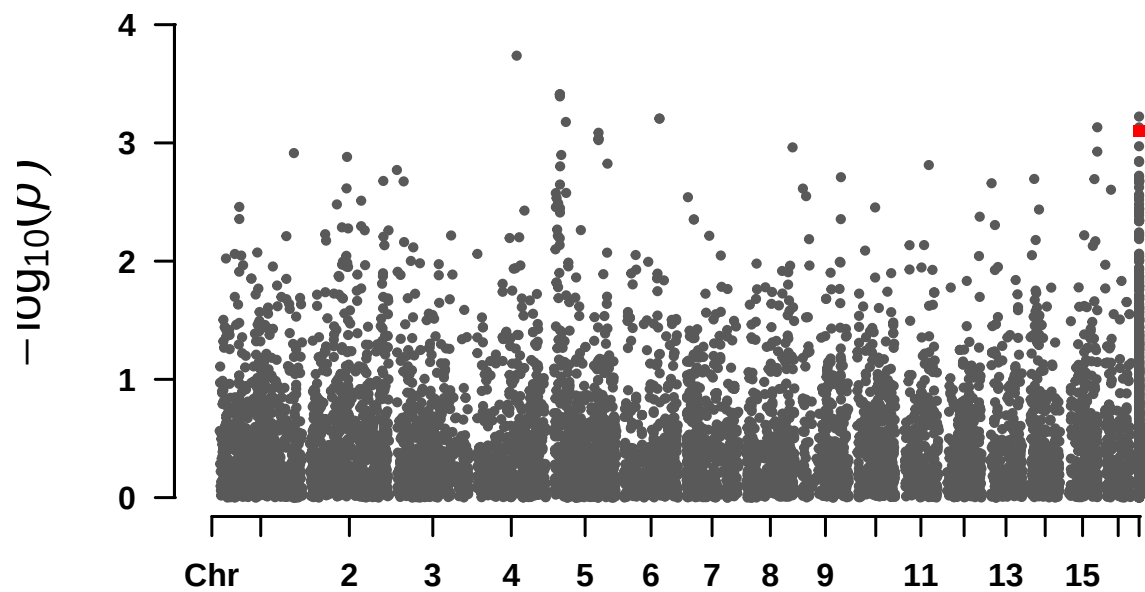
GLM Oil palm genotypic dataset

The red symbols on the Manhattan plots below represent the SNP detected as significant using the multivariate stepwise approach (see methods for more information).

Rectangular Manhattan plotting H.

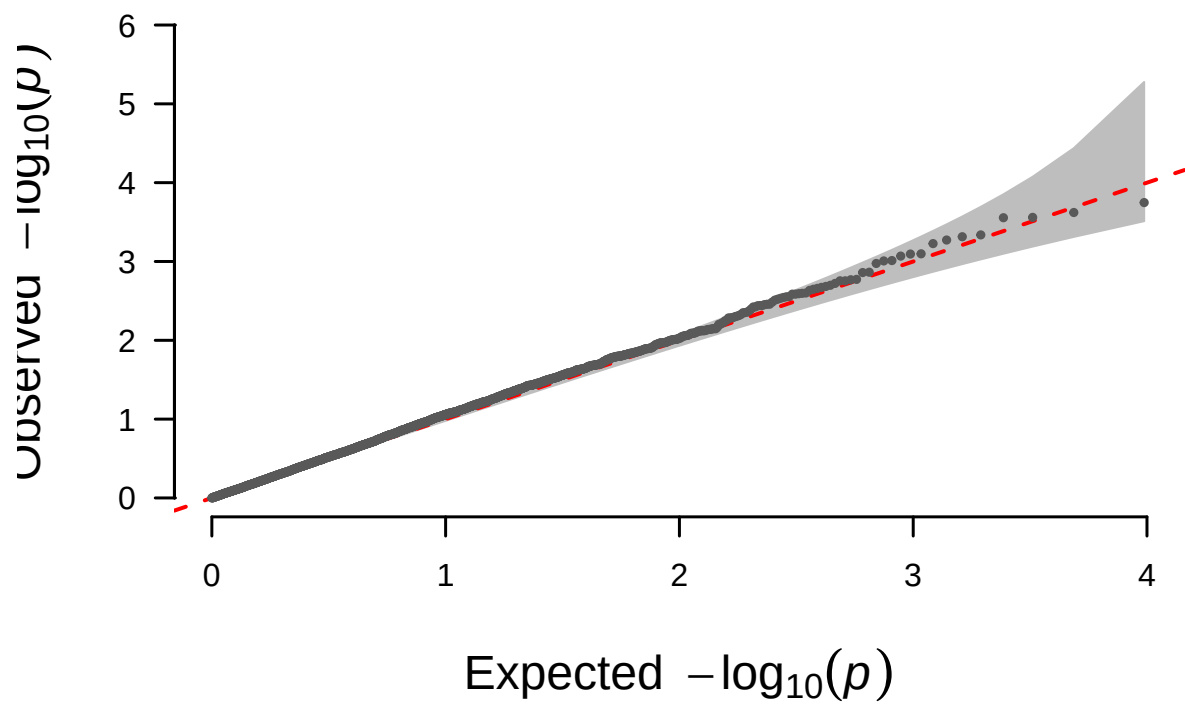


Rectangular Manhattan plotting EFM.



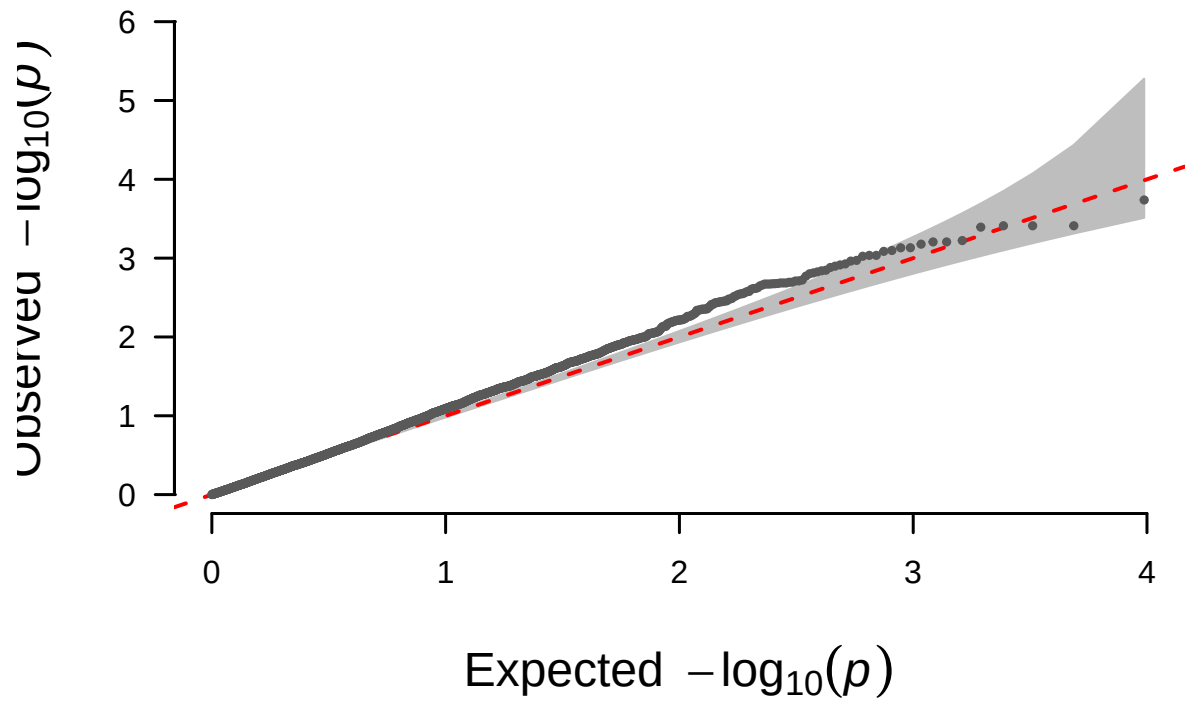
Q-Q plotting H.

H



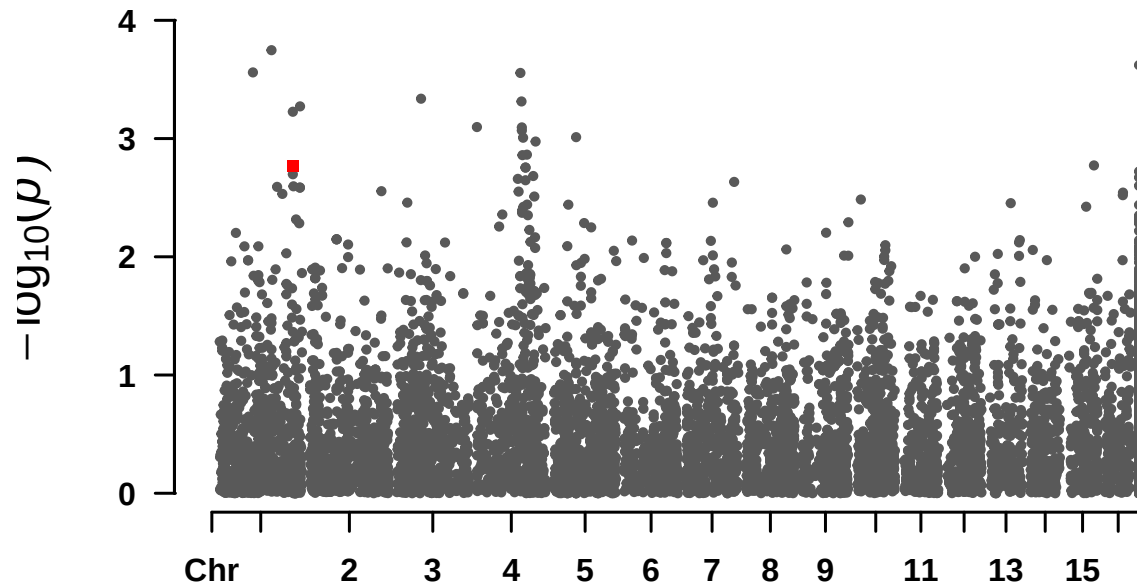
Q-Q plotting EFM.

EFM

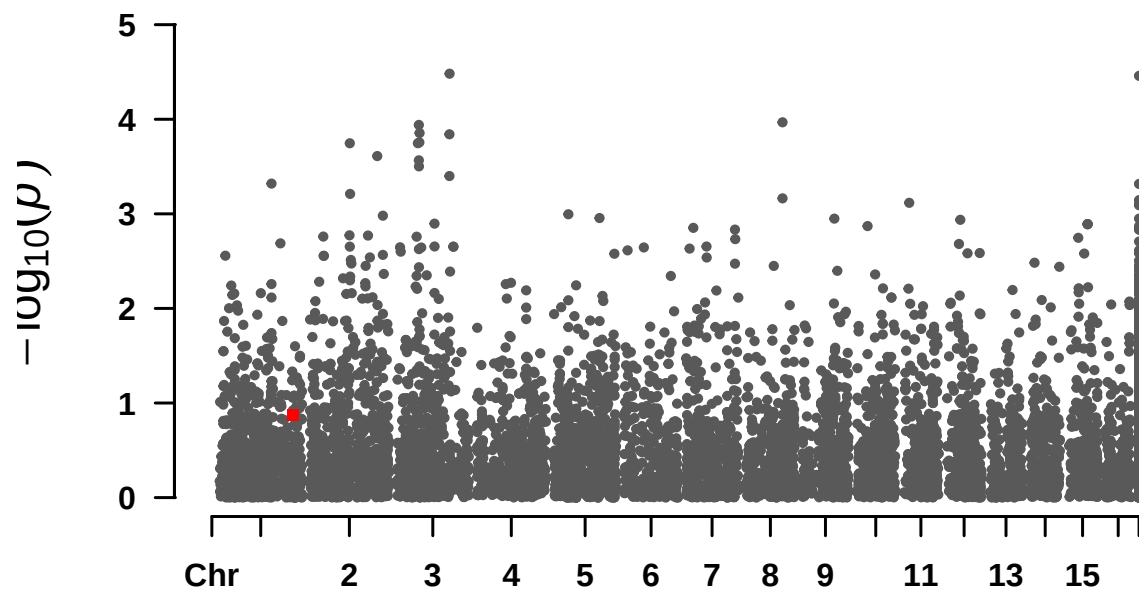


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##
##
## [1] "=====
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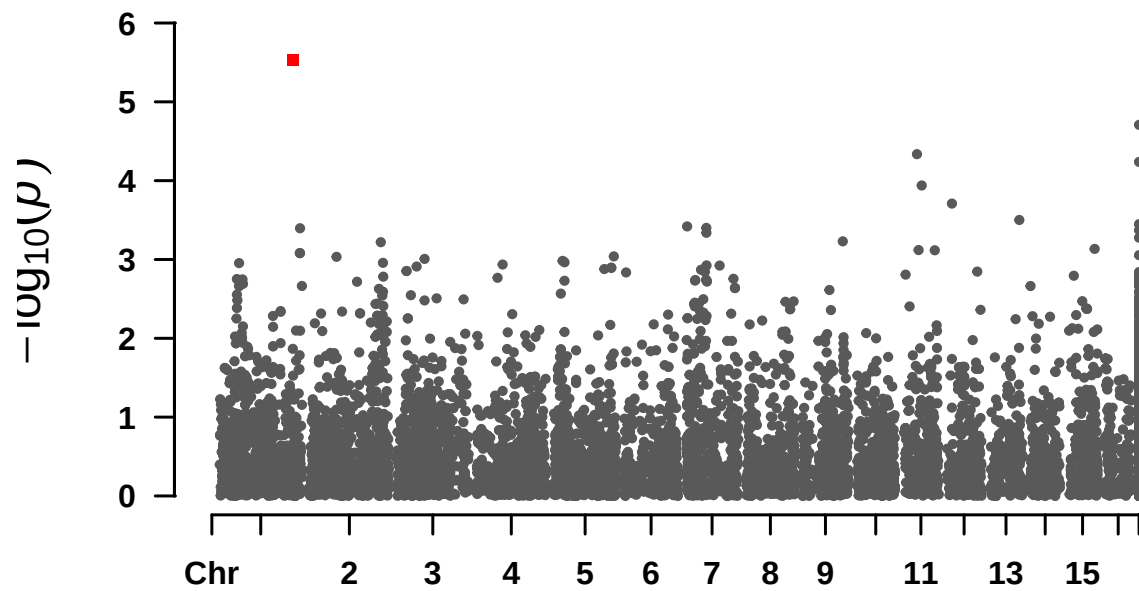
```
## Rectangular Manhattan plotting H.
```



```
## Rectangular Manhattan plotting DBH.
```

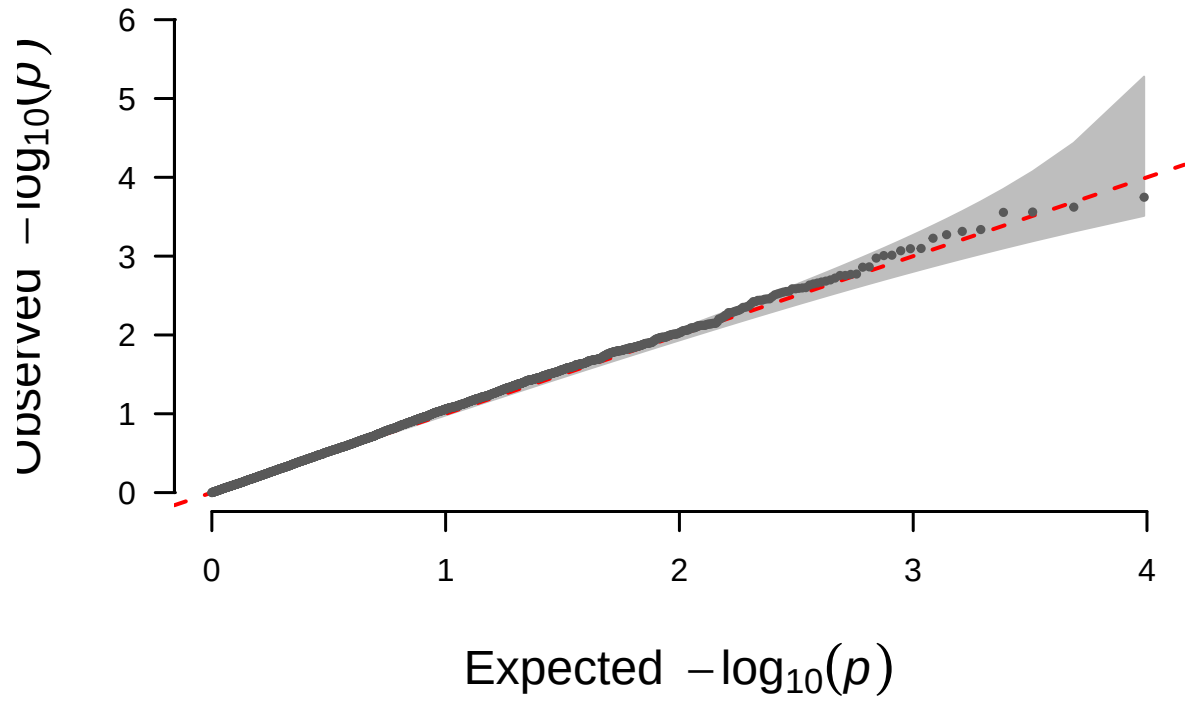


Rectangular Manhattan plotting NW.



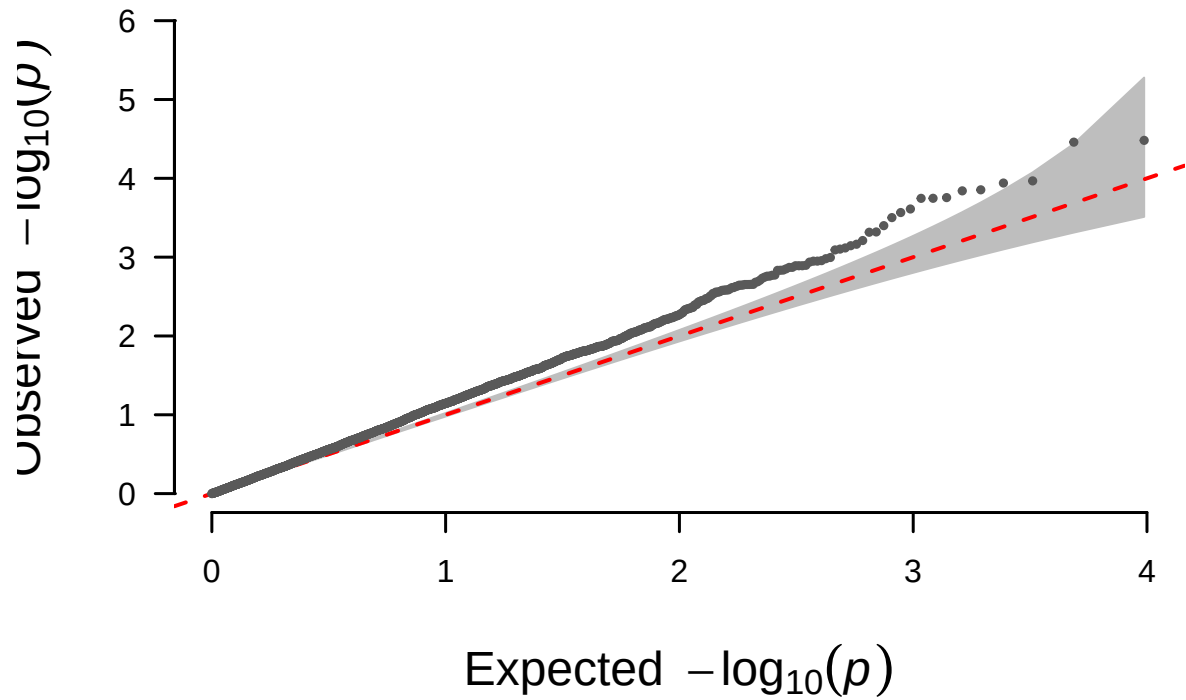
Q-Q plotting H.

H



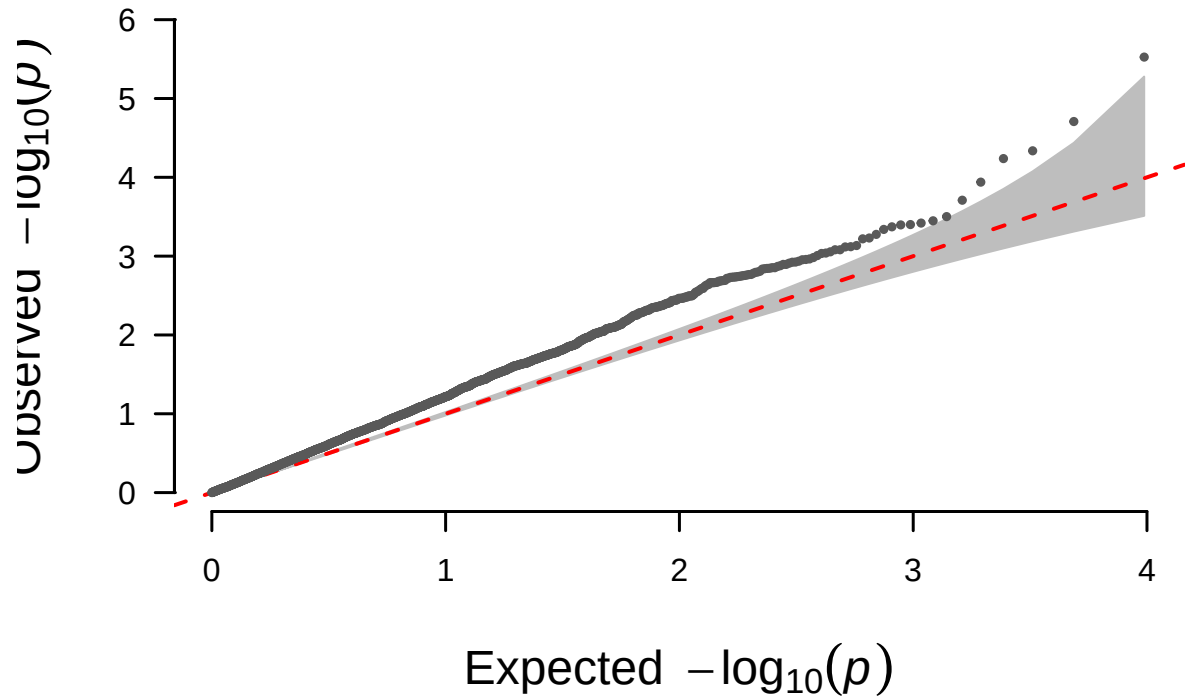
Q-Q plotting DBH.

DBH

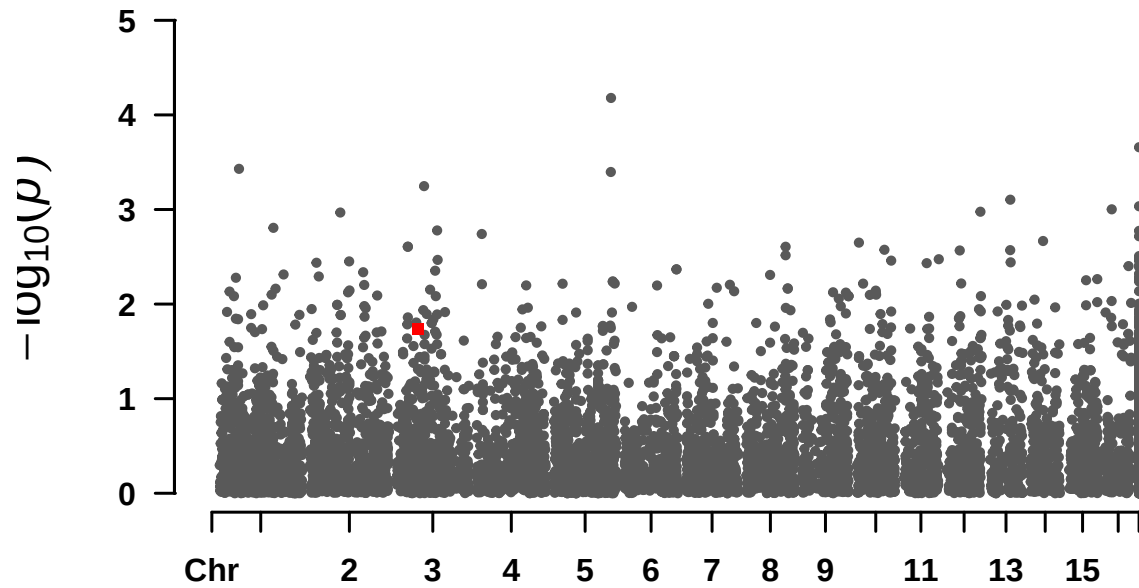


Q-Q plotting NW.

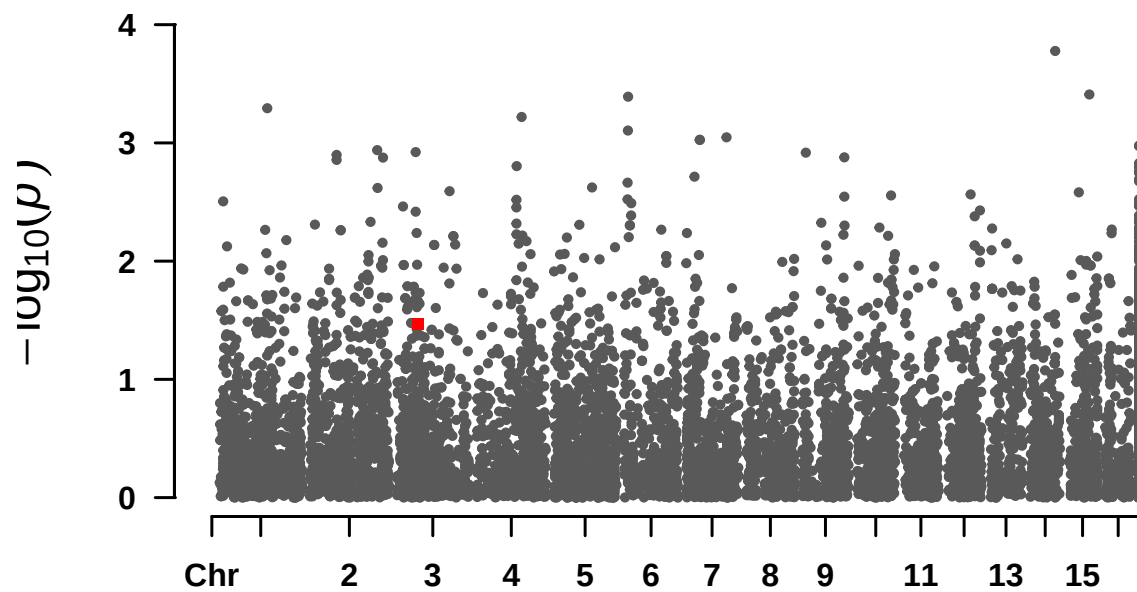
NW



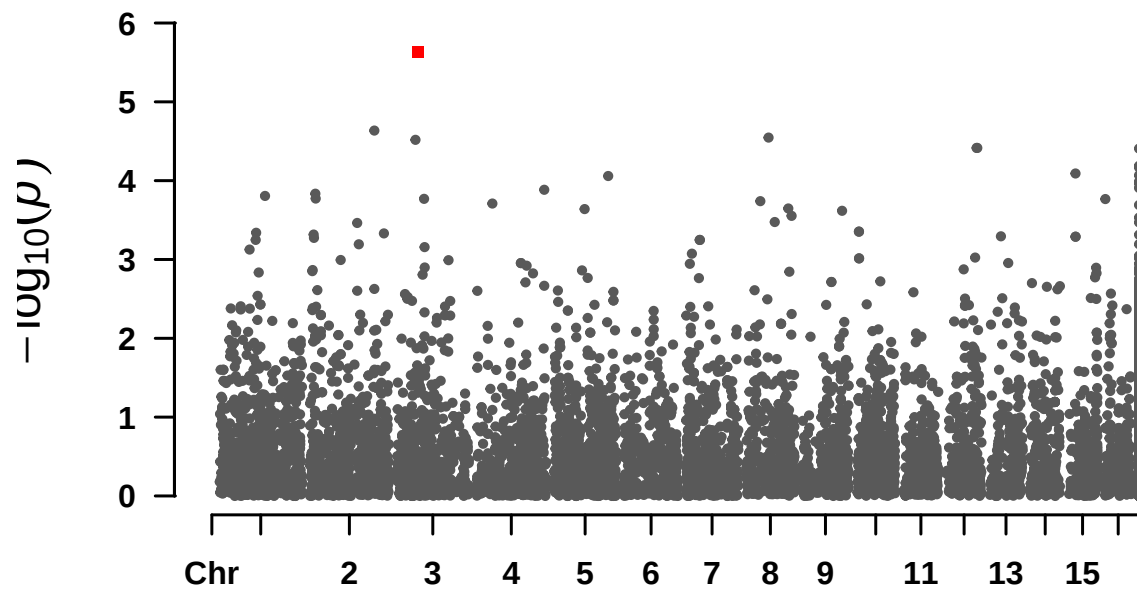
```
##
##
## [1] "=====
## Rectangular Manhattan plotting LL.
```



```
## Rectangular Manhattan plotting LN.
```

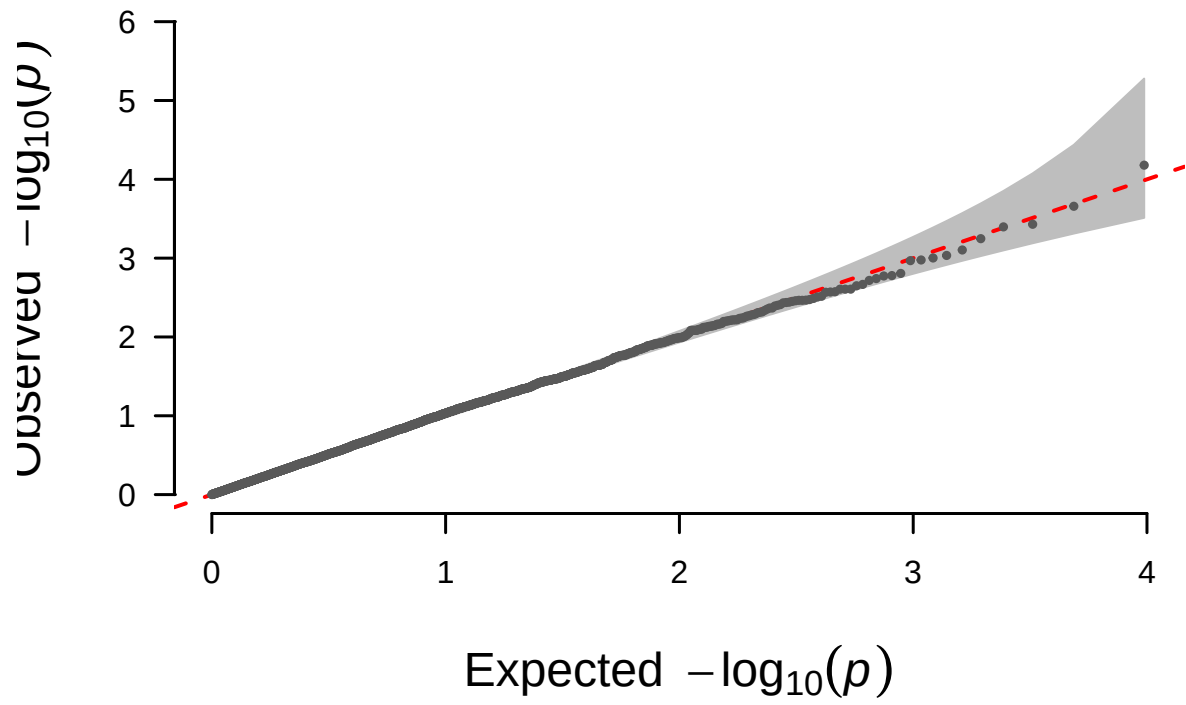


Rectangular Manhattan plotting OC.



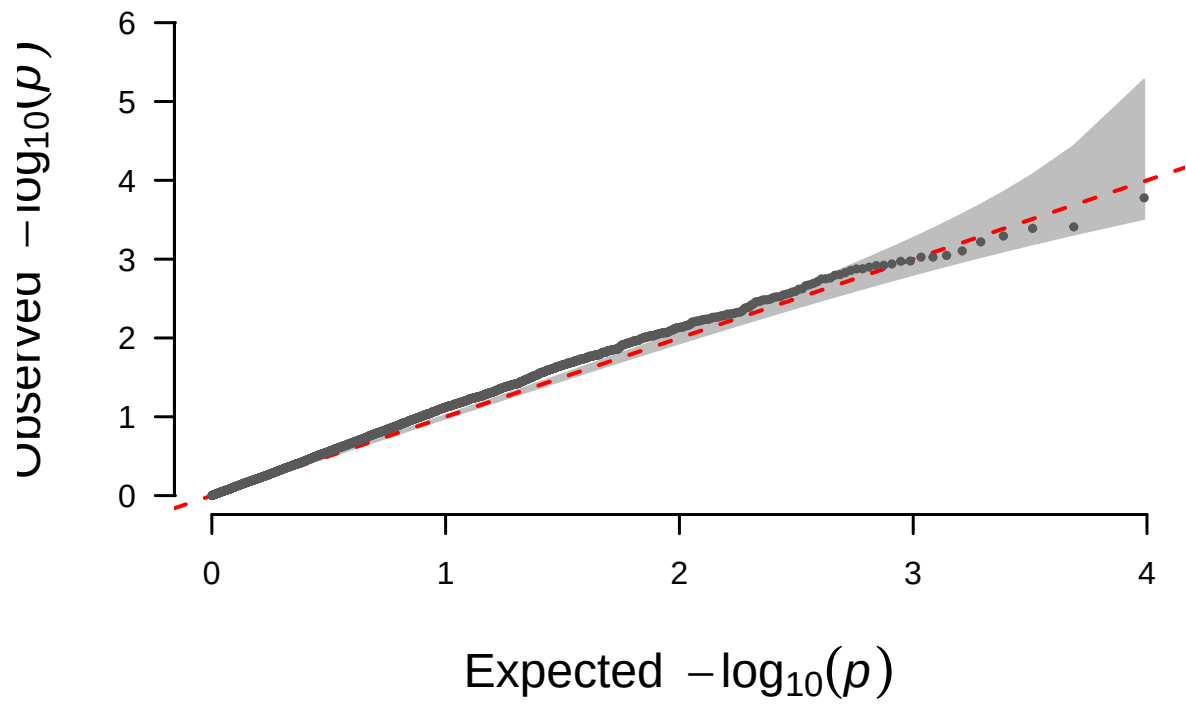
Q-Q plotting LL.

LL



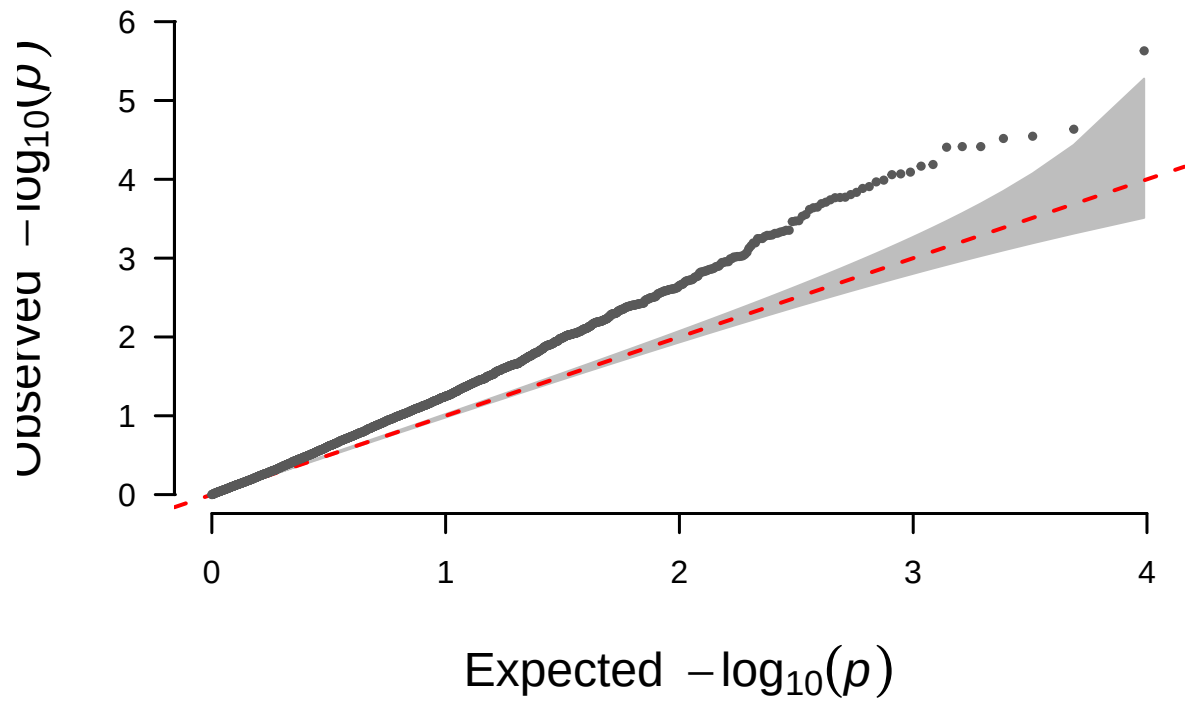
Q-Q plotting LN.

LN

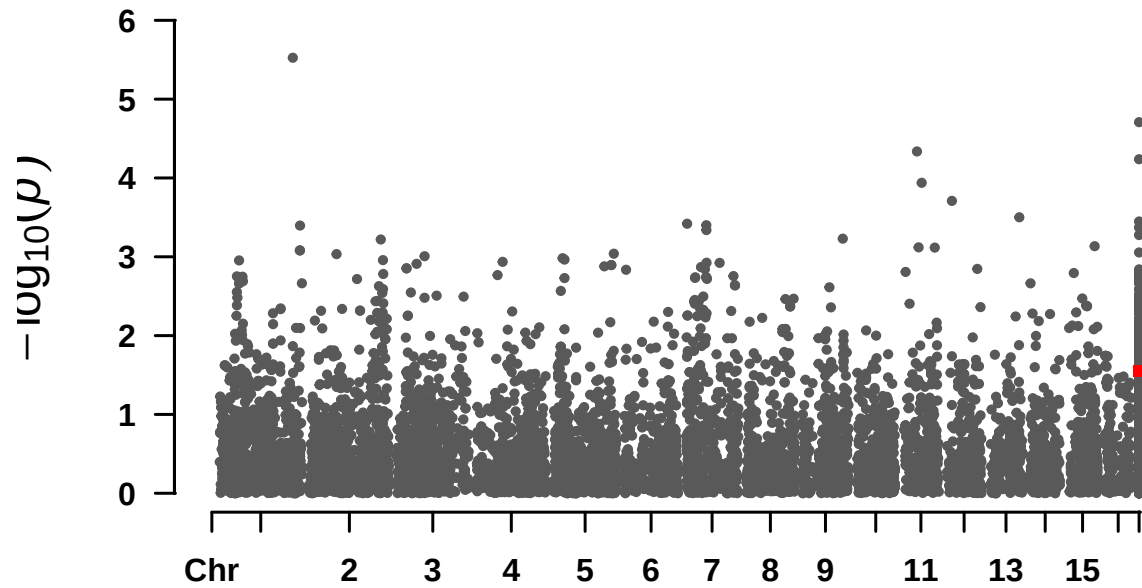


Q-Q plotting OC.

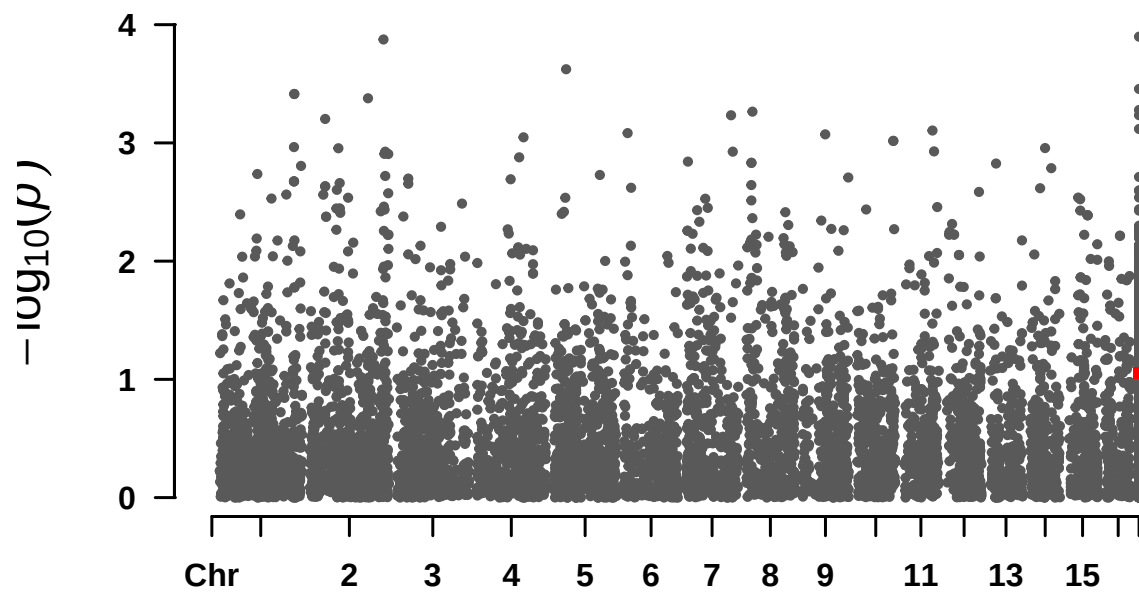
OC



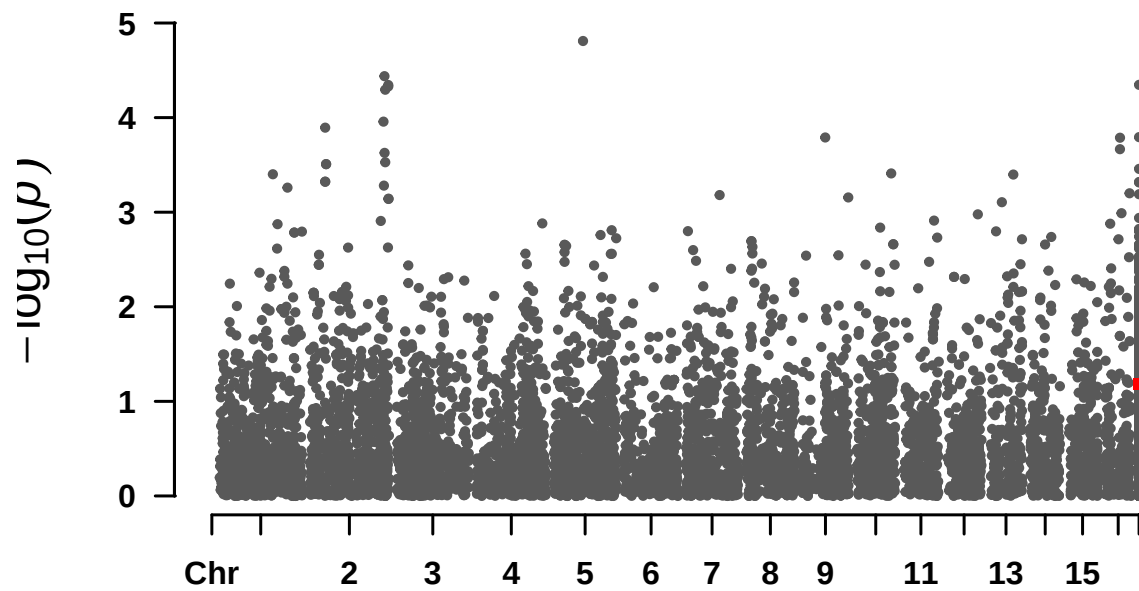
```
##
##
## [1] "=====
## Rectangular Manhattan plotting NW.
```



```
## Rectangular Manhattan plotting HFM.
```

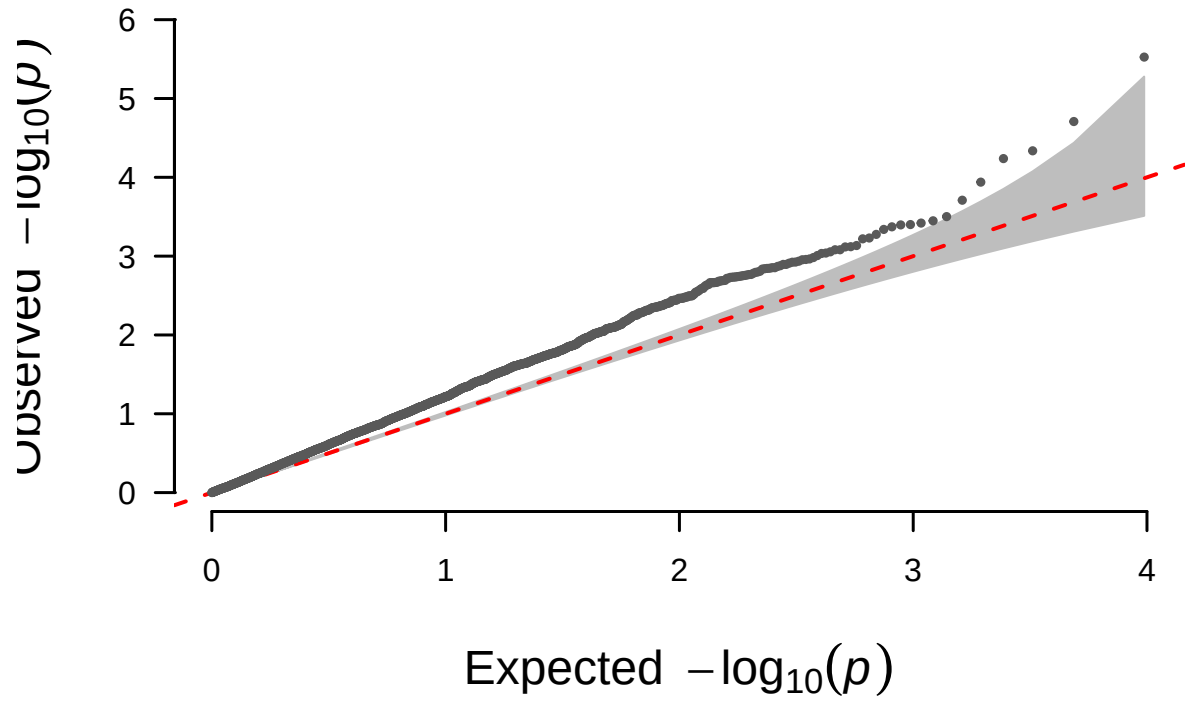



Rectangular Manhattan plotting HDM.



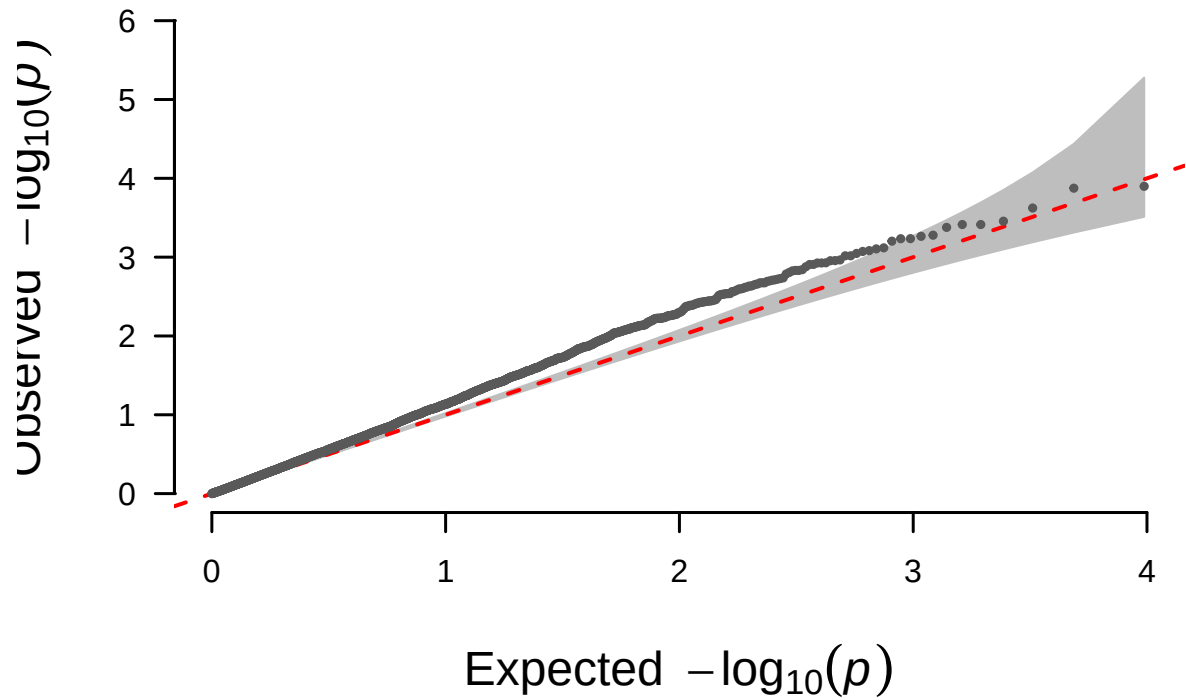
Q-Q plotting NW.

NW



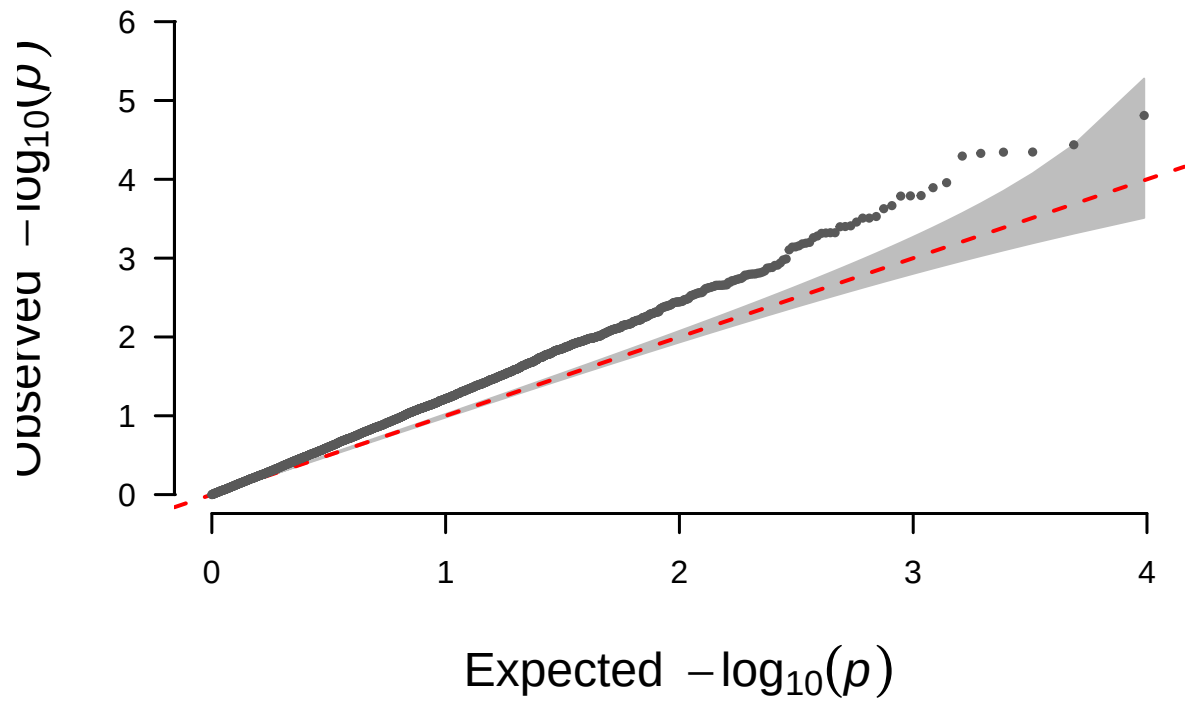
Q-Q plotting HFM.

HFM



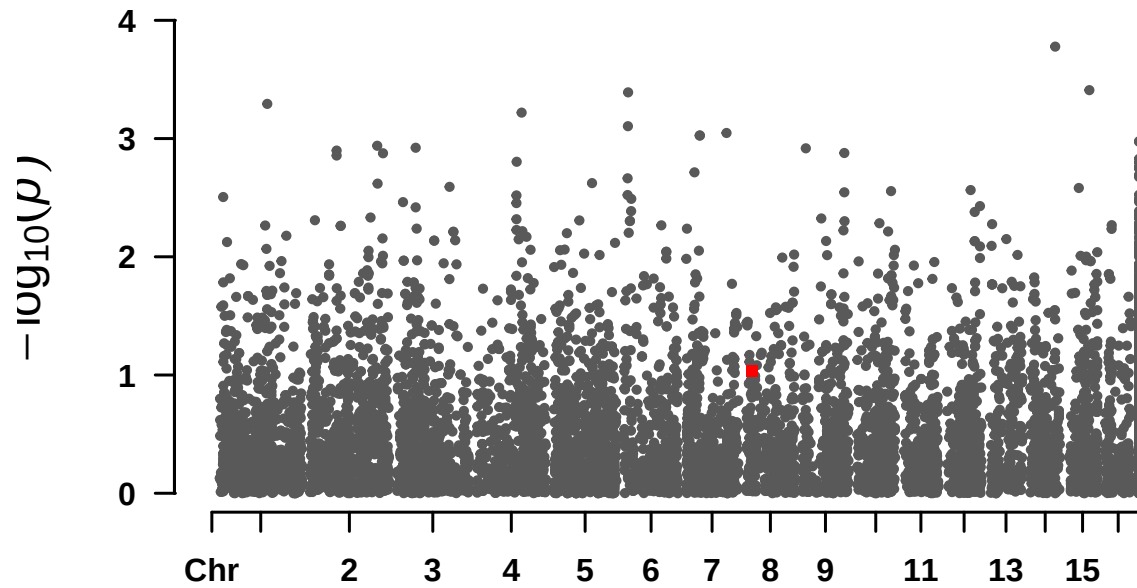
Q-Q plotting HDM.

HDM

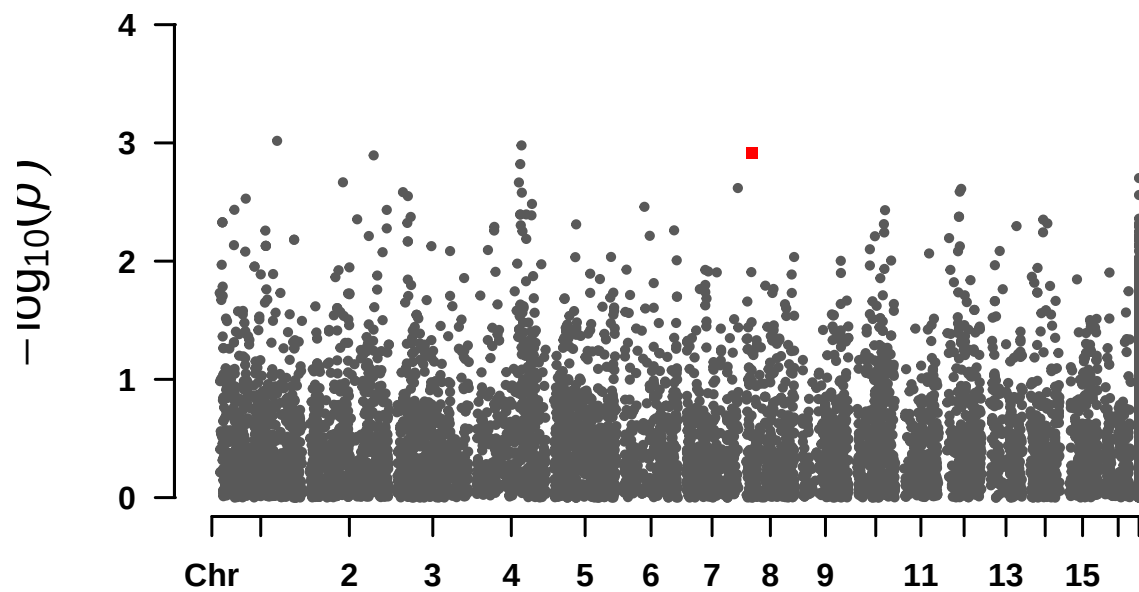


```
##
##
## [1] "=====
```

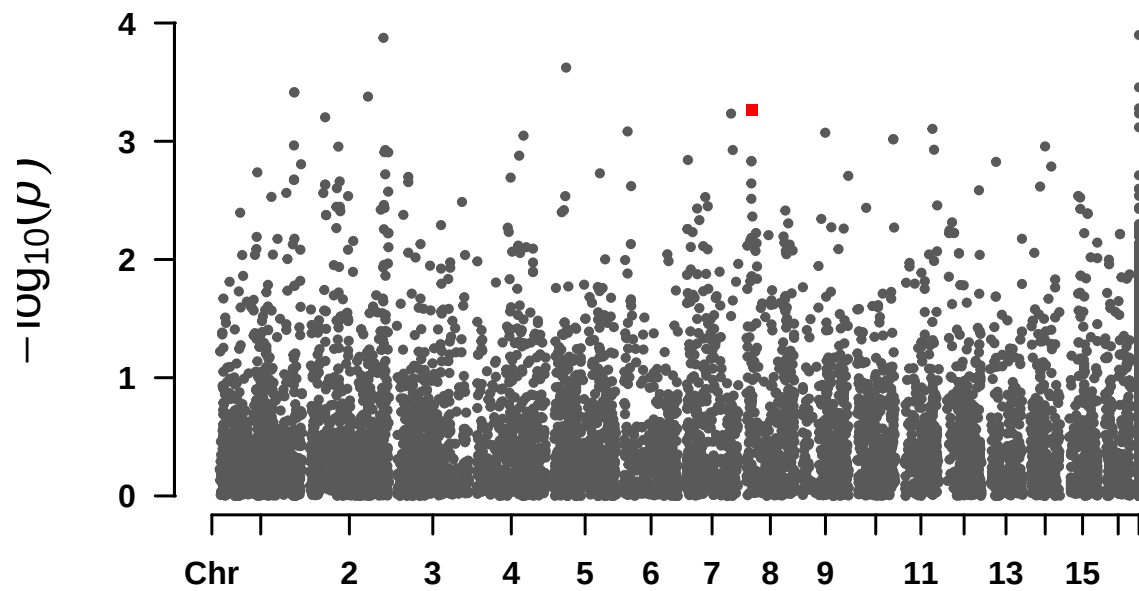
```
## Rectangular Manhattan plotting LN.
```



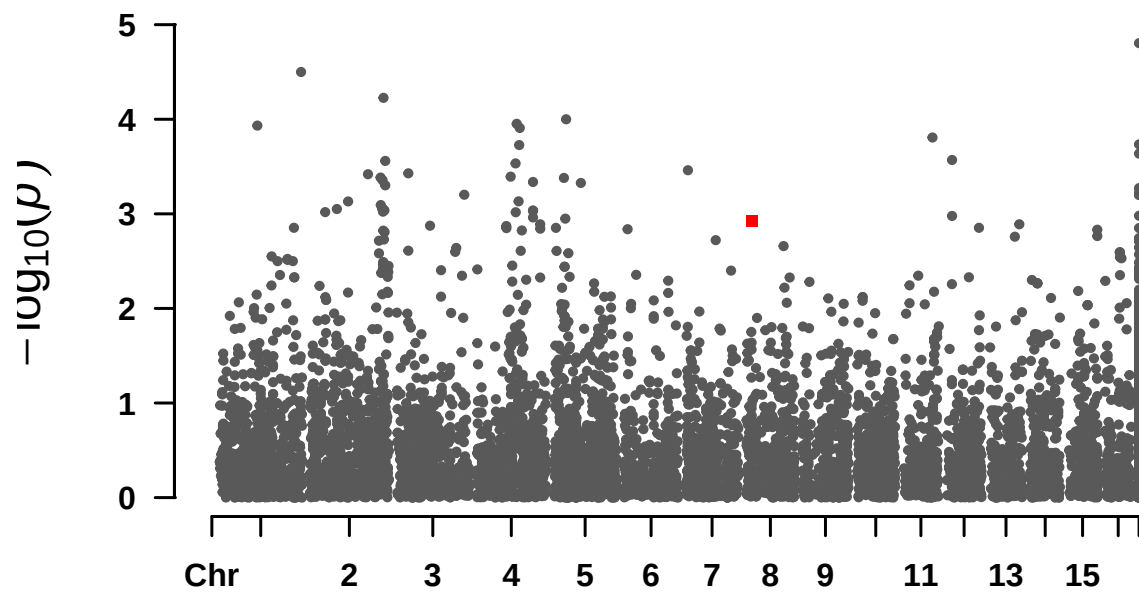
```
## Rectangular Manhattan plotting NN.
```



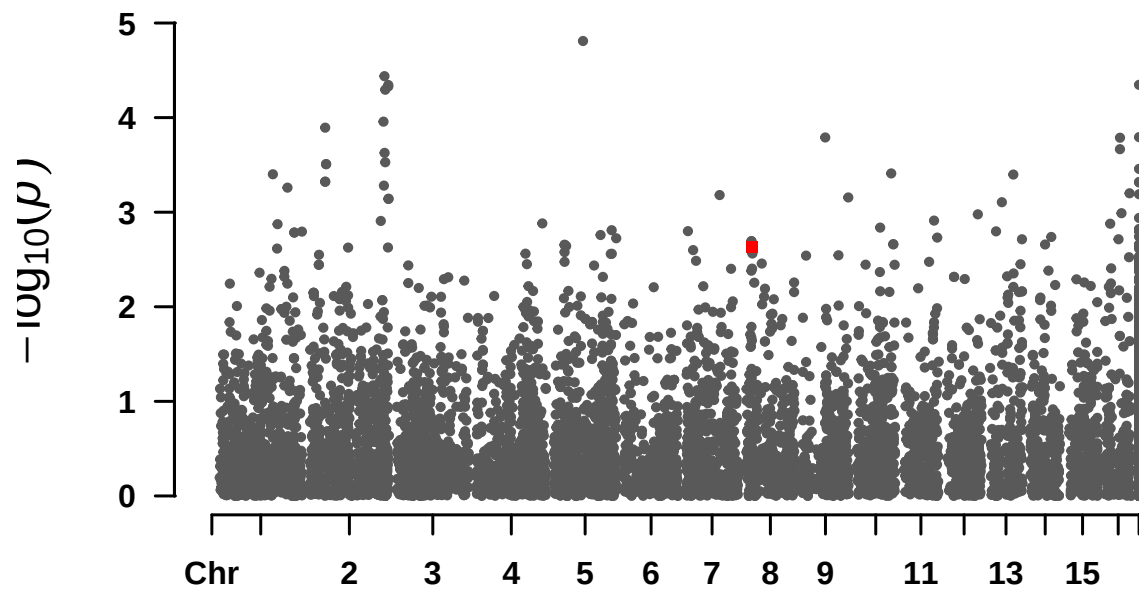
Rectangular Manhattan plotting HFM.



Rectangular Manhattan plotting FM.

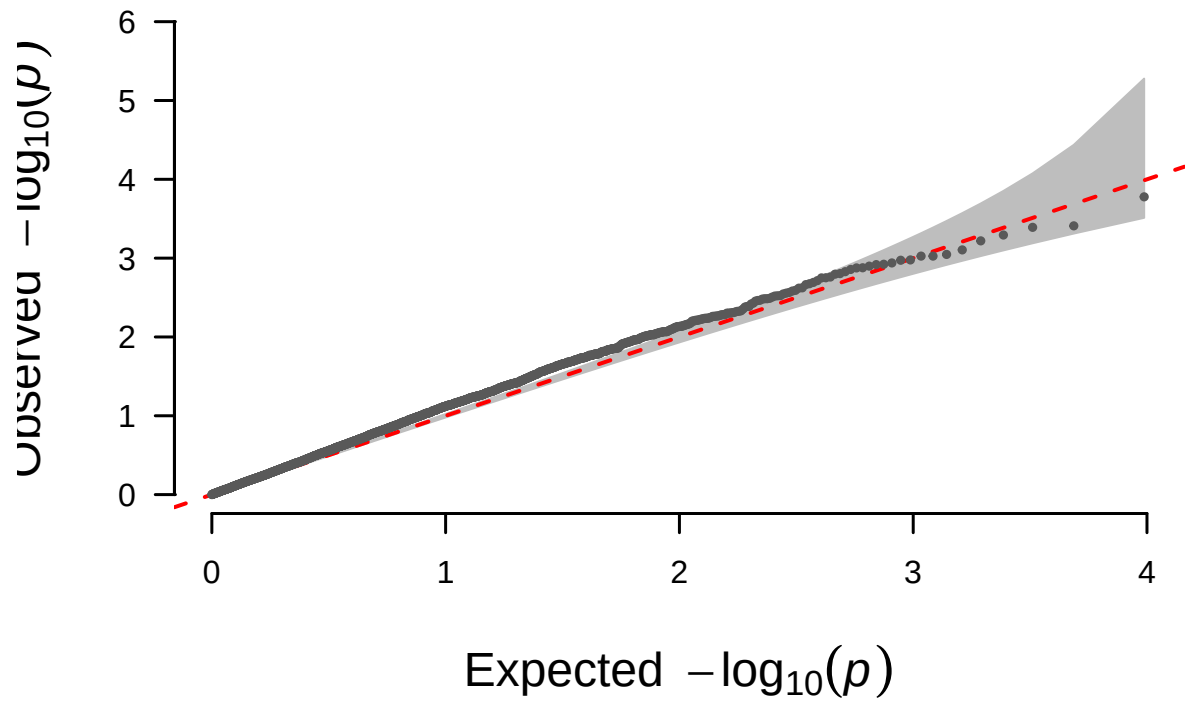


Rectangular Manhattan plotting HDM.



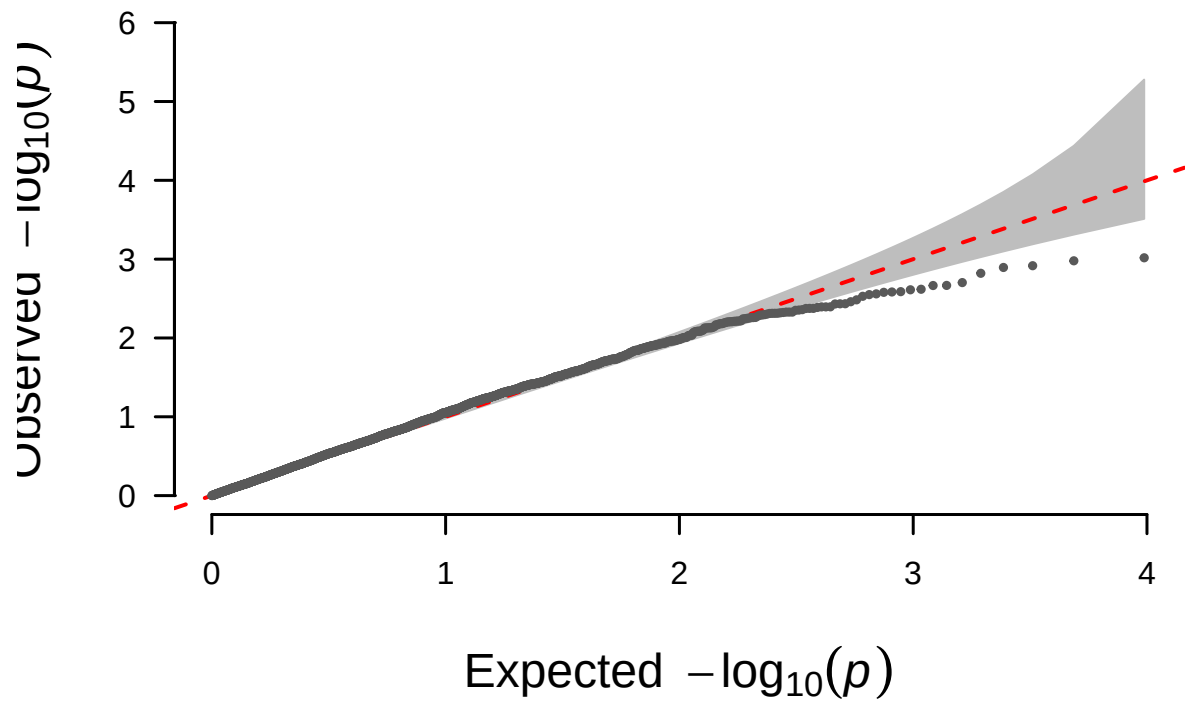
Q-Q plotting LN.

LN



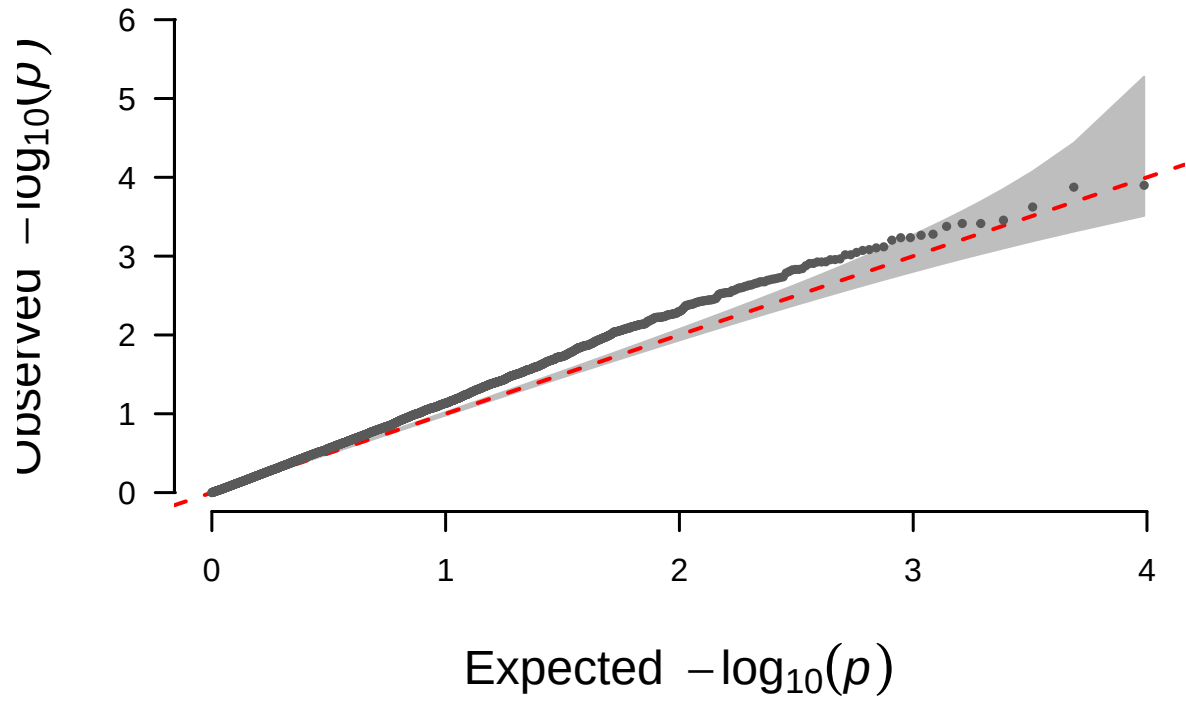
Q-Q plotting NN.

NN



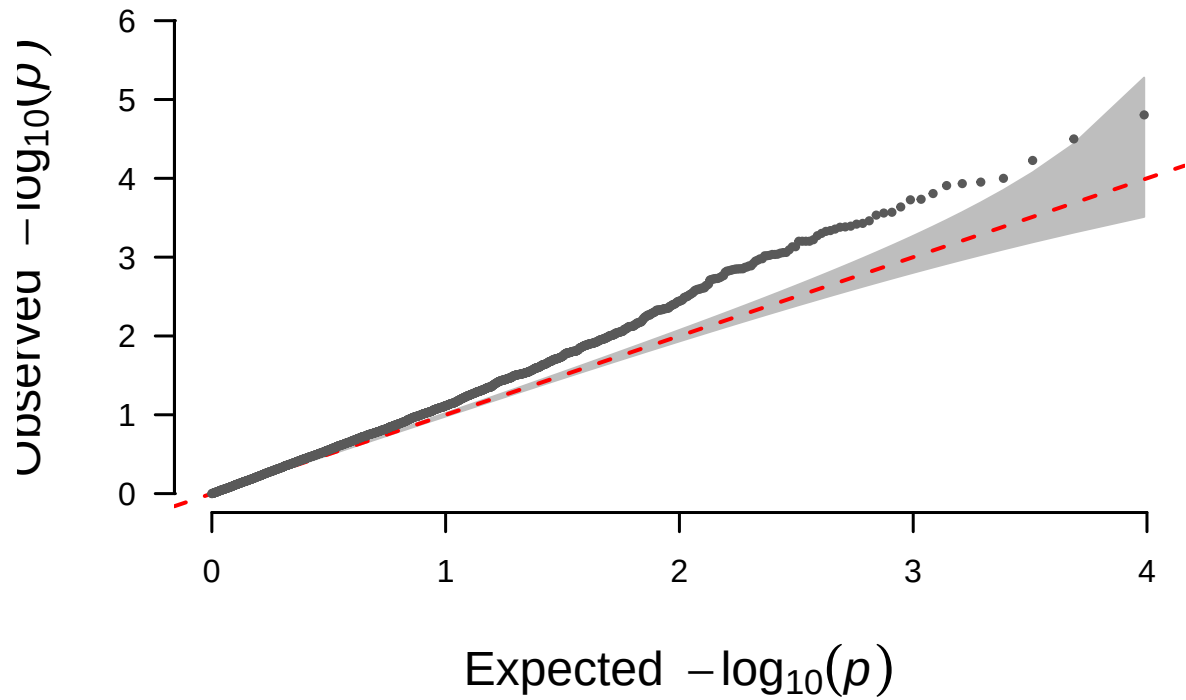
Q-Q plotting HFM.

HFM



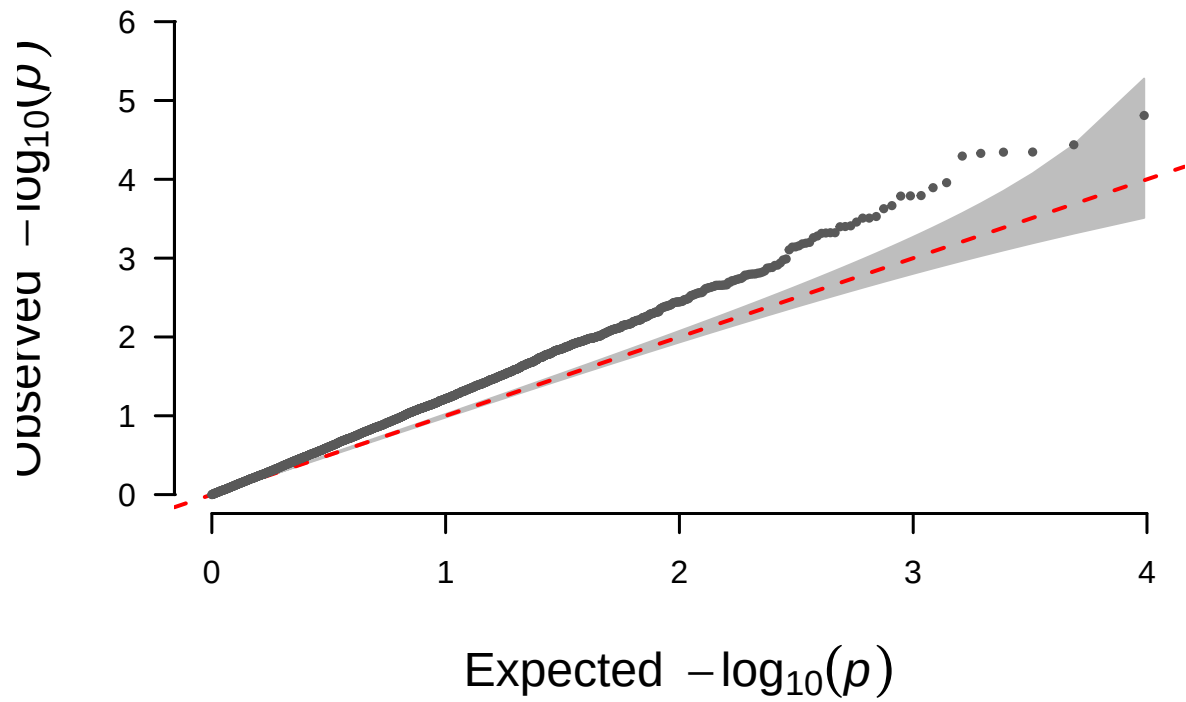
Q-Q plotting FM.

FM



Q-Q plotting HDM.

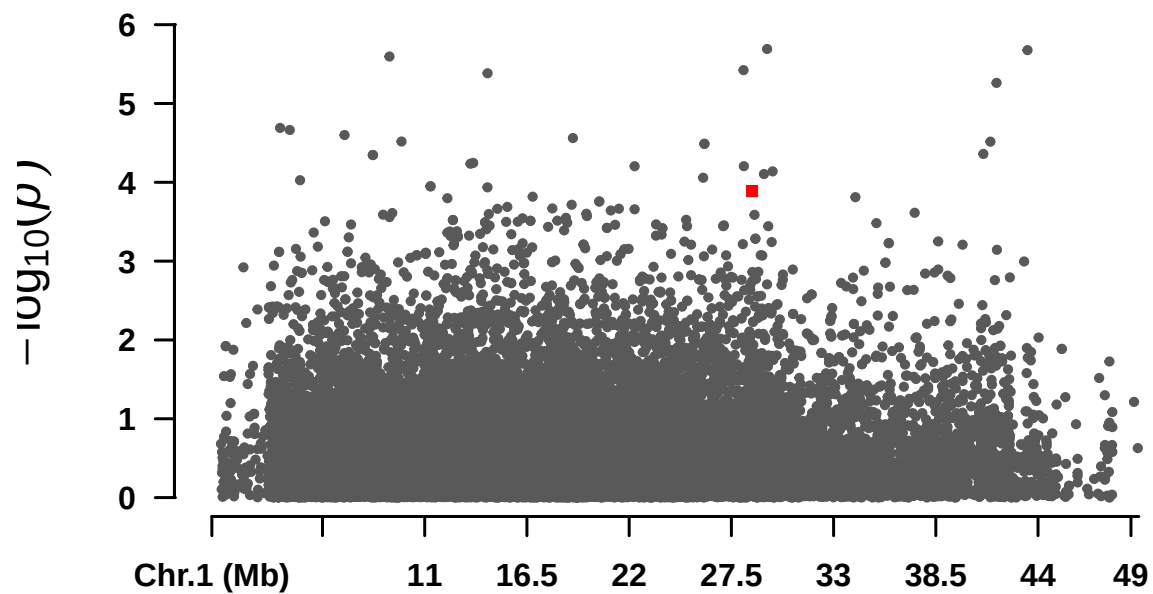
HDM



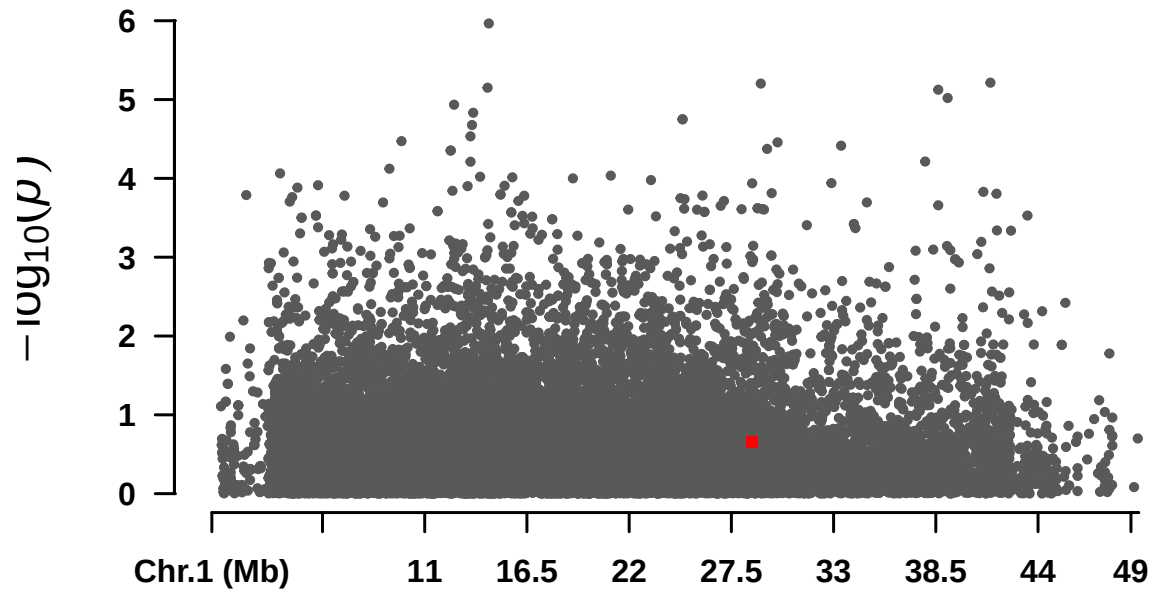
```
##
##
## [1] "=====
```

GLM de novo genotypic dataset

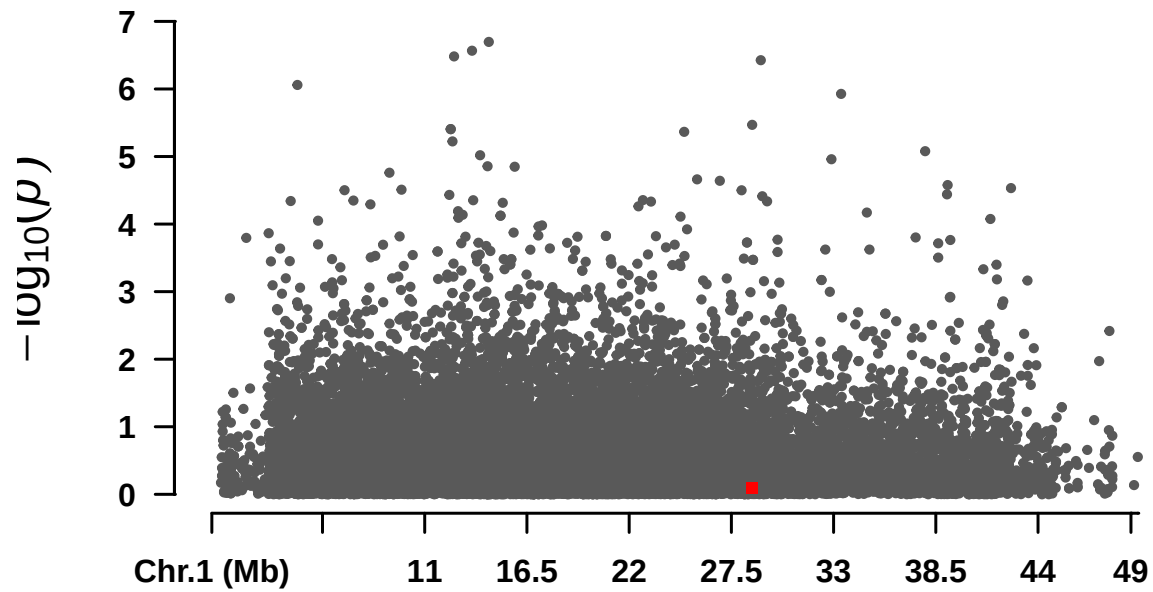
Rectangular Manhattan plotting HDM.



Rectangular Manhattan plotting FDM.

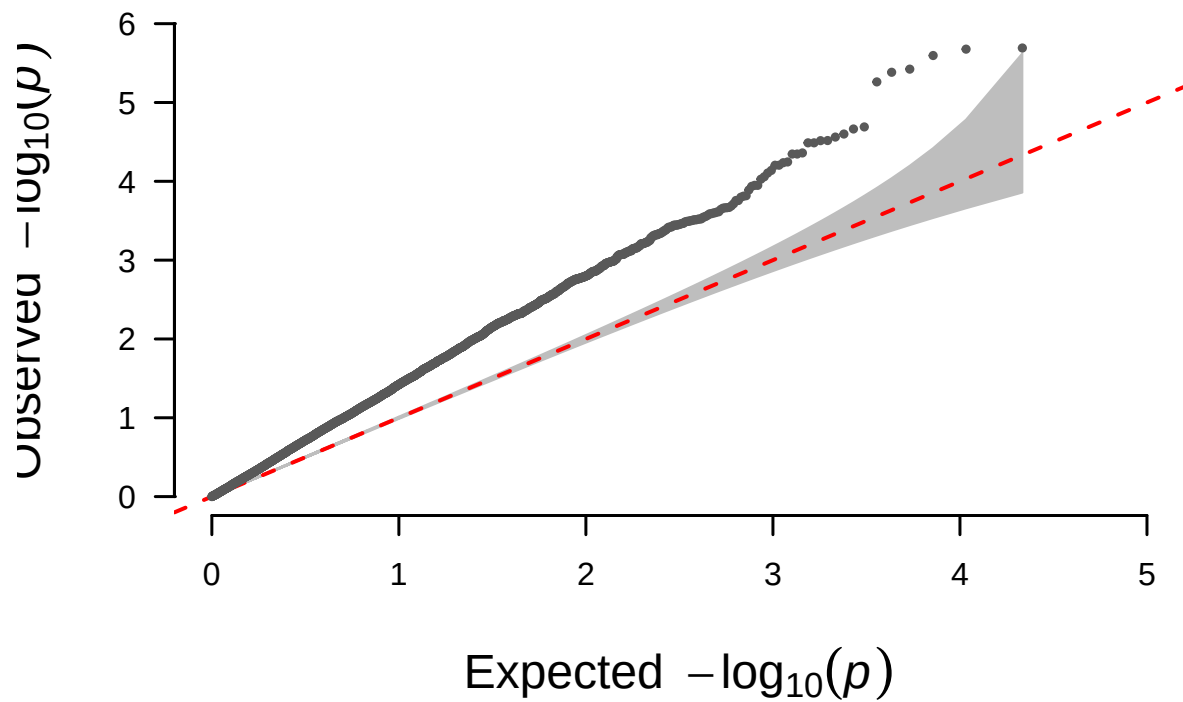


Rectangular Manhattan plotting PDM.



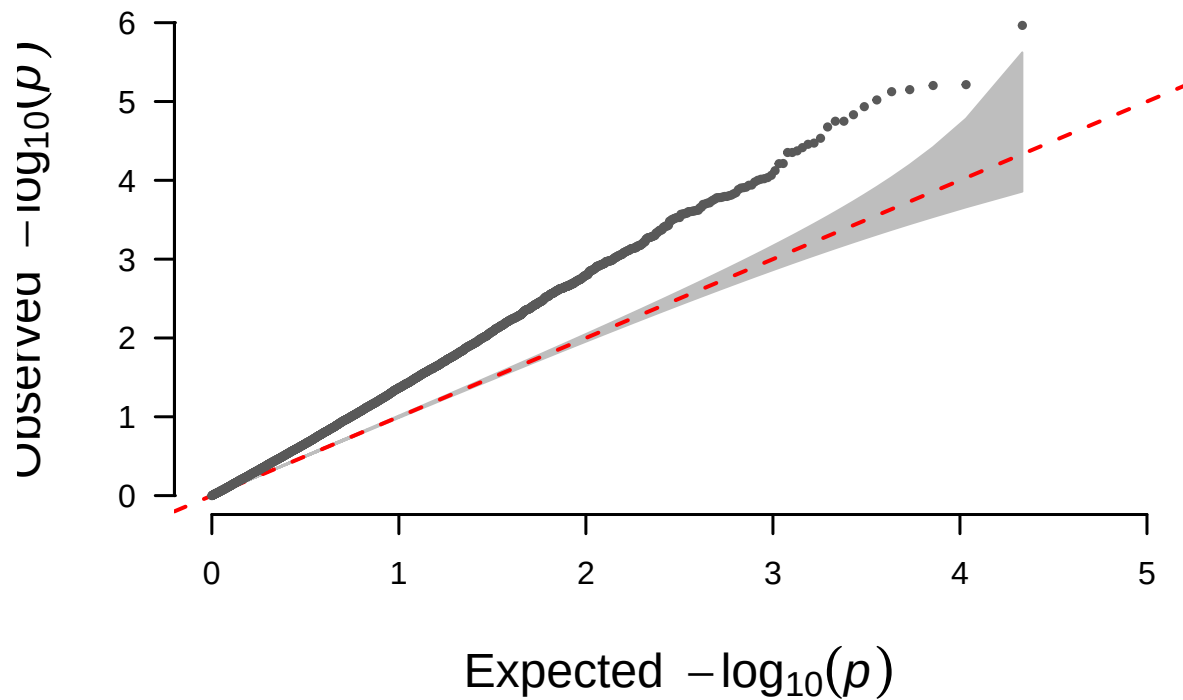
Q-Q plotting HDM.

HDM



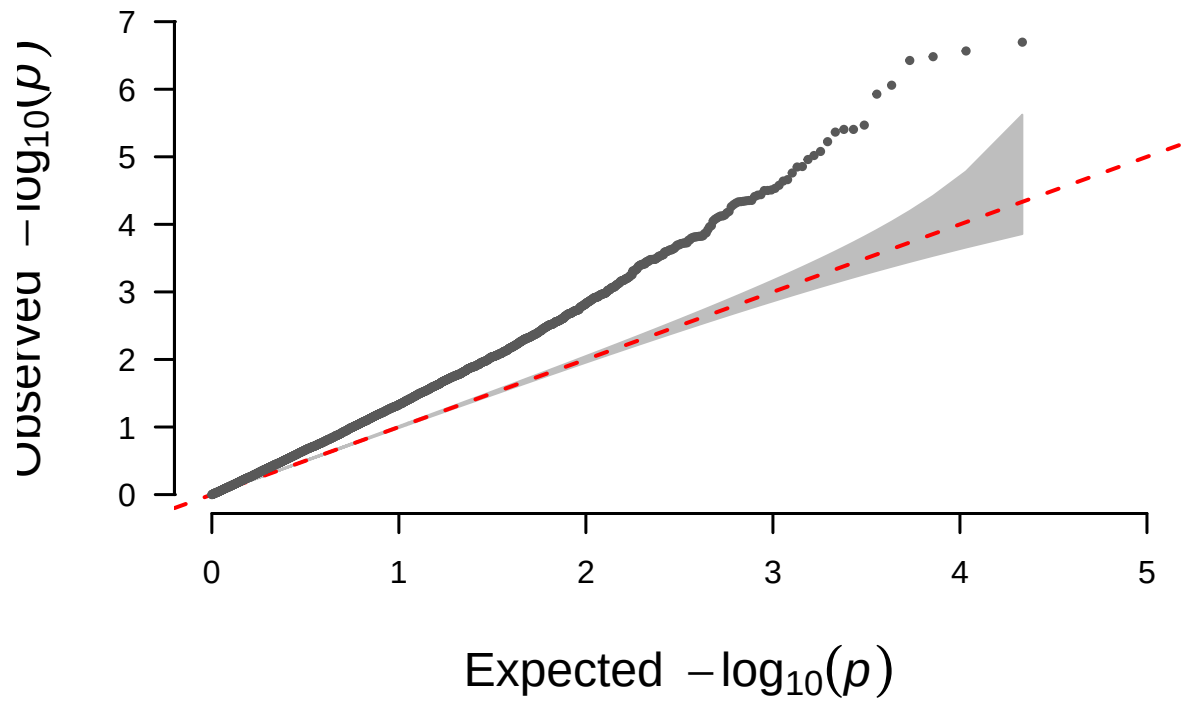
Q-Q plotting FDM.

FDM

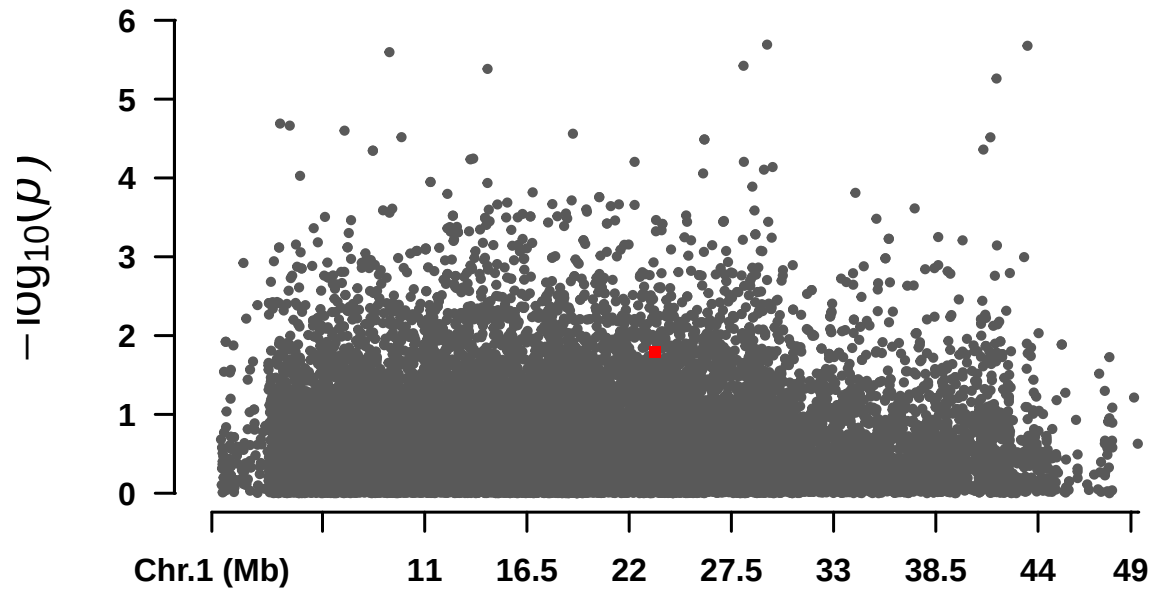


Q-Q plotting PDM.

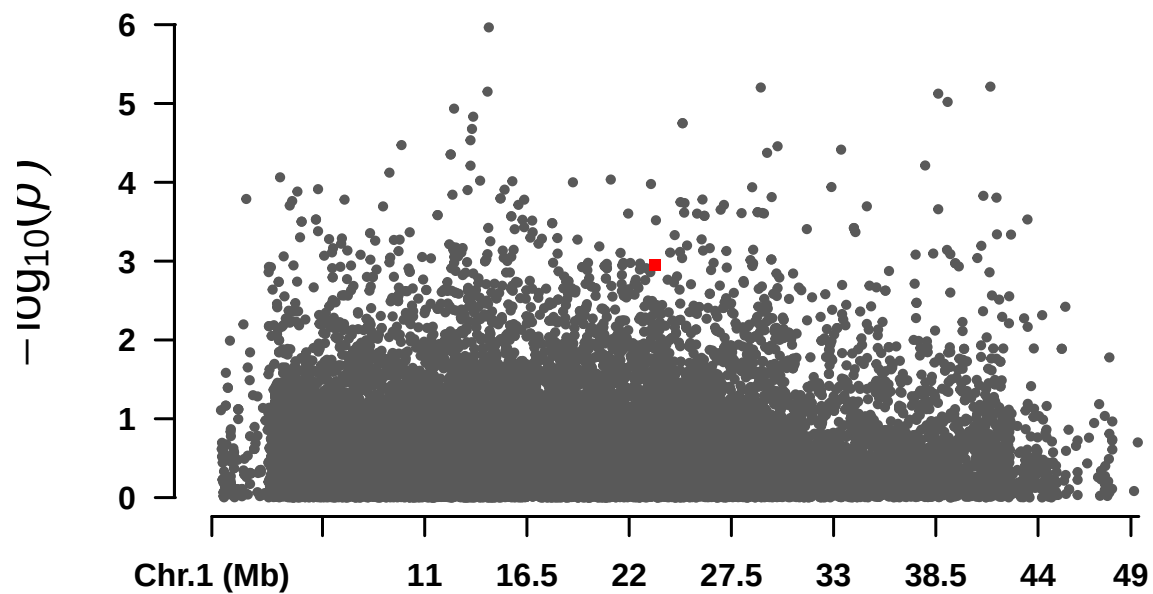
PDM



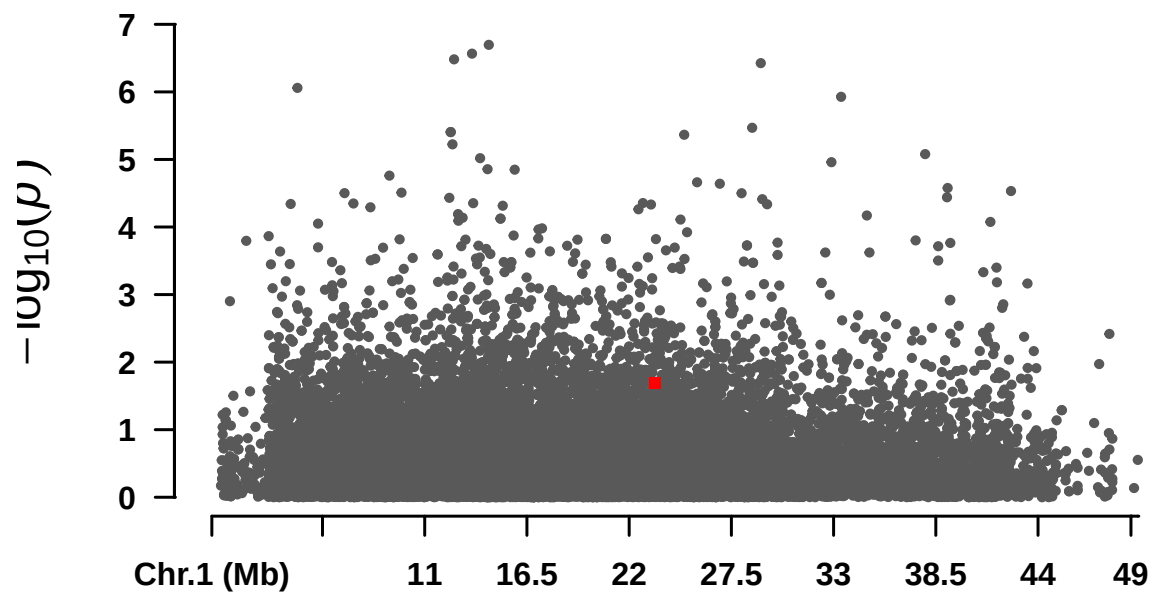
```
##
##
## [1] "=====
## Rectangular Manhattan plotting HDM.
```



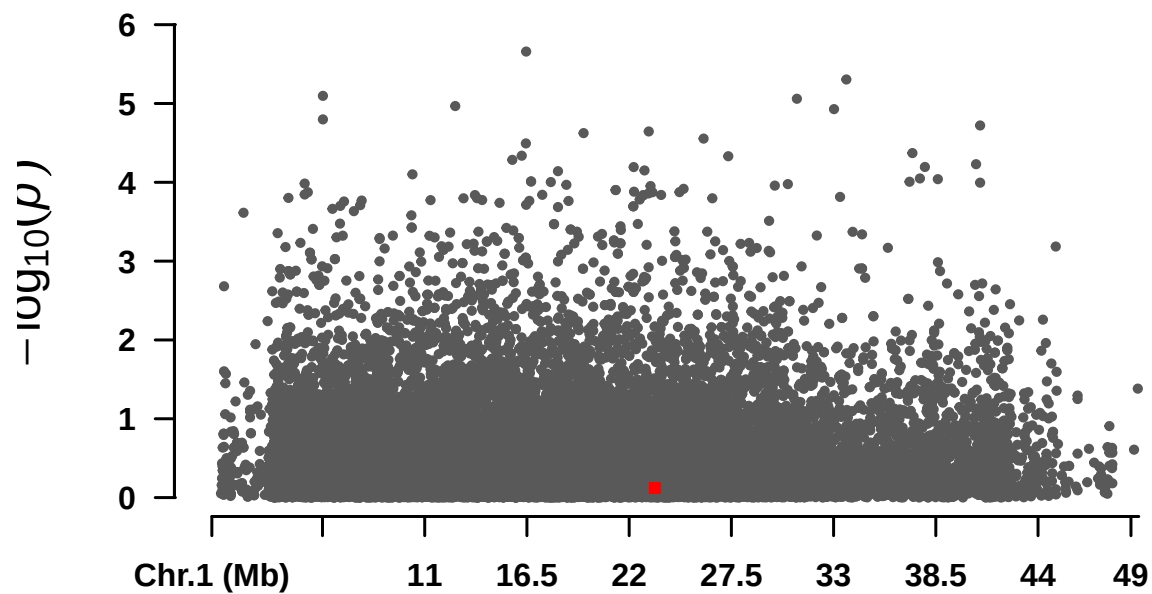
```
## Rectangular Manhattan plotting FDM.
```



Rectangular Manhattan plotting PDM.

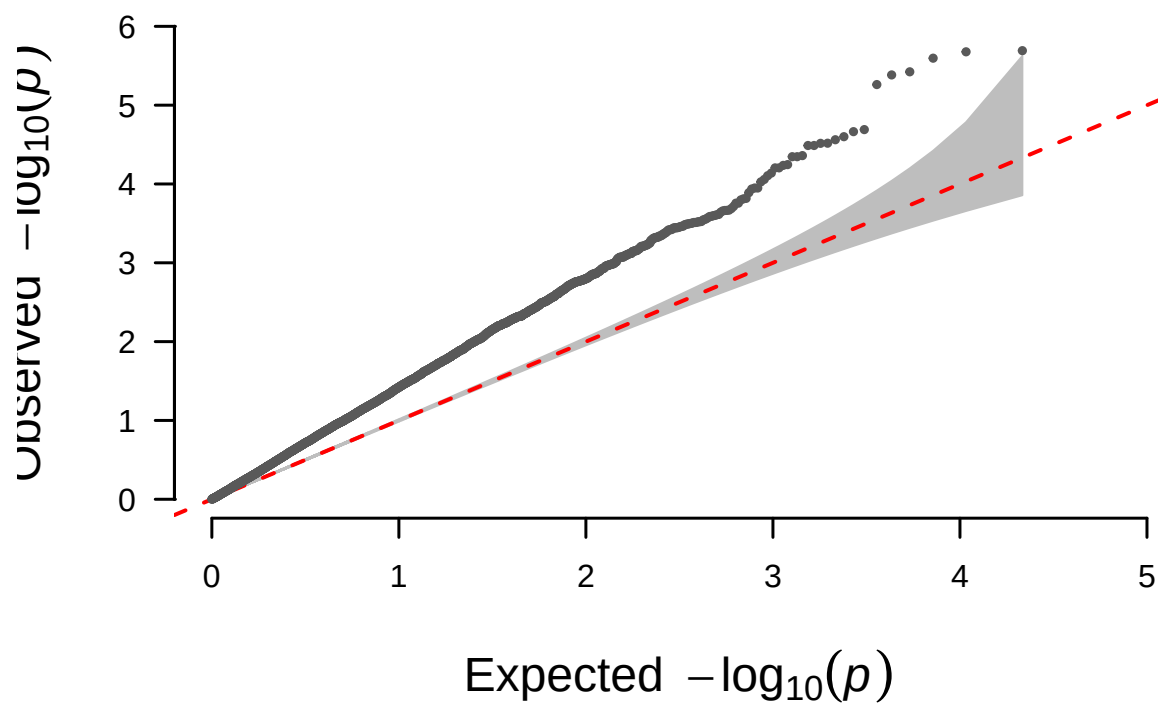


Rectangular Manhattan plotting OC.



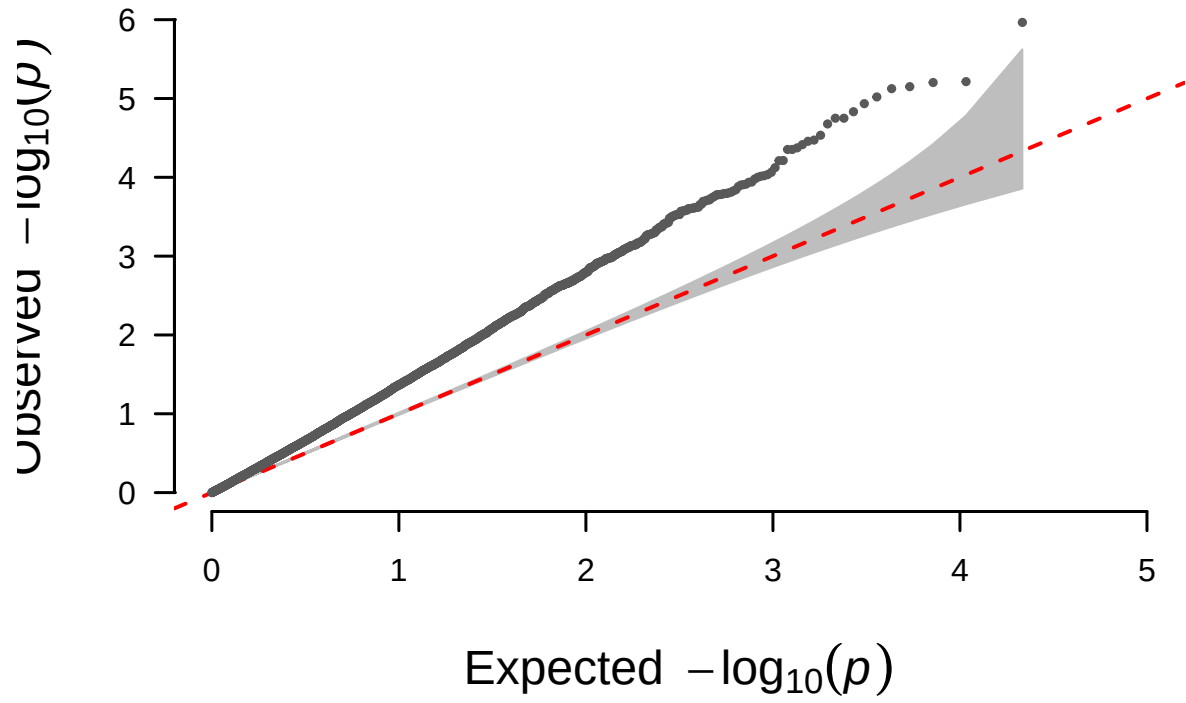
Q-Q plotting HDM.

HDM



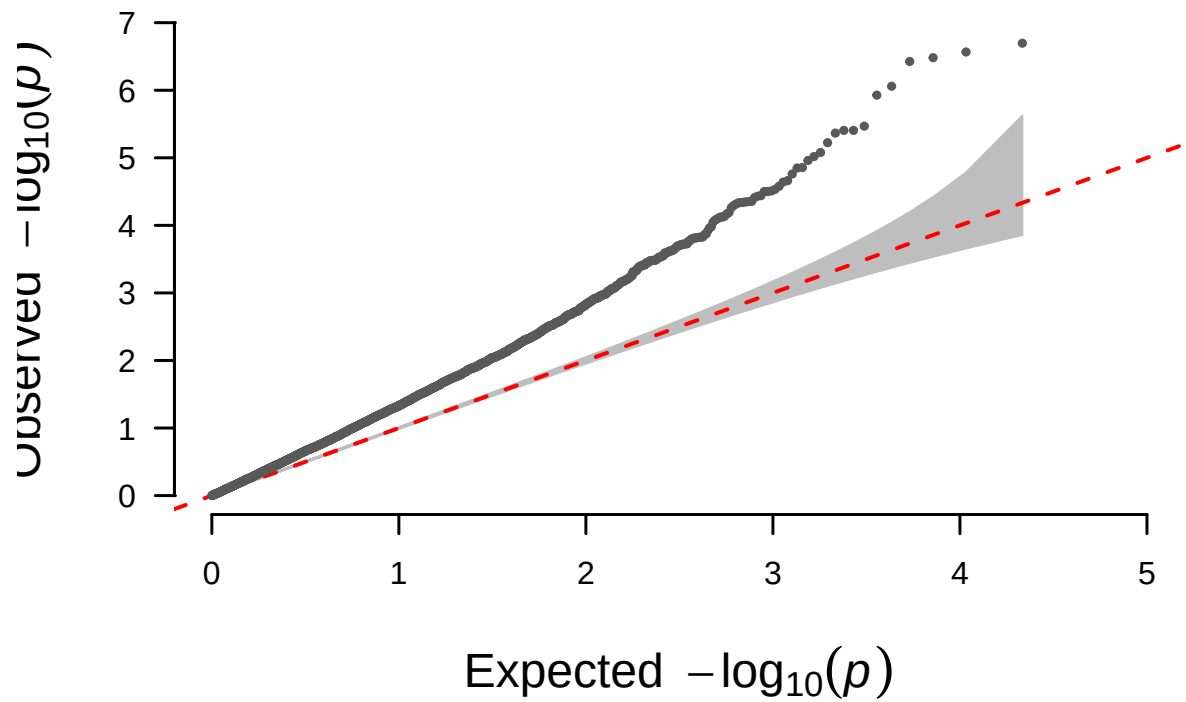
Q-Q plotting FDM.

FDM



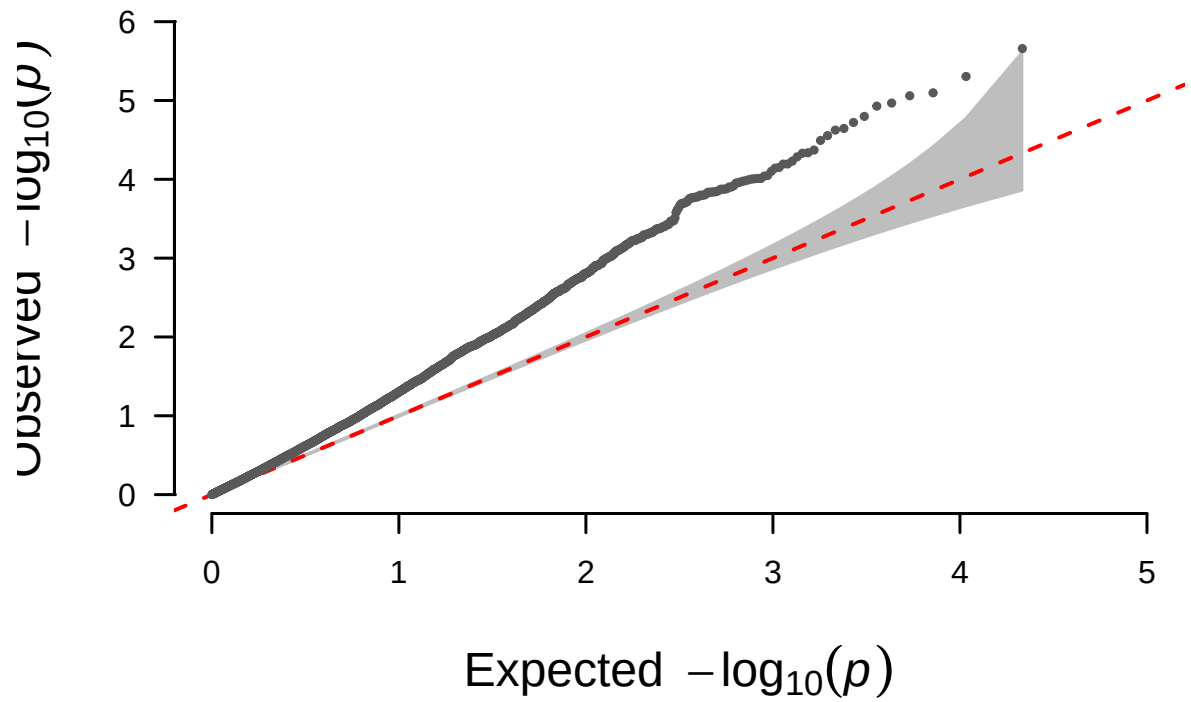
Q-Q plotting PDM.

PDM



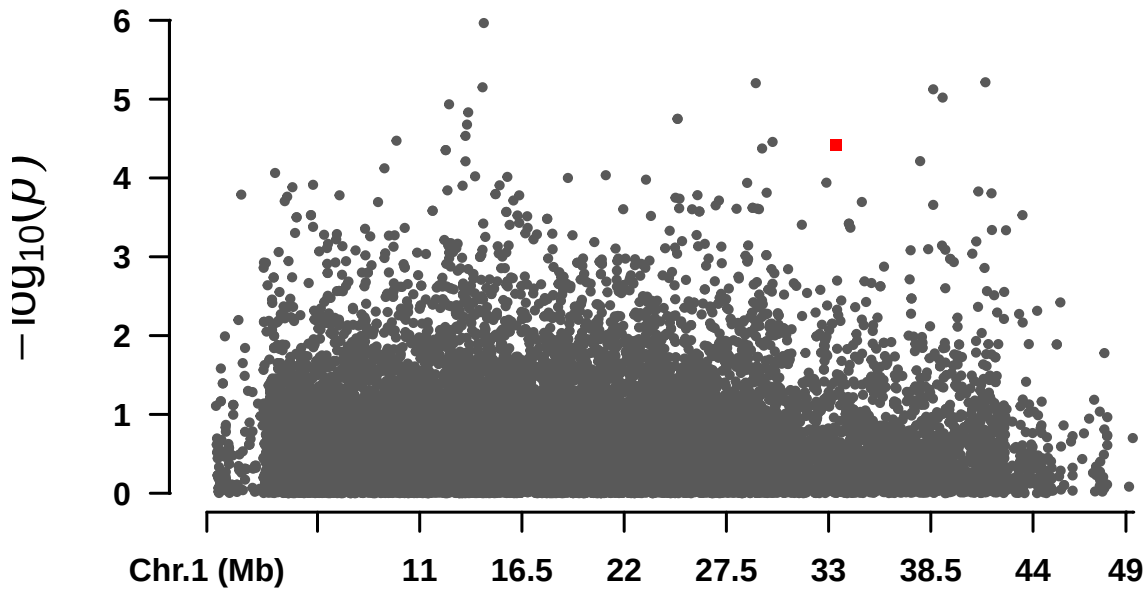
Q-Q plotting OC.

OC

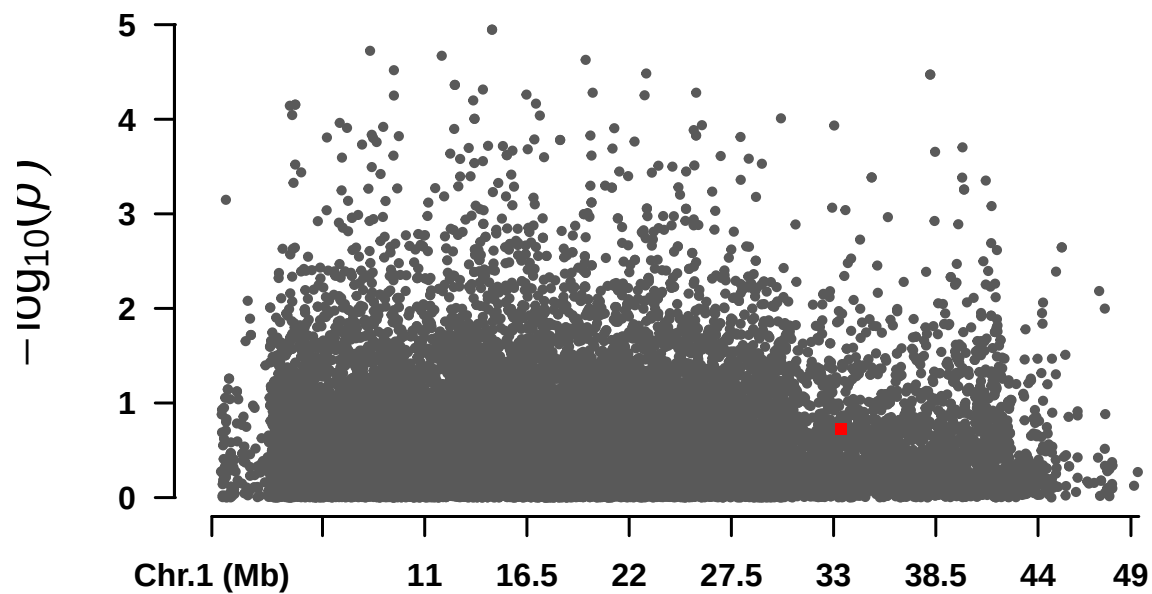


```
##
##
## [1] "=====
```

```
## Rectangular Manhattan plotting FDM.
```

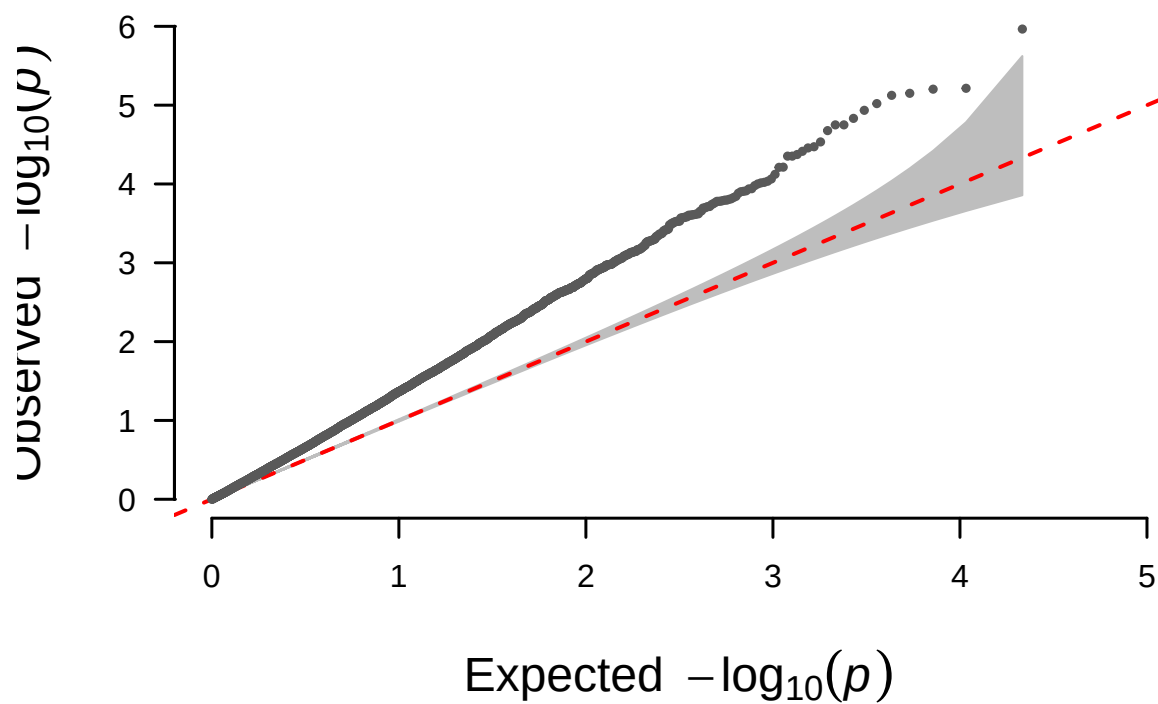


```
## Rectangular Manhattan plotting KDM.
```



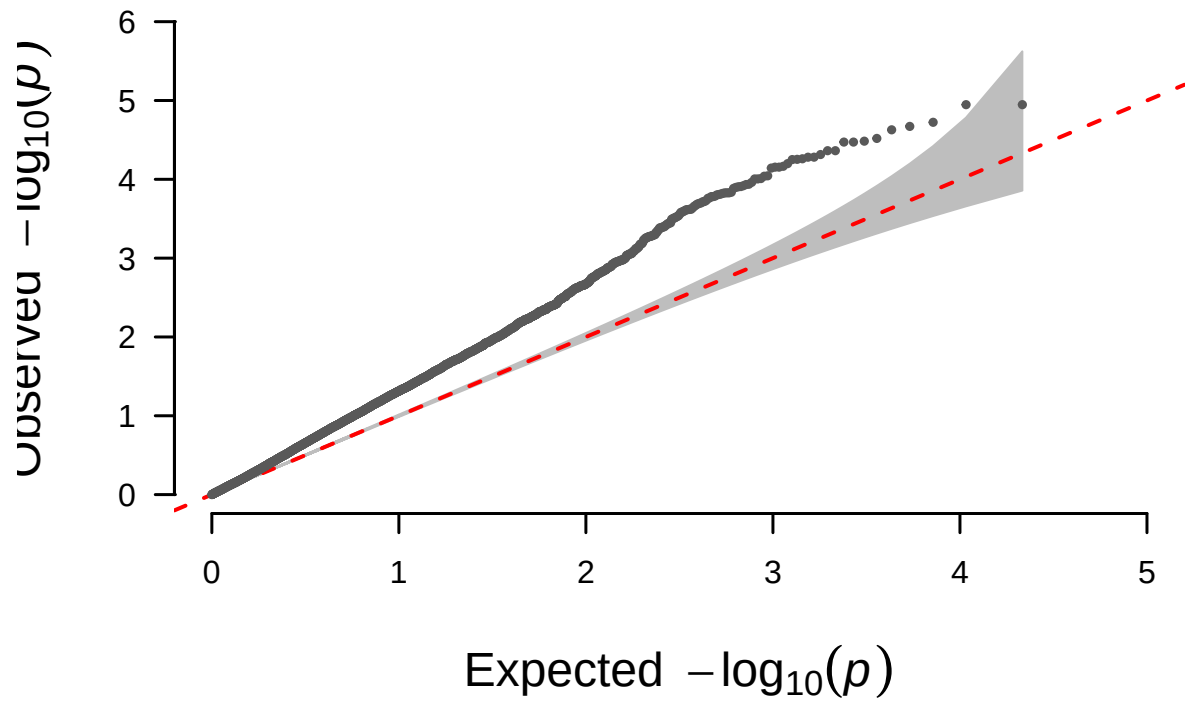
Q-Q plotting FDM.

FDM



Q-Q plotting KDM.

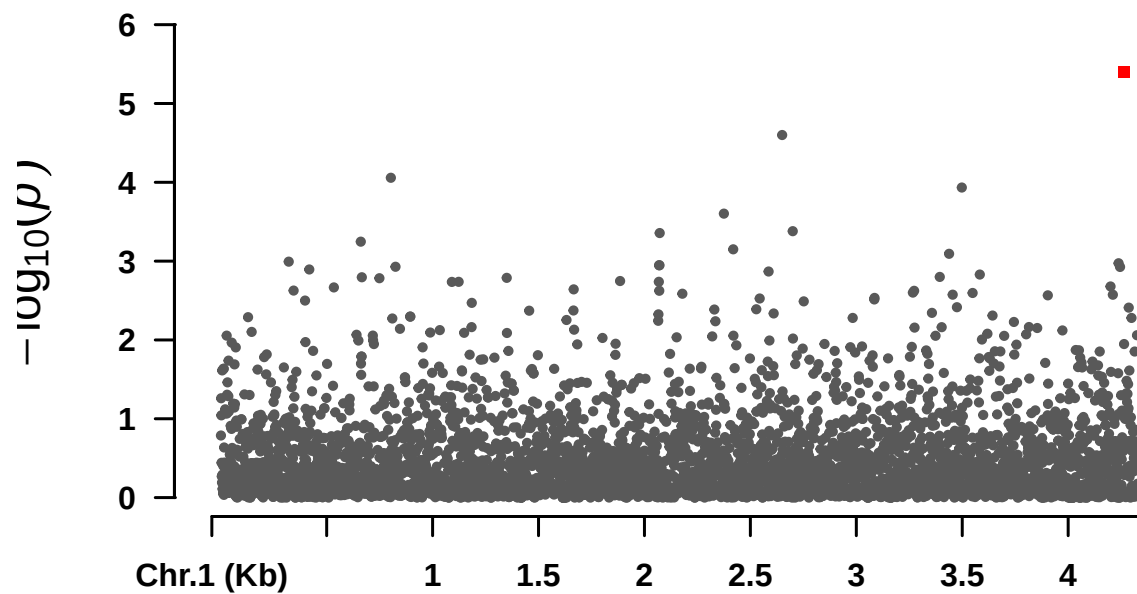
KDM



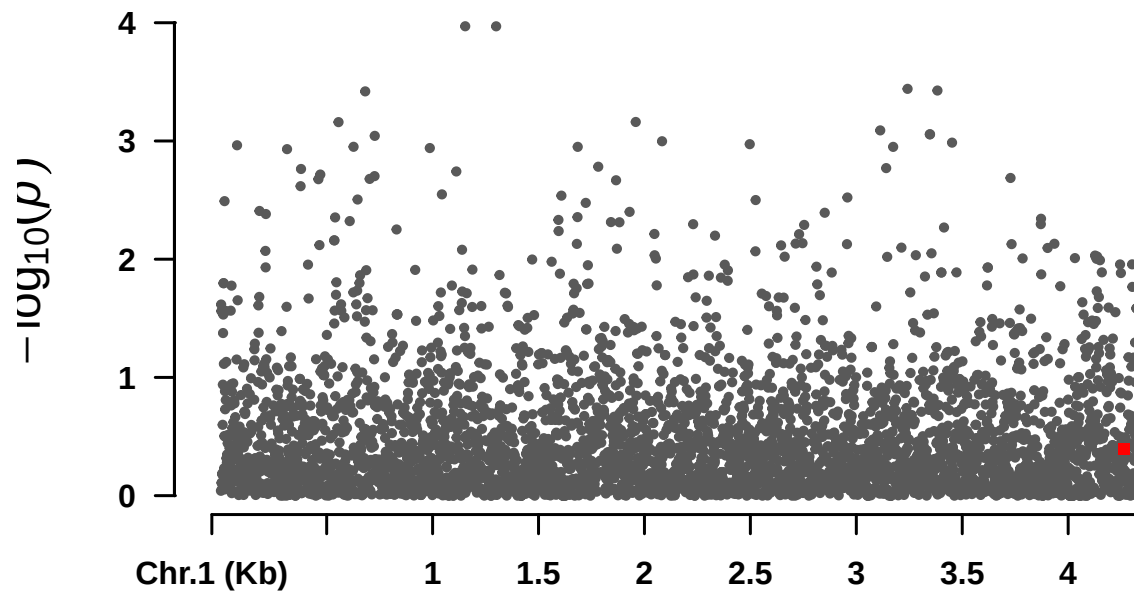
```
##
##
## [1] "=====
```

GLM transcriptome genotypic dataset

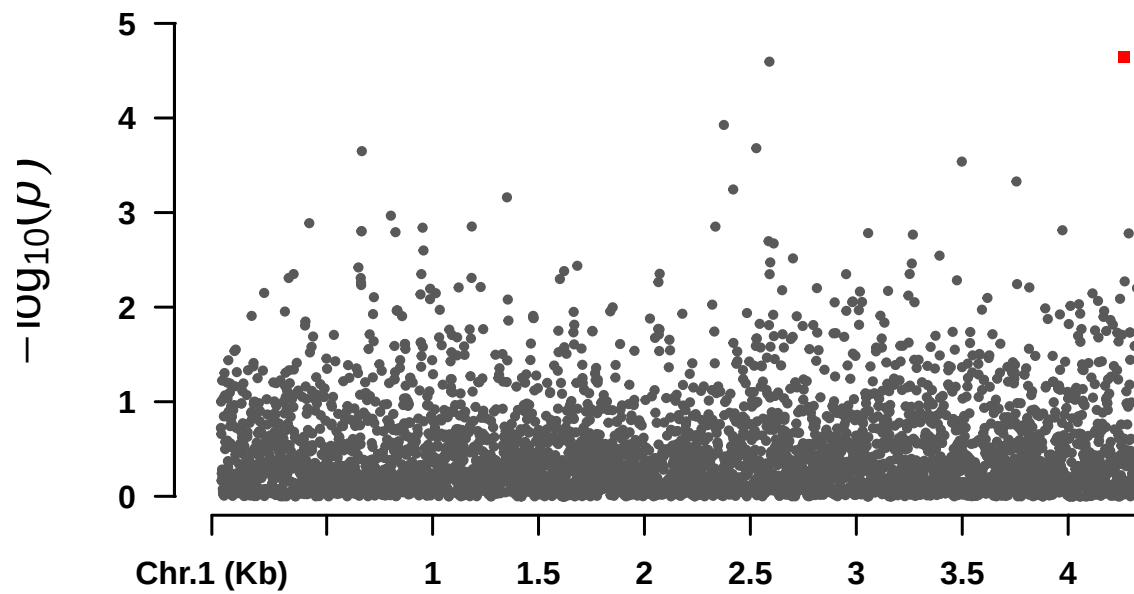
Rectangular Manhattan plotting FDM.



Rectangular Manhattan plotting OC.

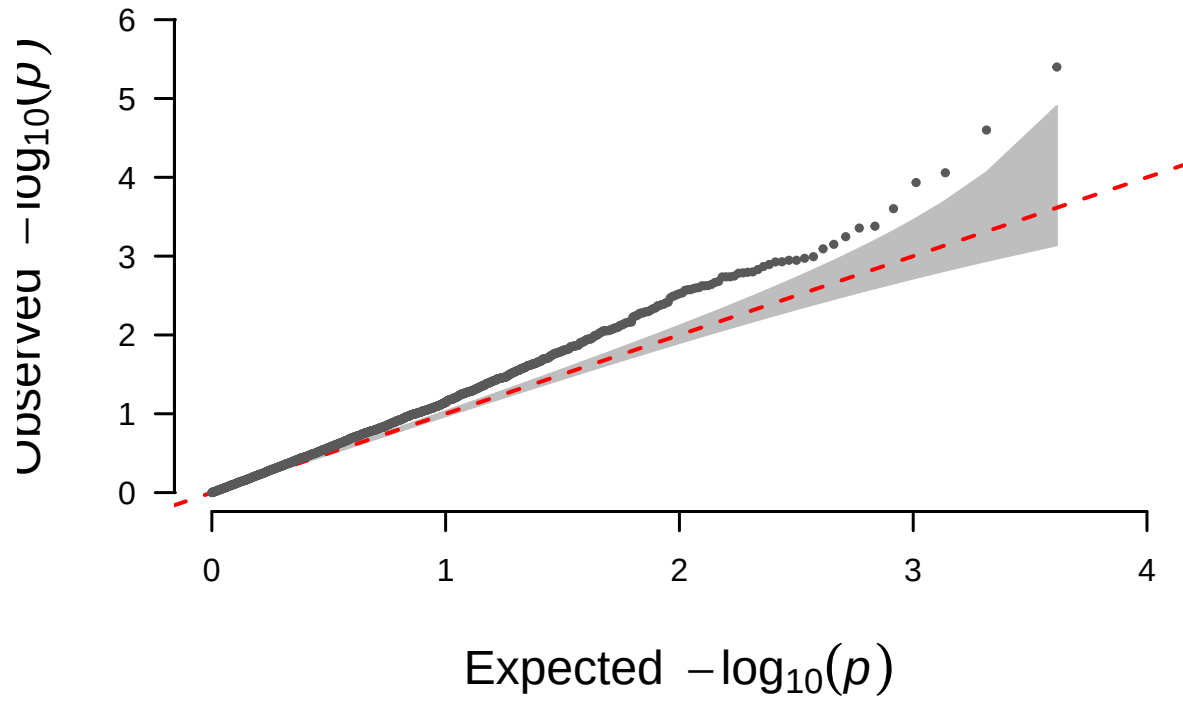


Rectangular Manhattan plotting HDM.



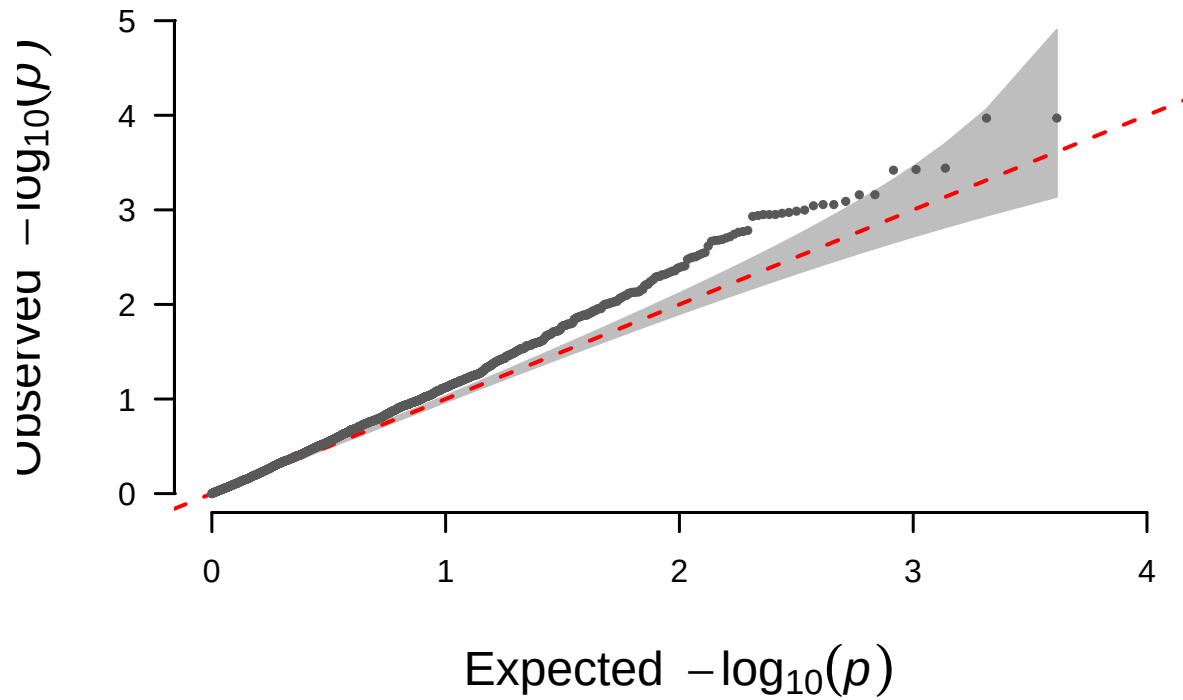
Q-Q plotting FDM.

FDM



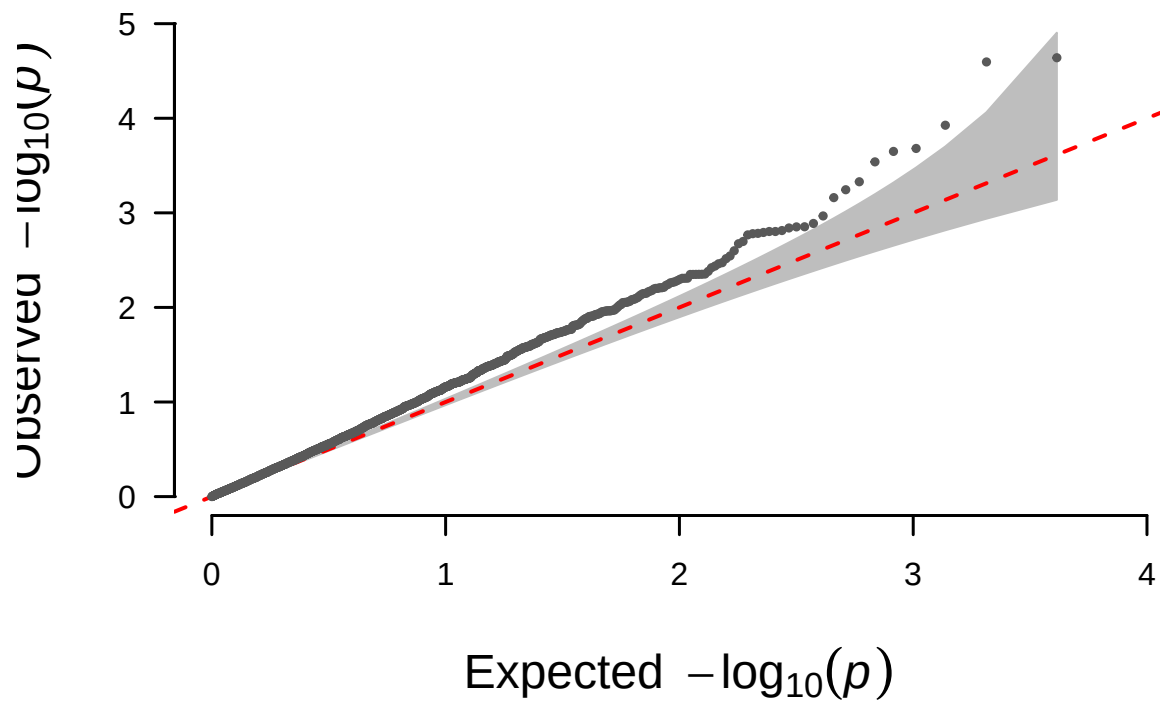
Q-Q plotting OC.

OC



Q-Q plotting HDM.

HDM

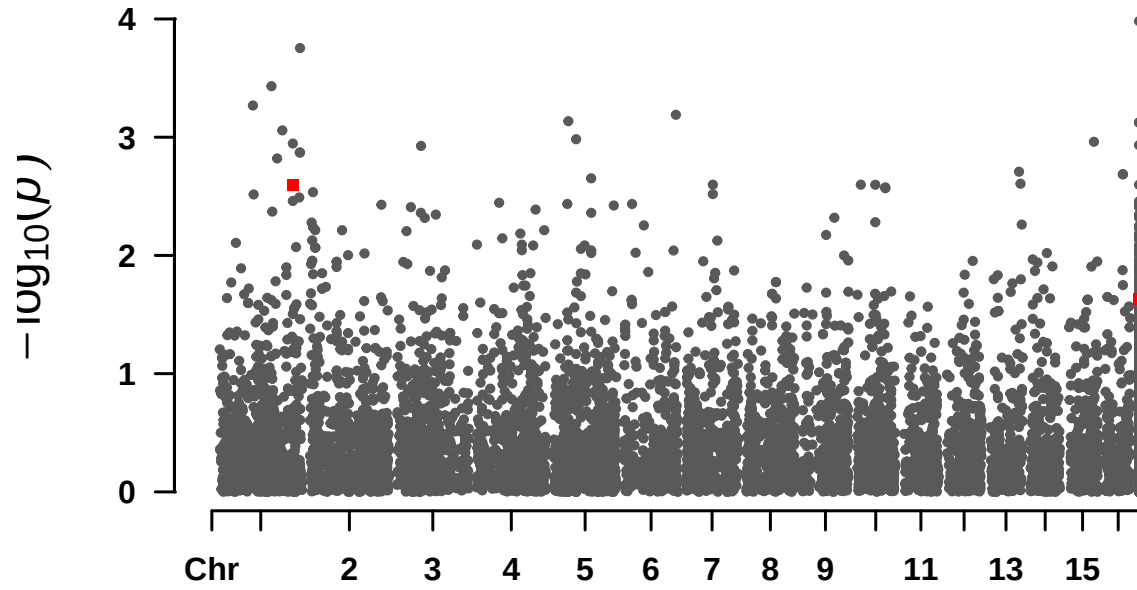


```
##
##
## [1] "=====
```

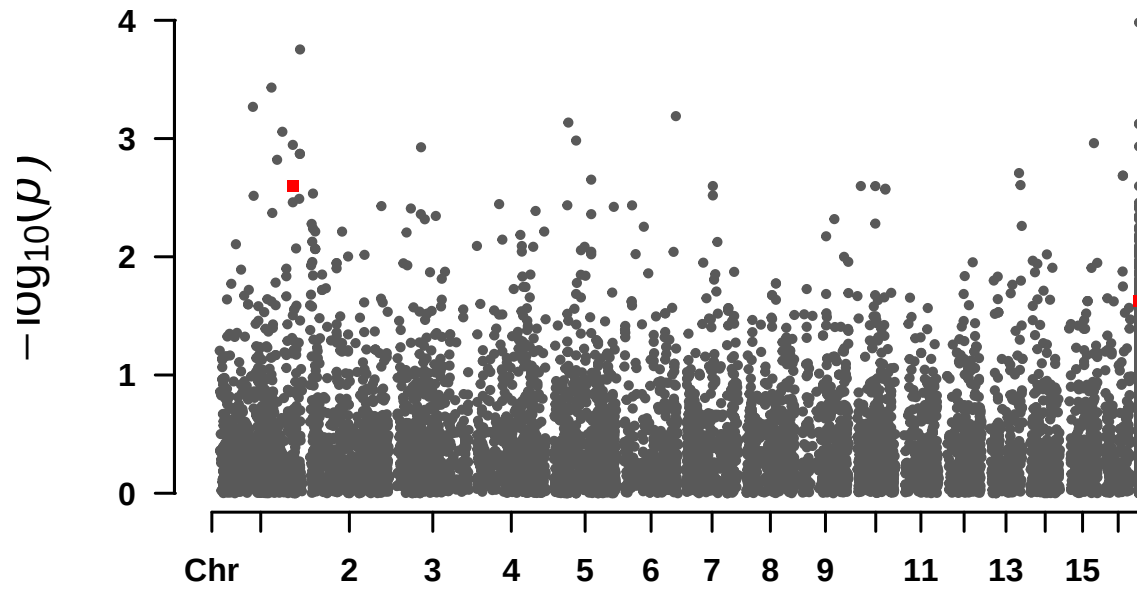
#Single trait GWAS figures - Oil palm genotypic dataset

H

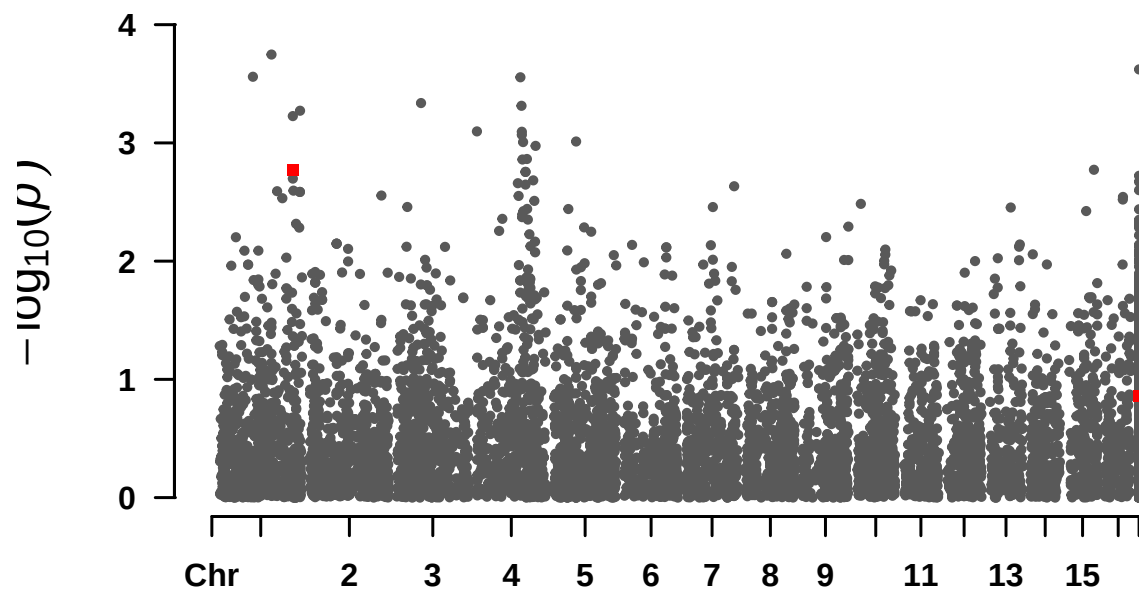
Rectangular Manhattan plotting BLINK.



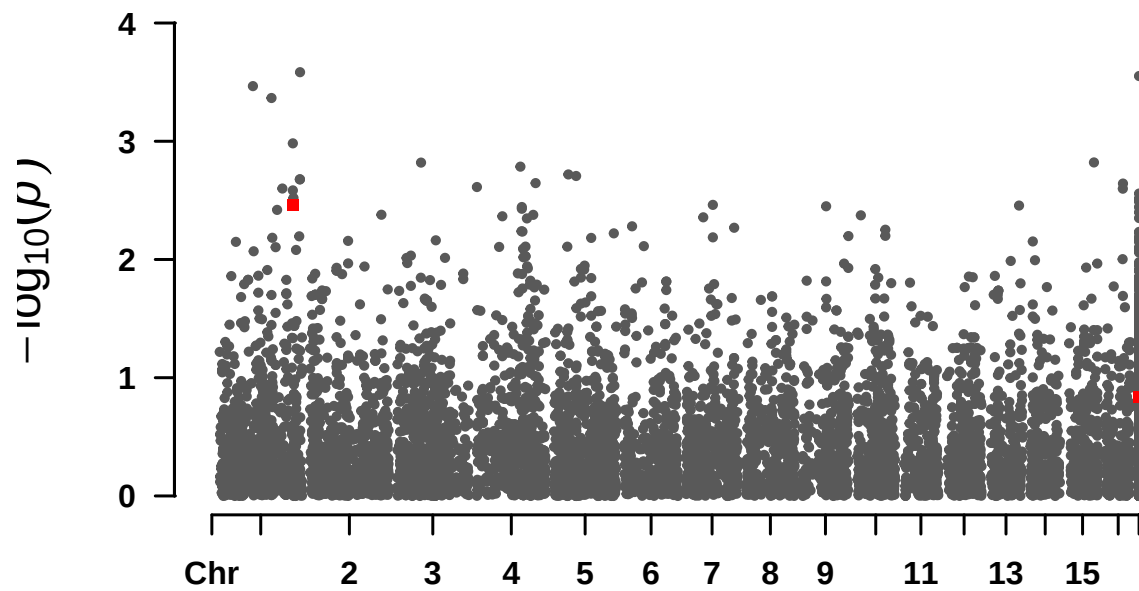
Rectangular Manhattan plotting FarmCPU.



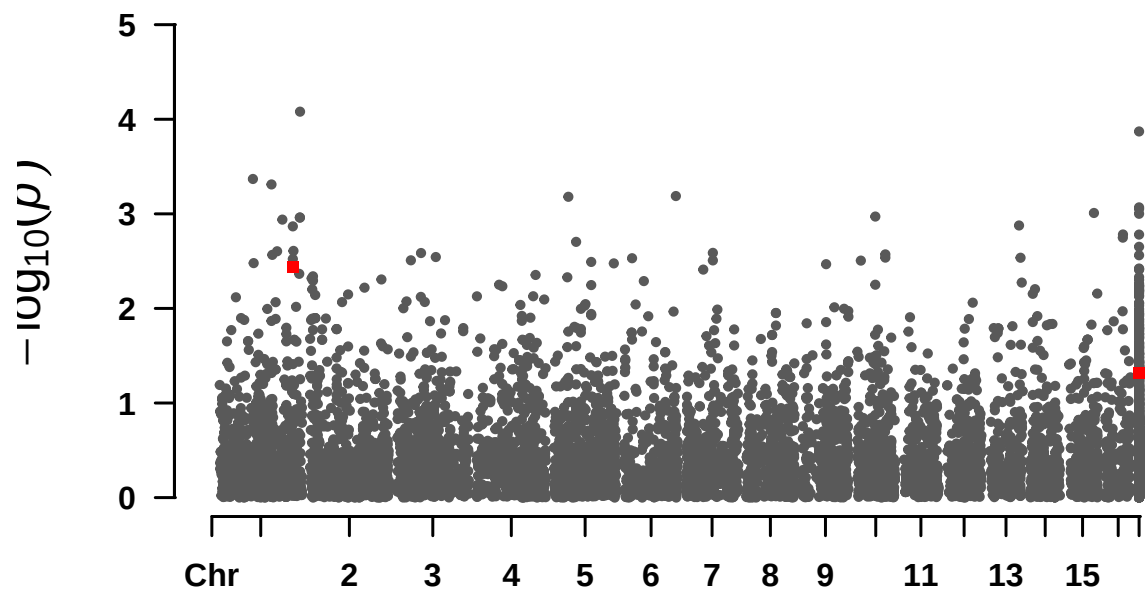
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

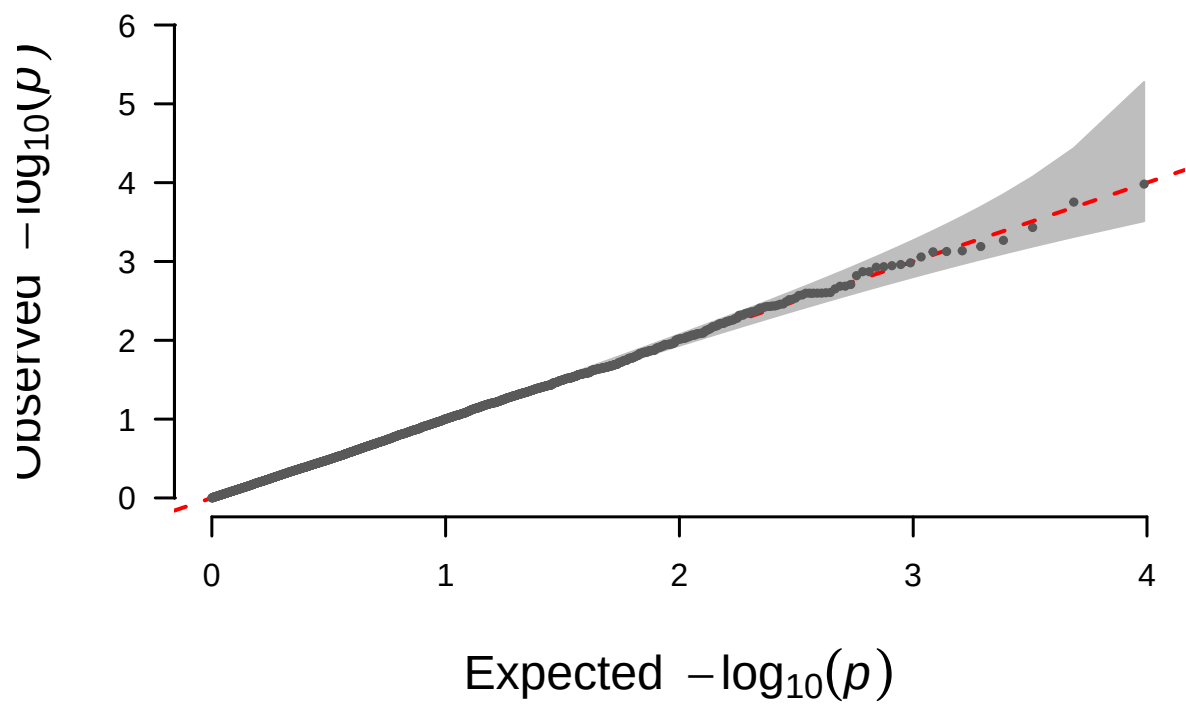


Rectangular Manhattan plotting MLMM.



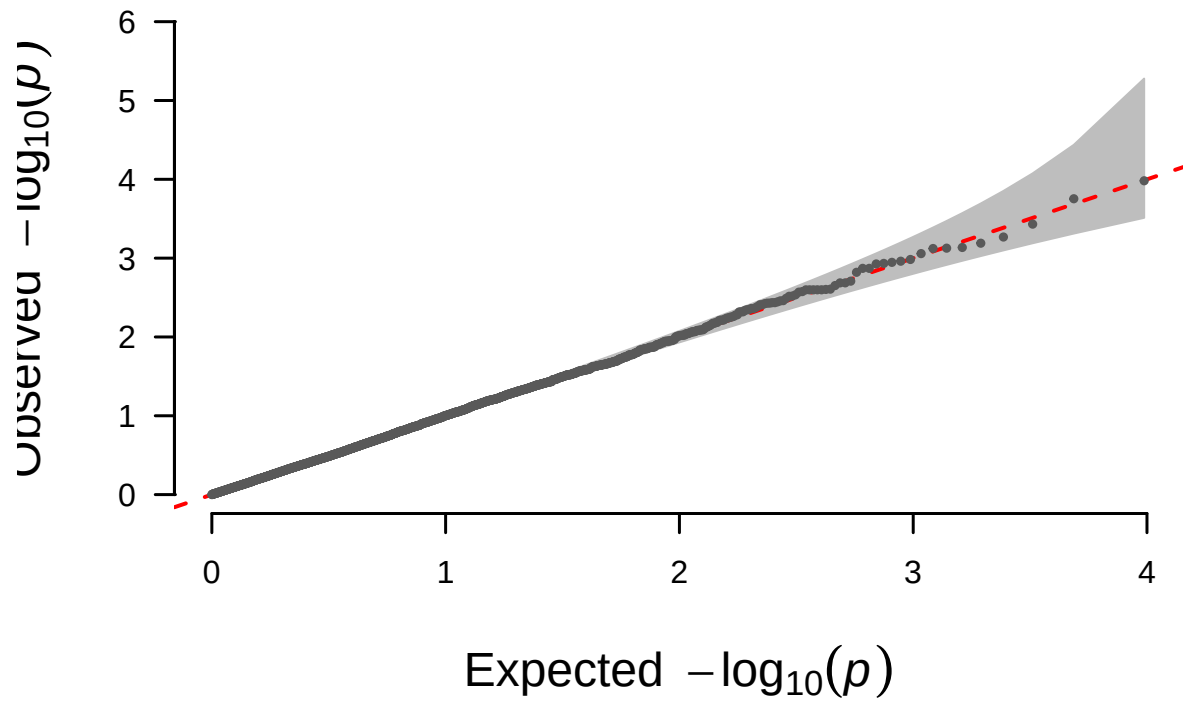
Q-Q plotting BLINK.

BLINK



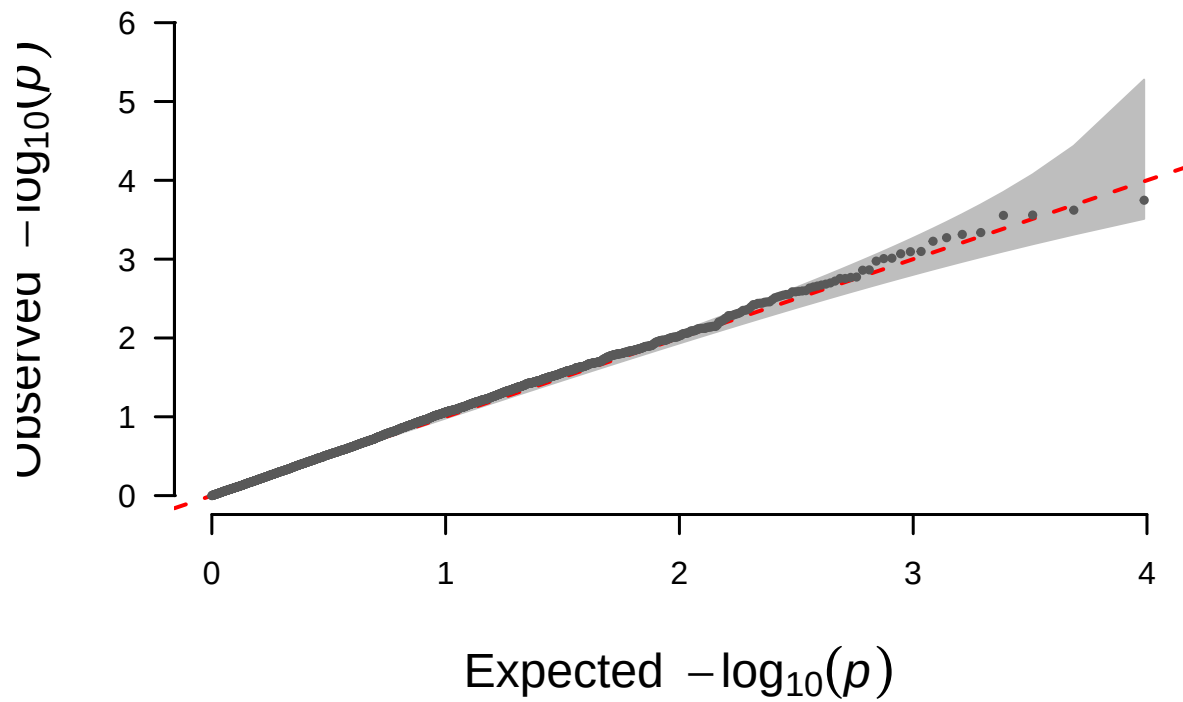
Q-Q plotting FarmCPU.

FarmCPU



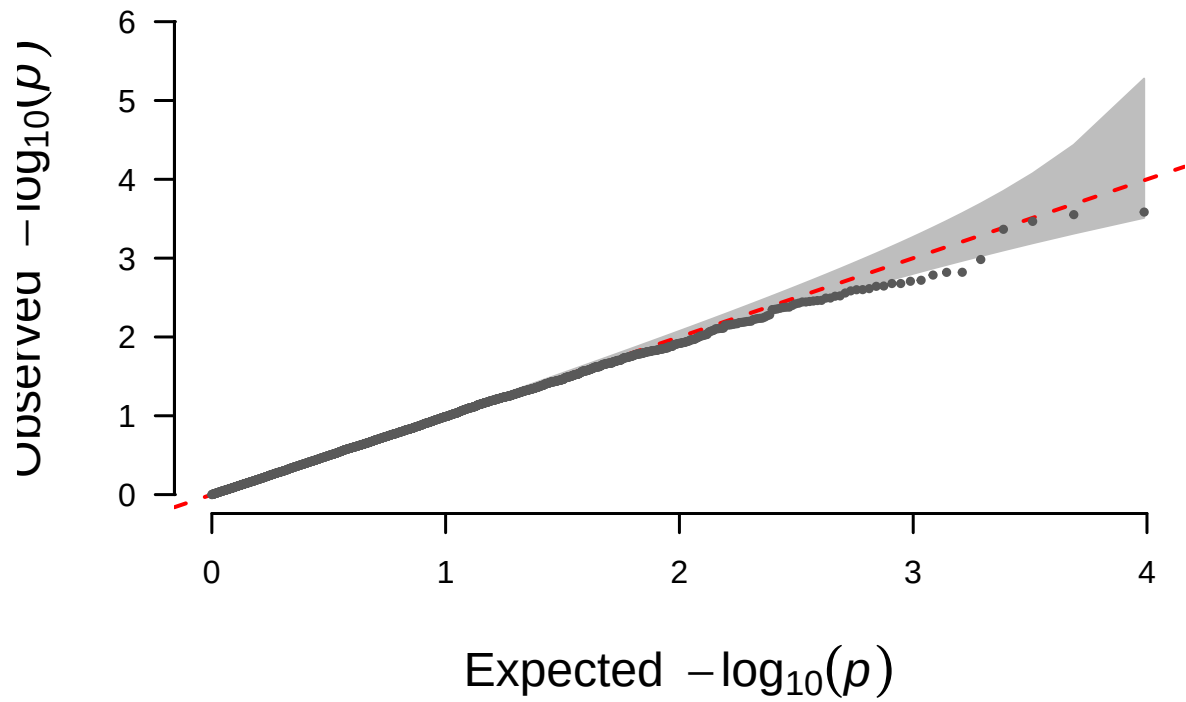
Q-Q plotting GLM.

GLM



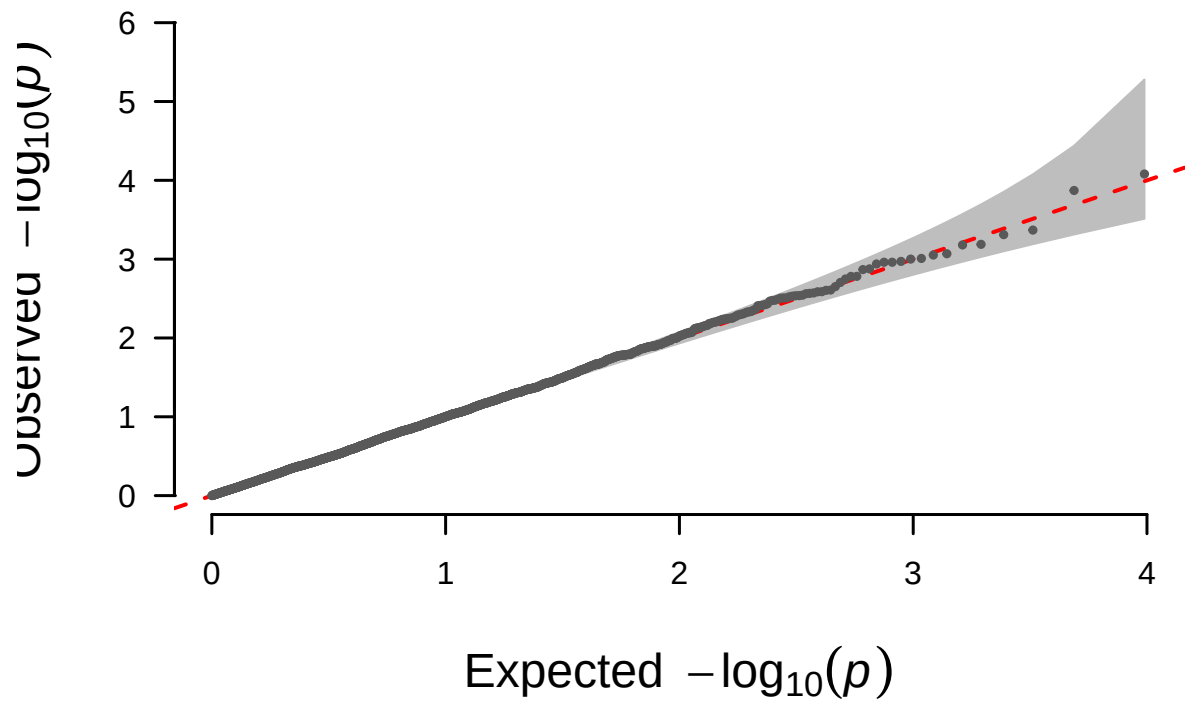
Q-Q plotting MLM.

MLM



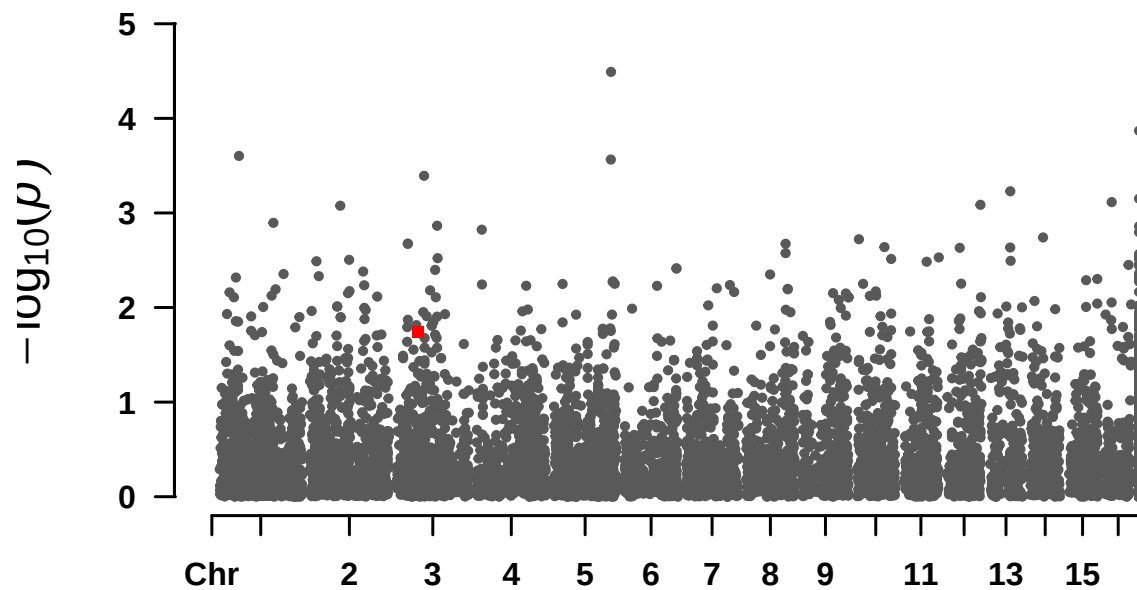
Q-Q plotting MLMM.

MLMM

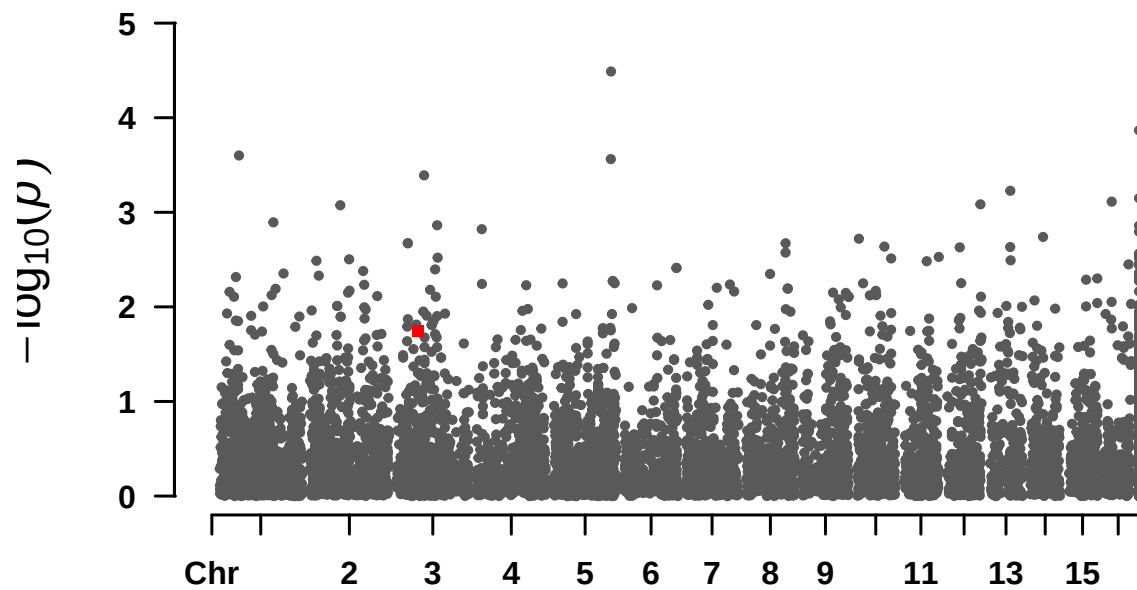


LL

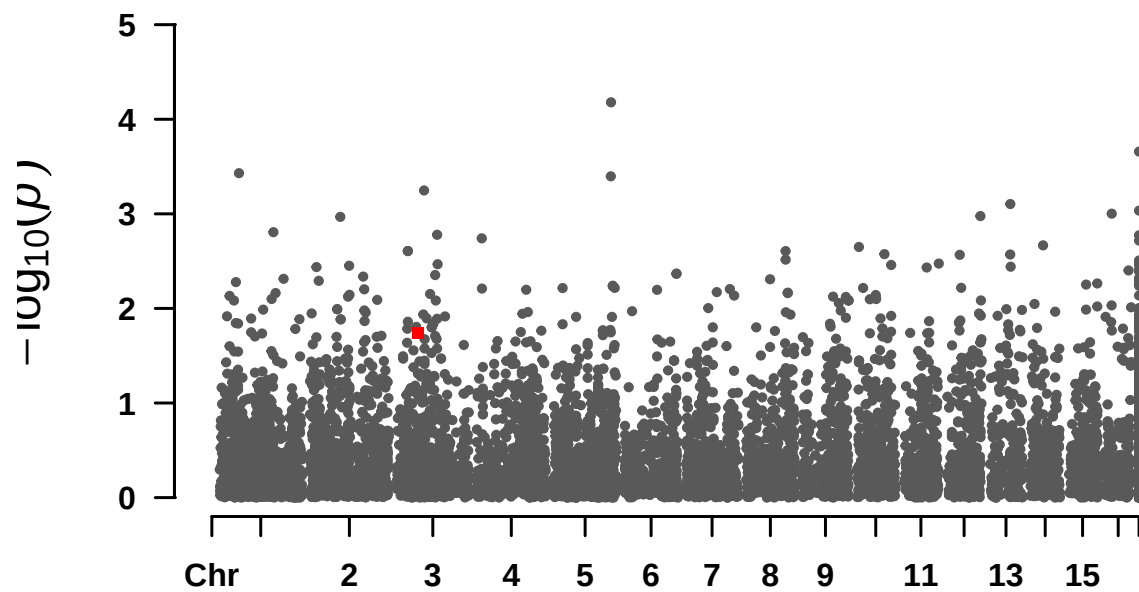
Rectangular Manhattan plotting BLINK.



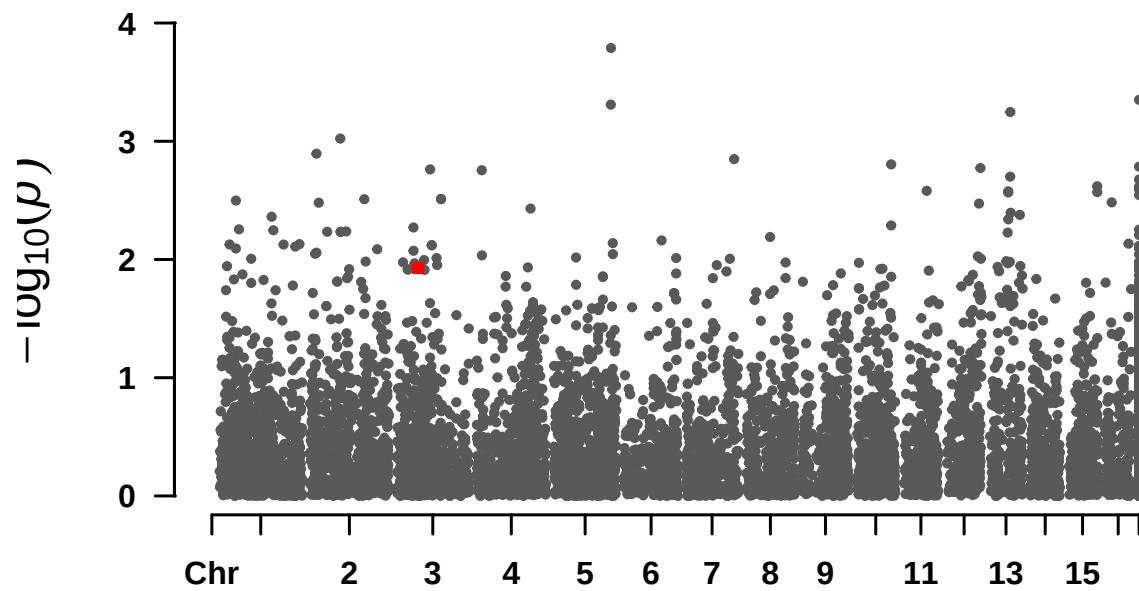
Rectangular Manhattan plotting FarmCPU.



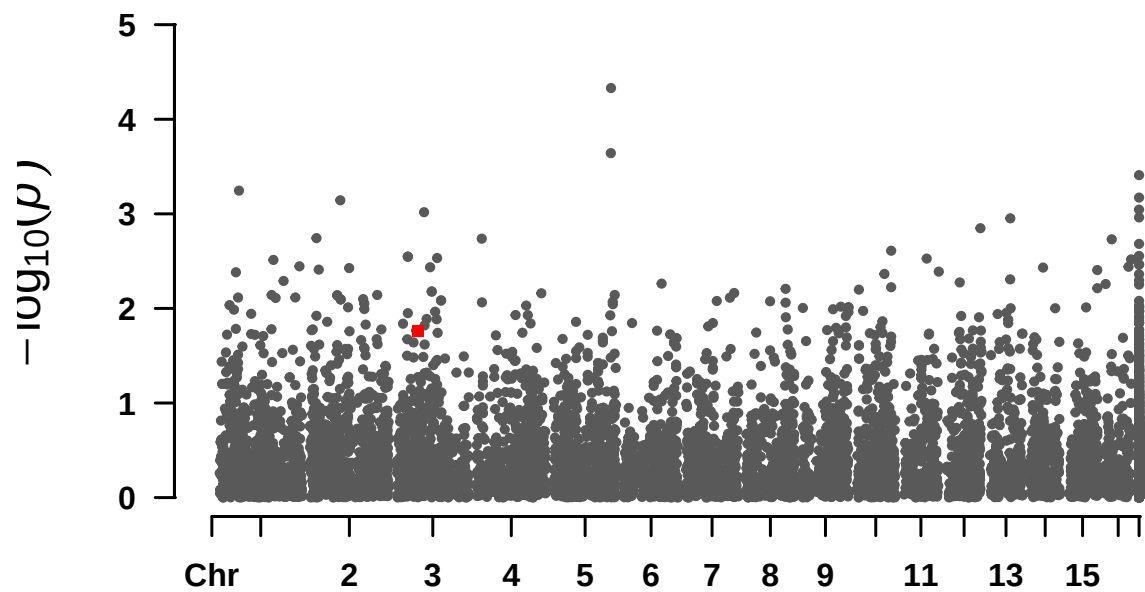
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

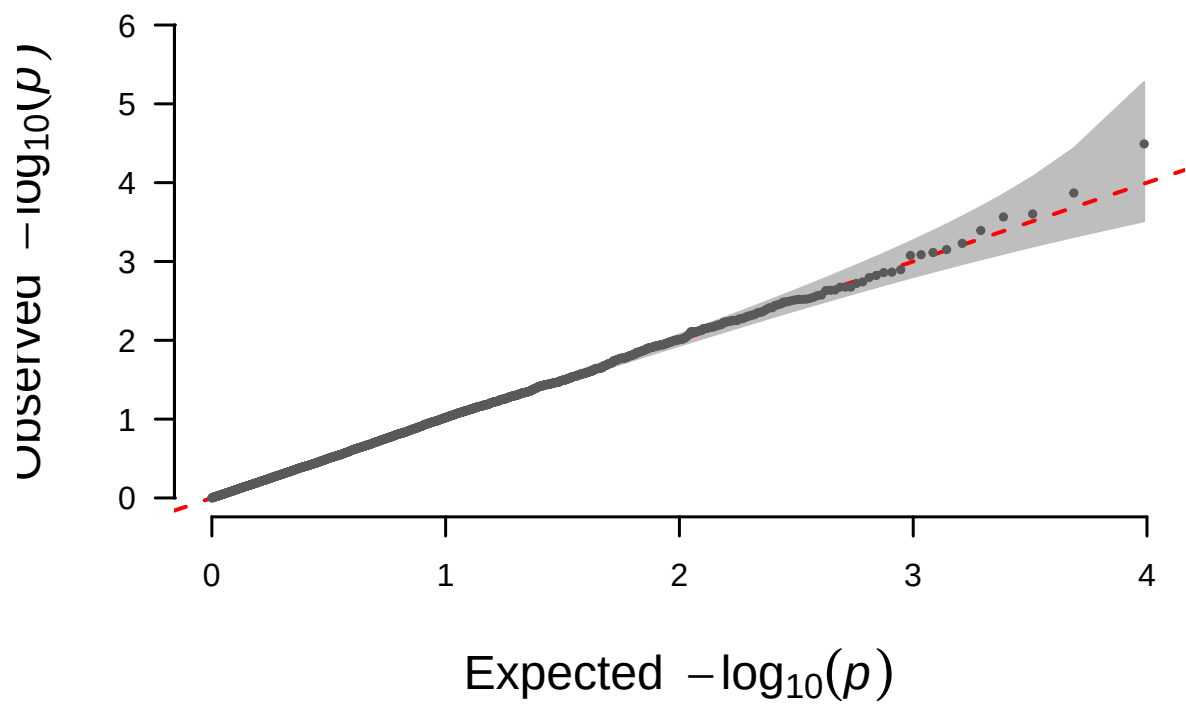


Rectangular Manhattan plotting MLMM.



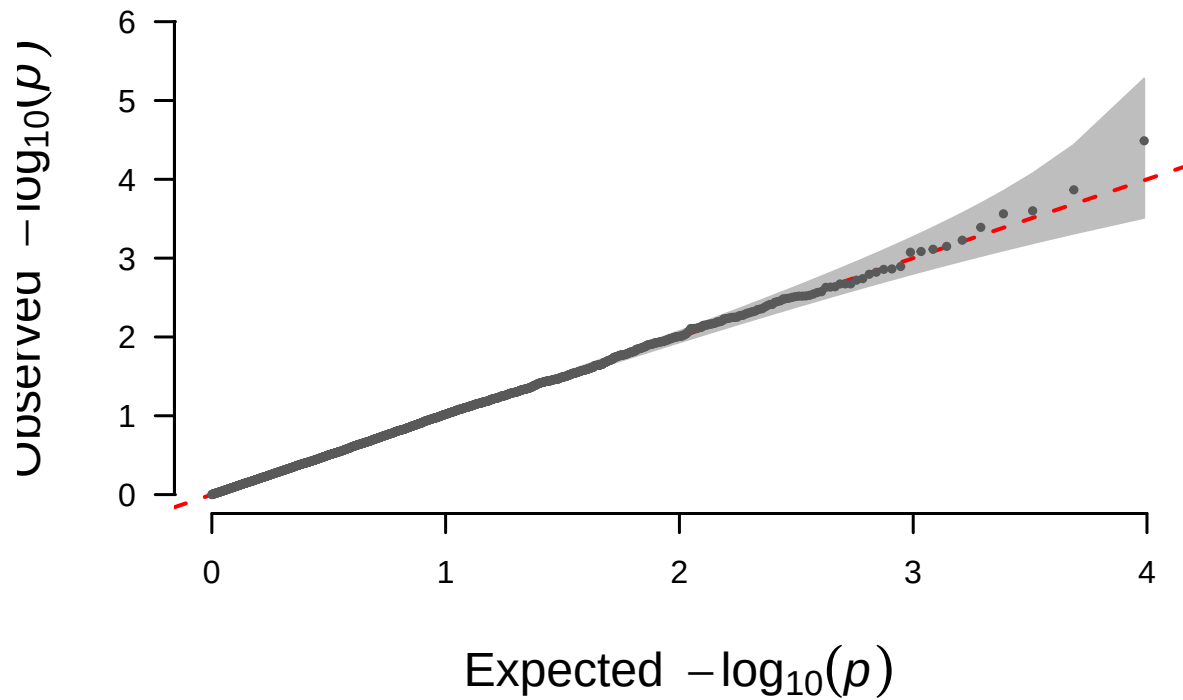
Q-Q plotting BLINK.

BLINK



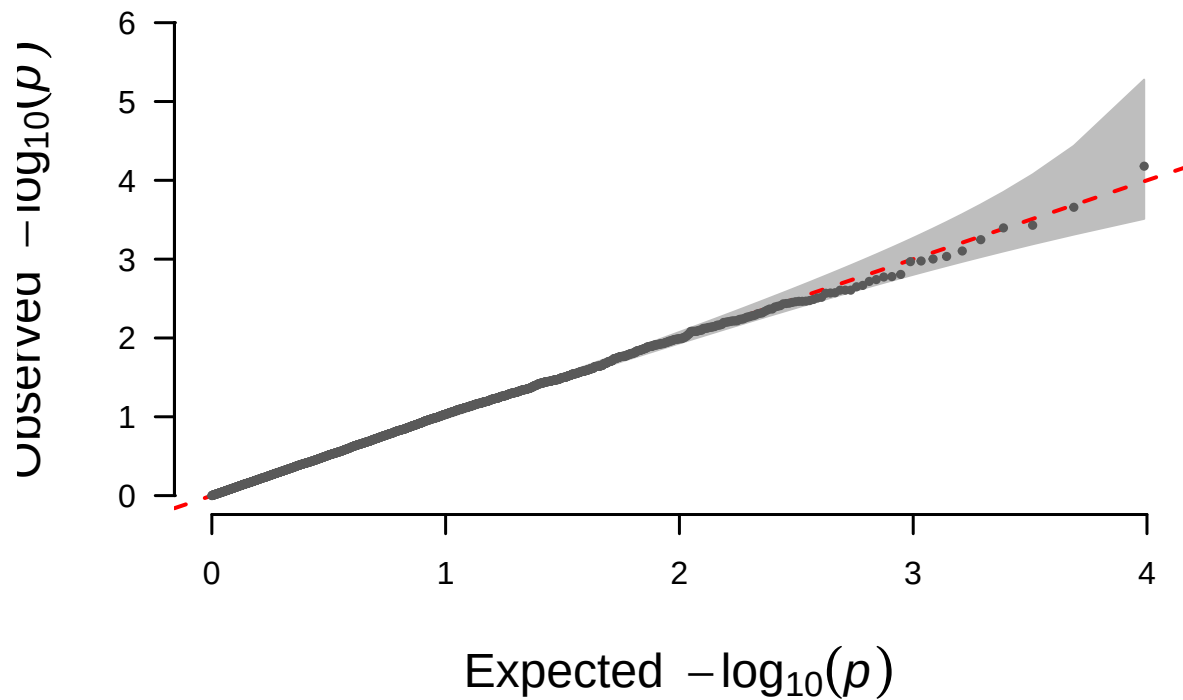
Q-Q plotting FarmCPU.

FarmCPU



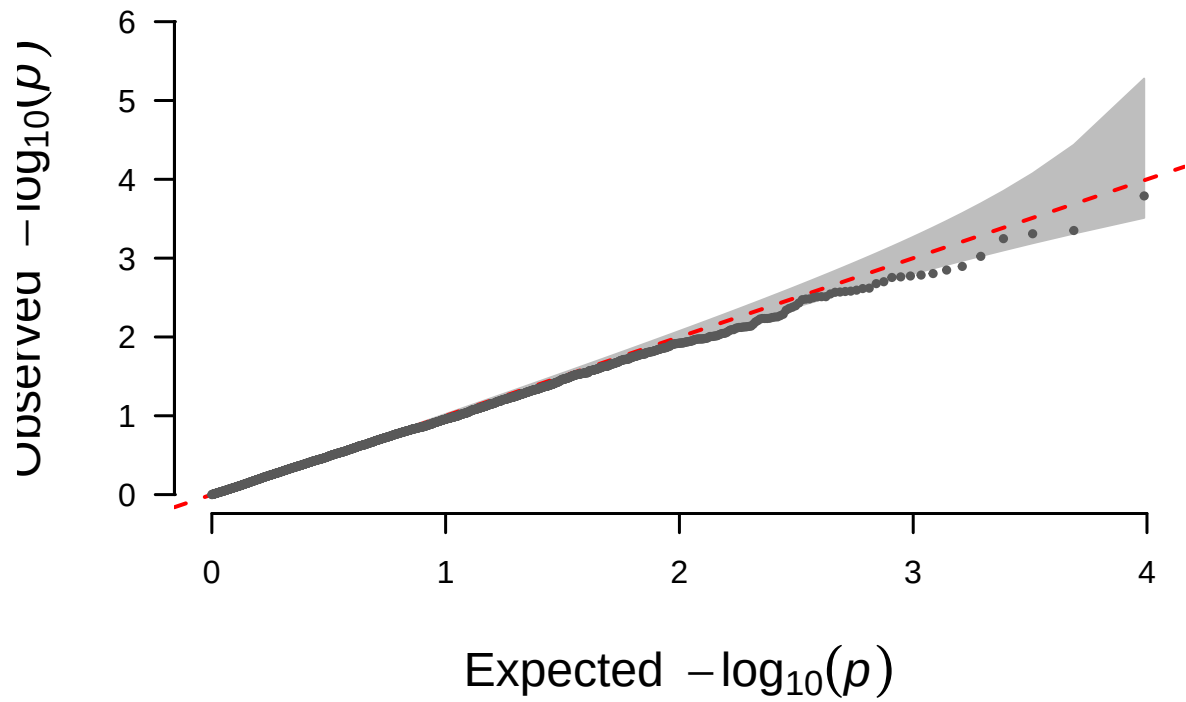
Q-Q plotting GLM.

GLM



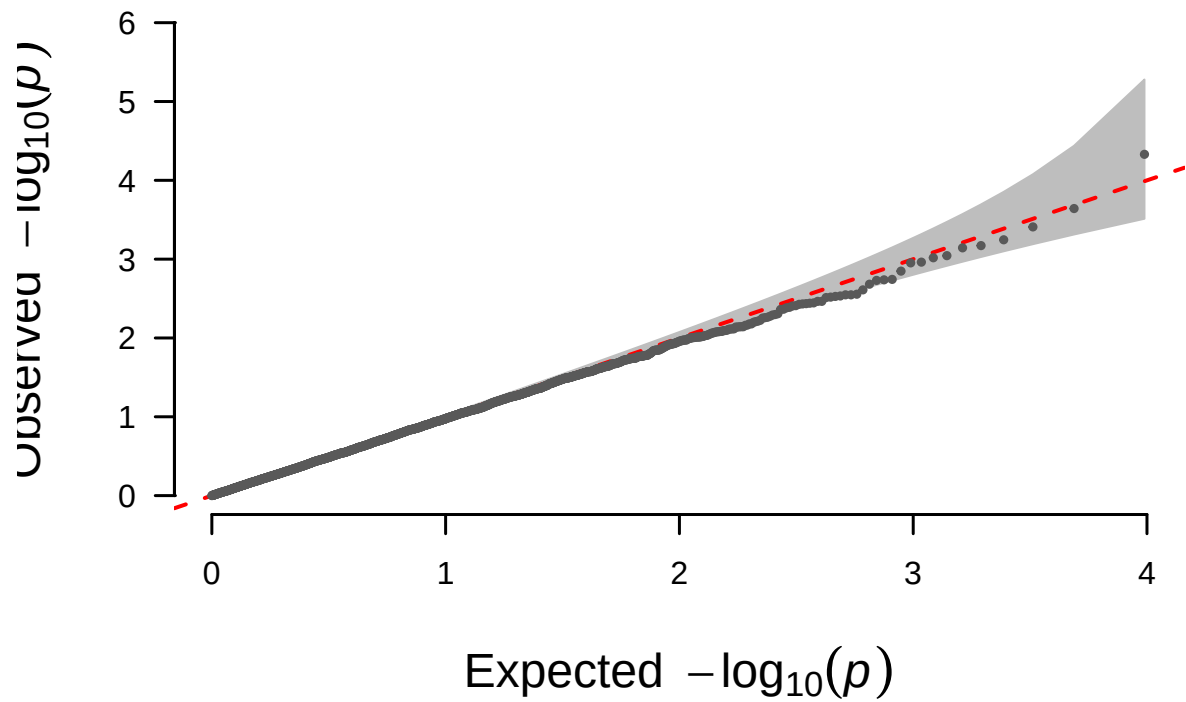
Q-Q plotting MLM.

MLM



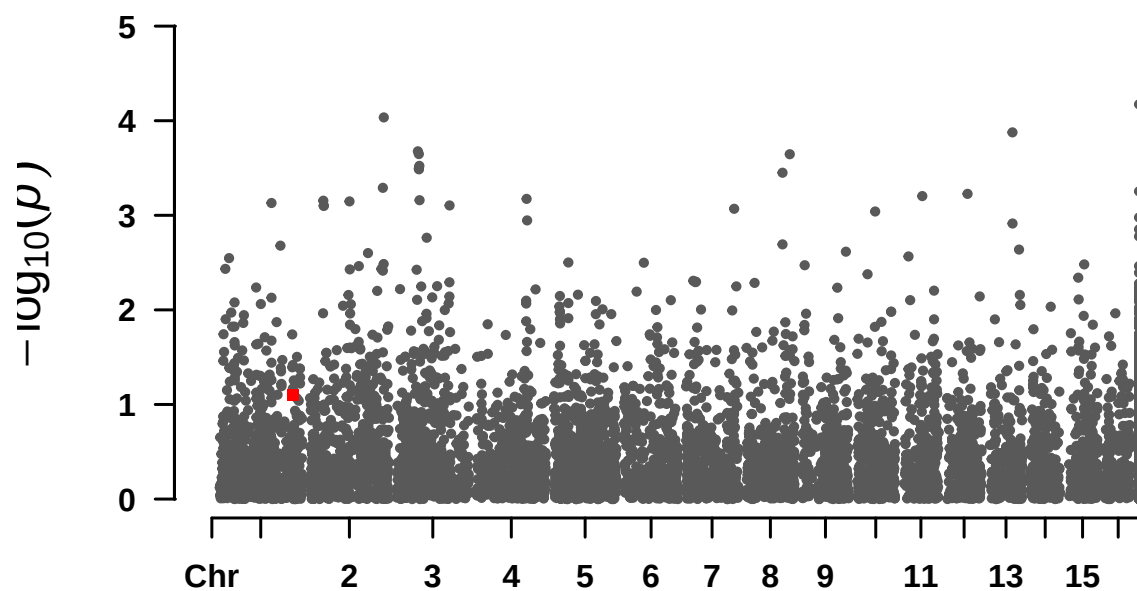
Q-Q plotting MLMM.

MLMM

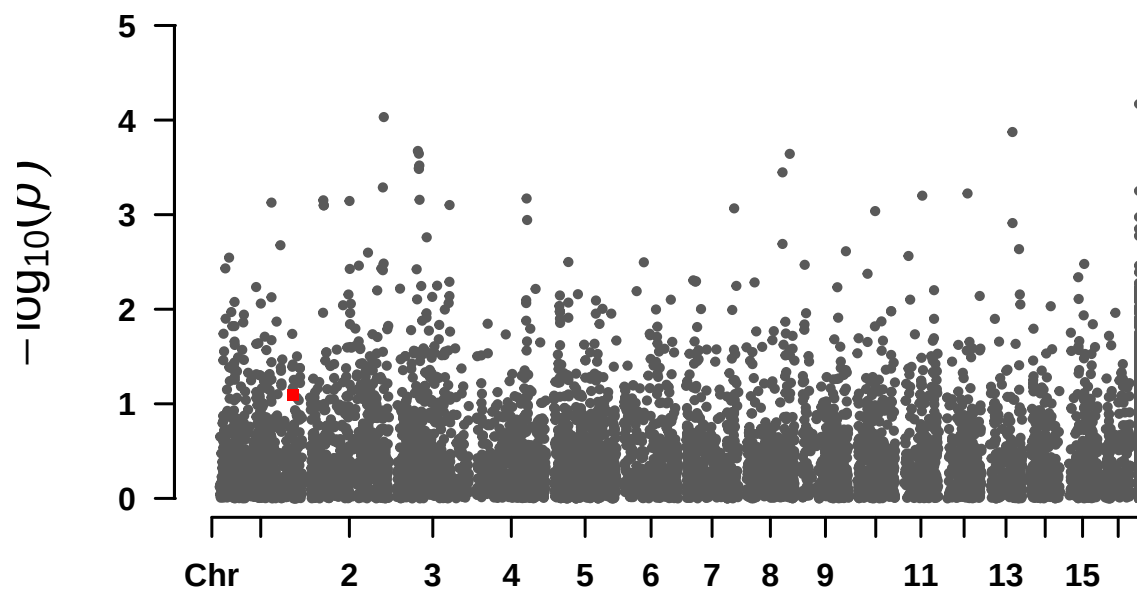


DBH

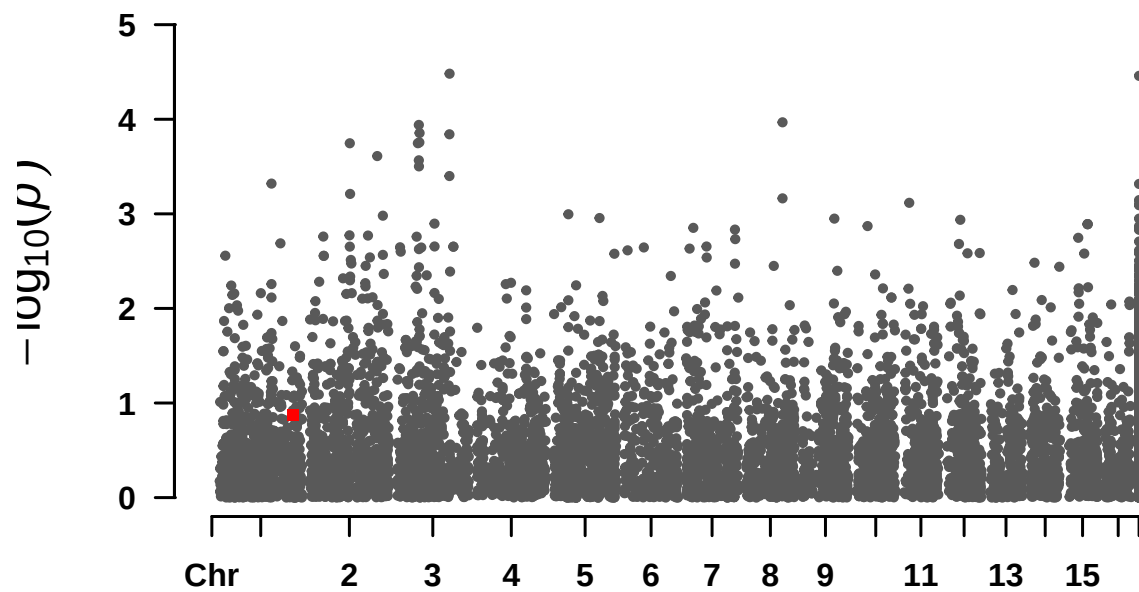
Rectangular Manhattan plotting BLINK.



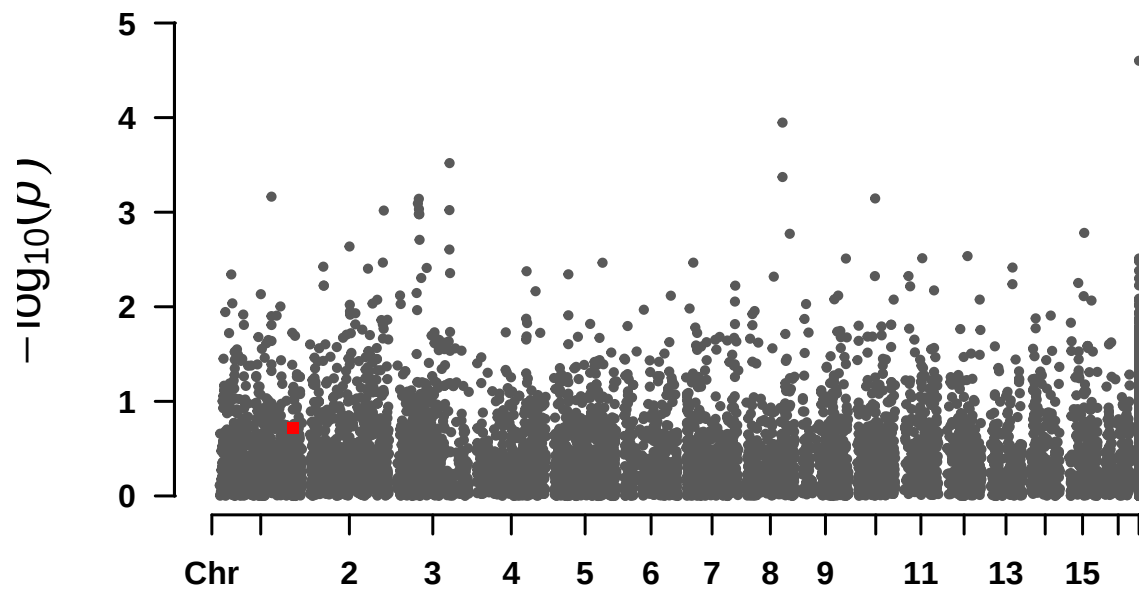
Rectangular Manhattan plotting FarmCPU.



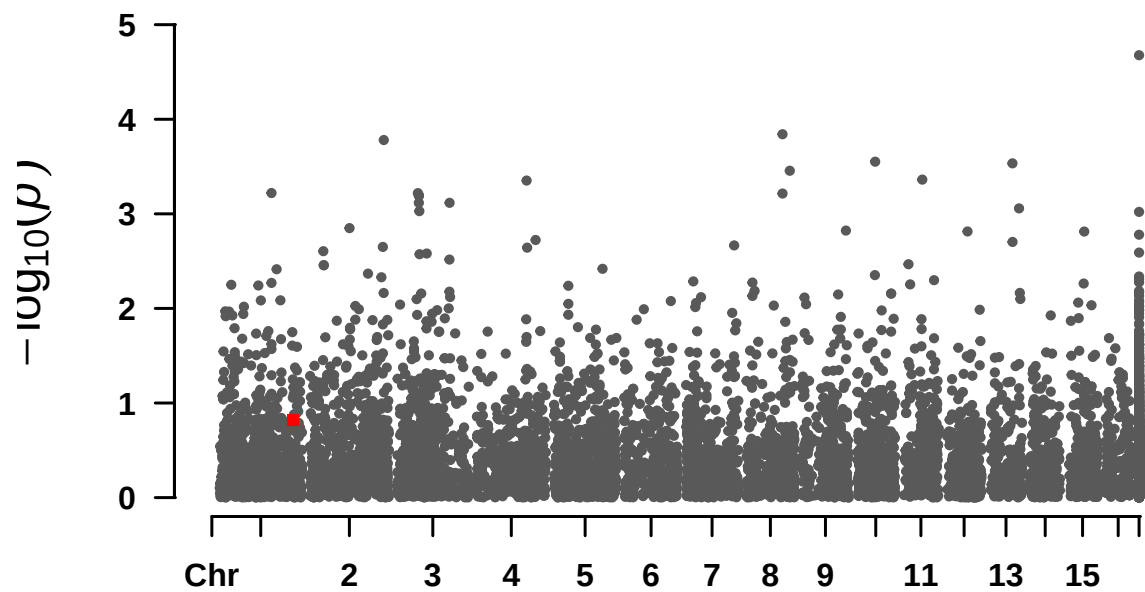
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

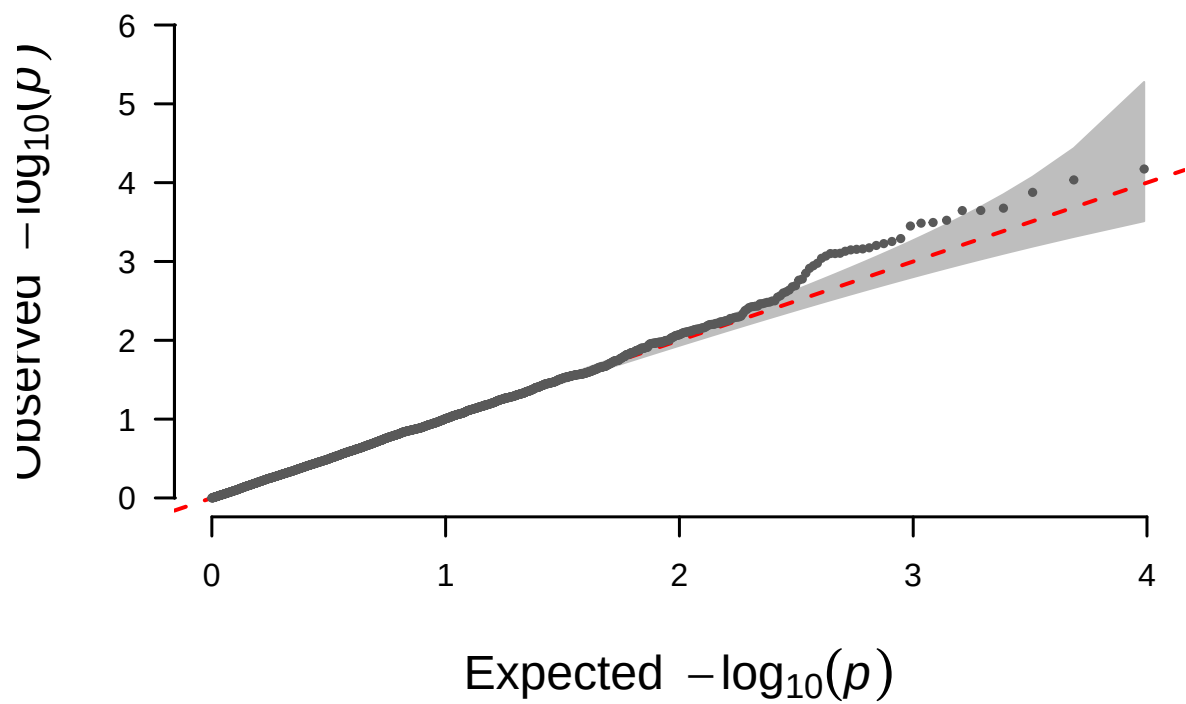


Rectangular Manhattan plotting MLMM.



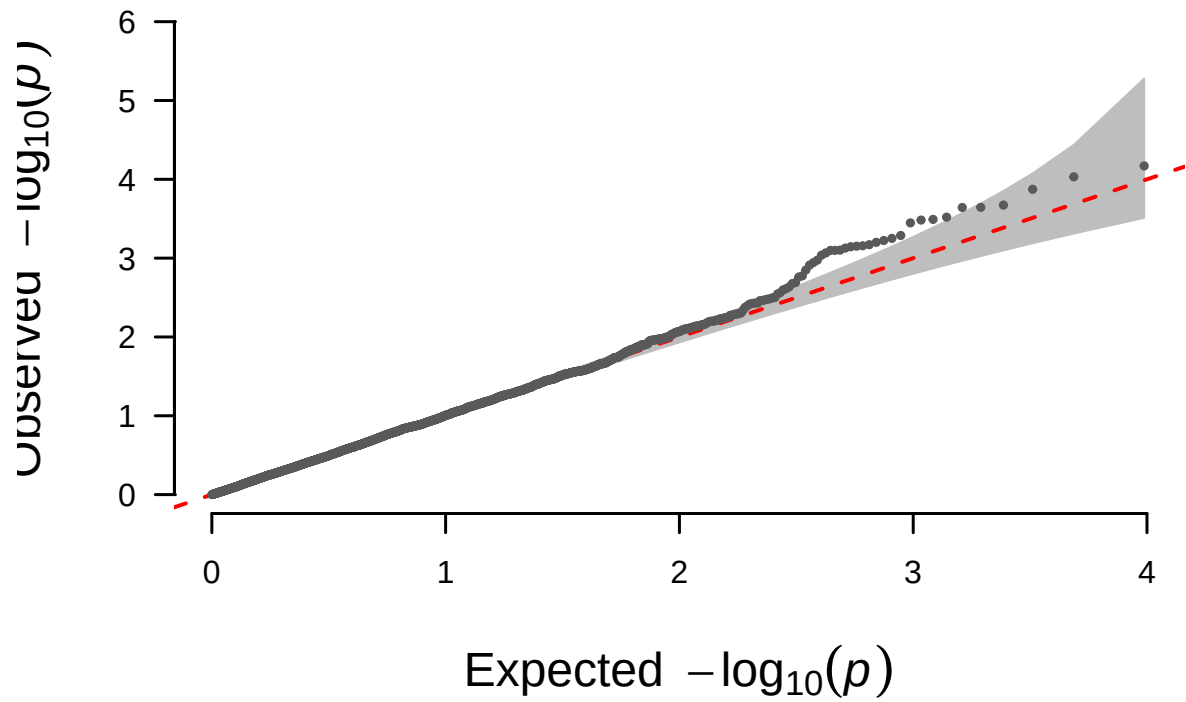
Q-Q plotting BLINK.

BLINK



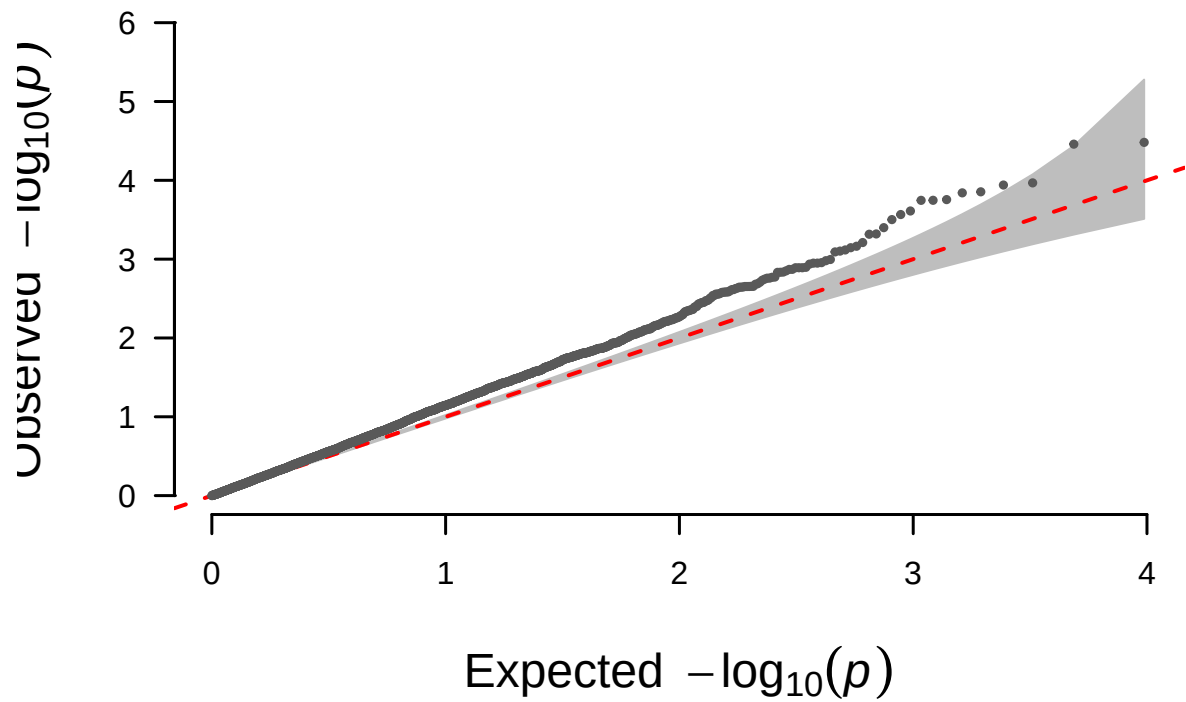
Q-Q plotting FarmCPU.

FarmCPU



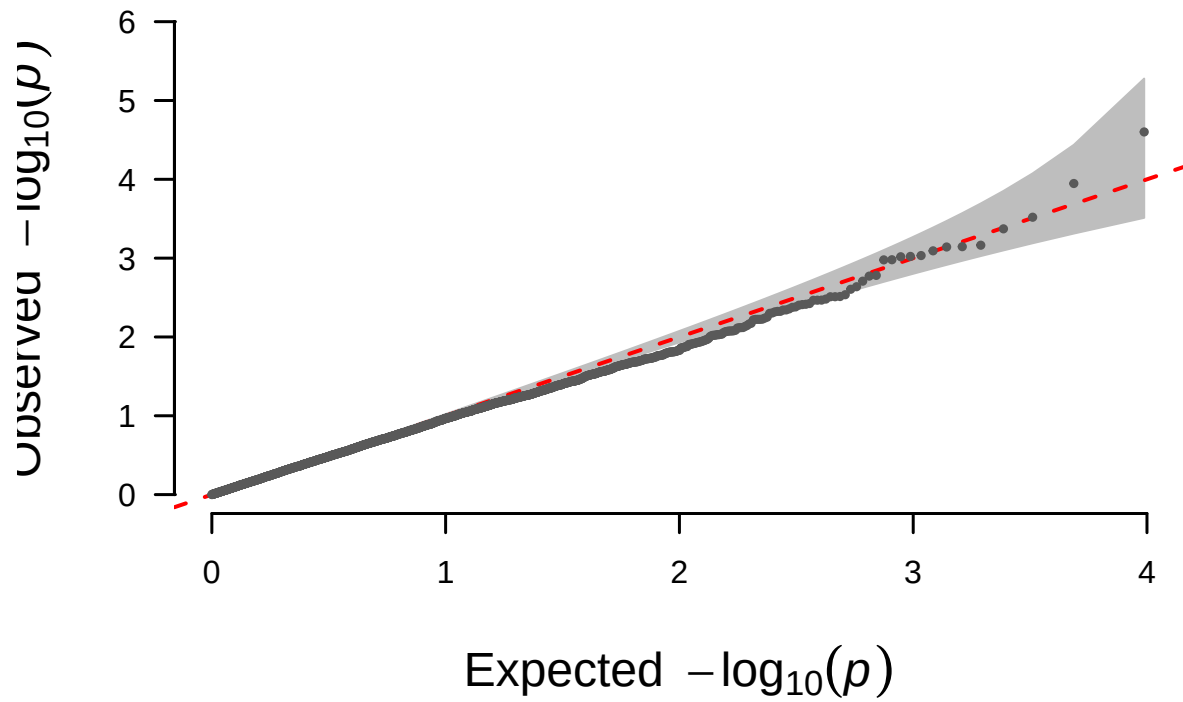
Q-Q plotting GLM.

GLM



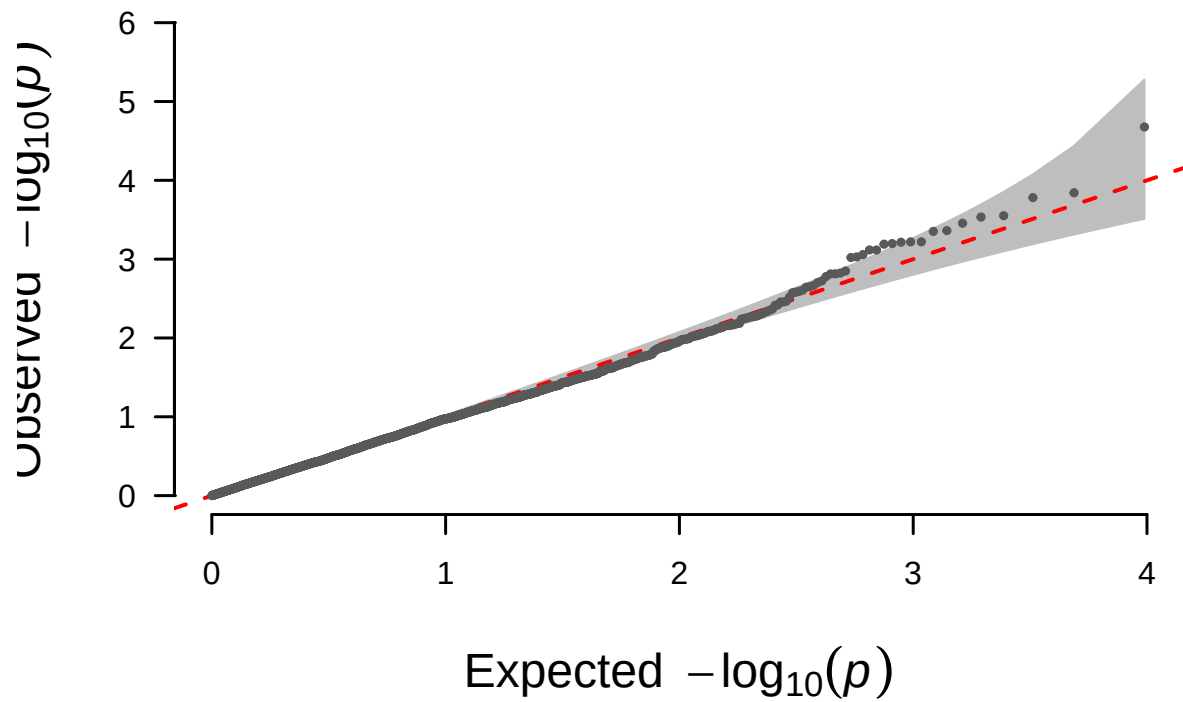
Q-Q plotting MLM.

MLM



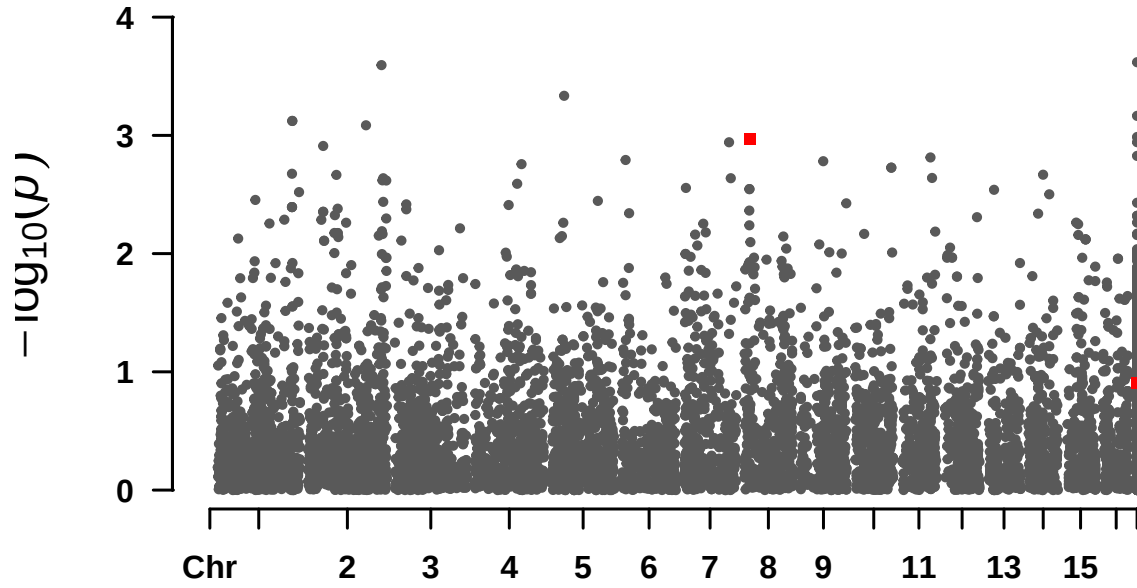
Q-Q plotting MLMM.

MLMM

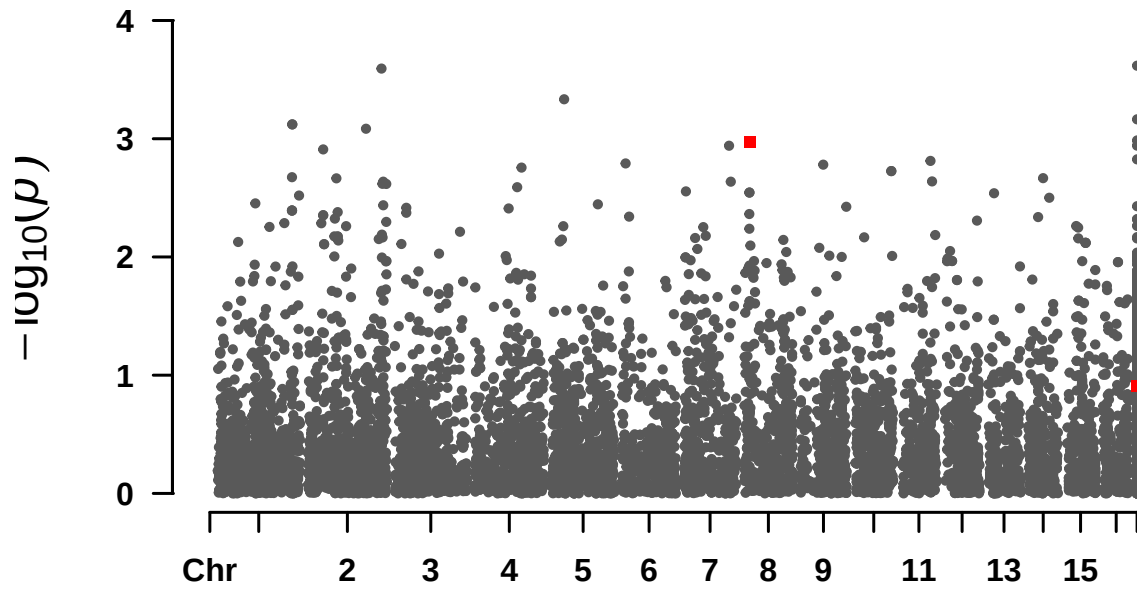


HFM

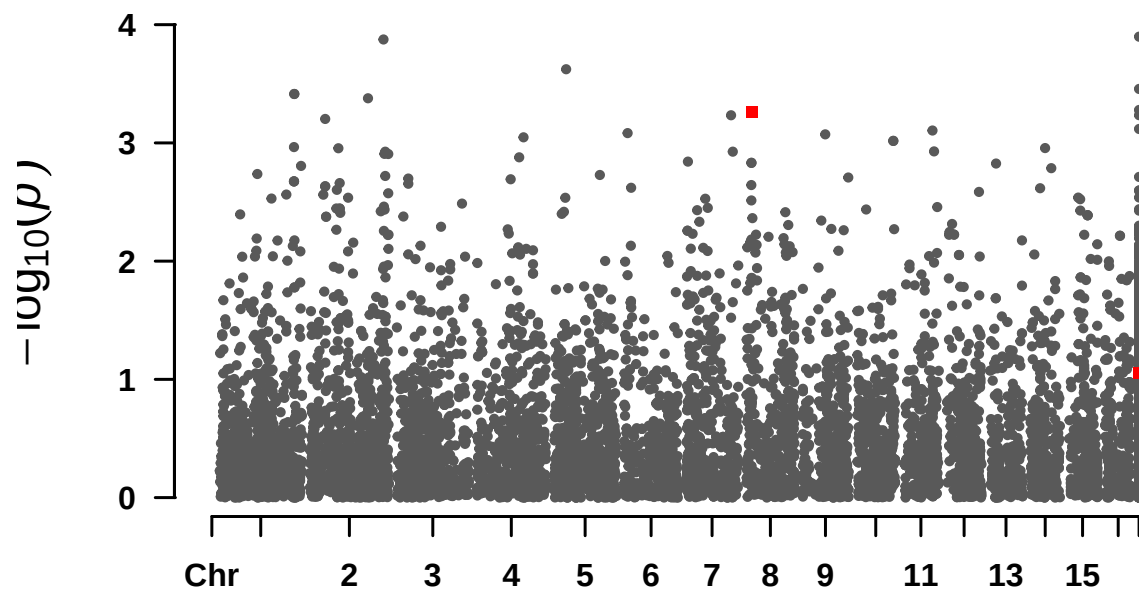
Rectangular Manhattan plotting BLINK.



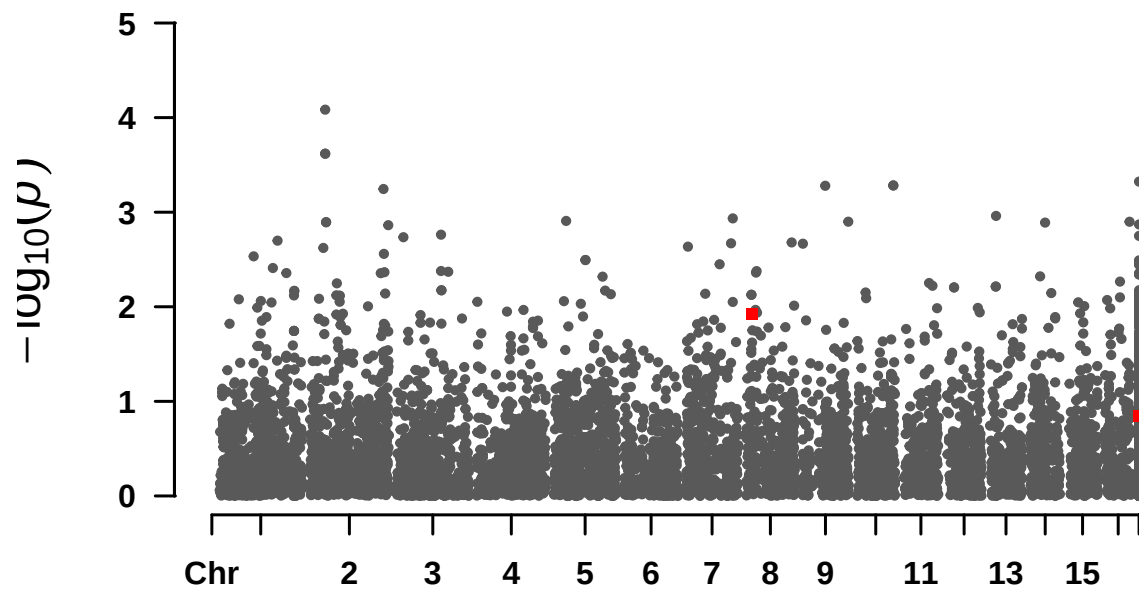
Rectangular Manhattan plotting FarmCPU.



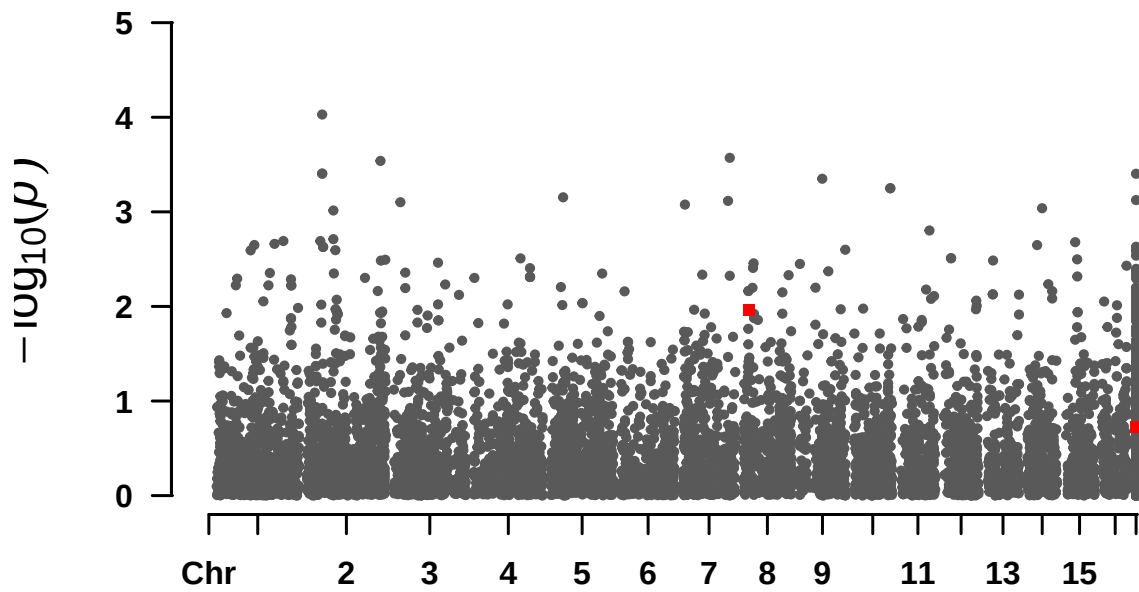
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

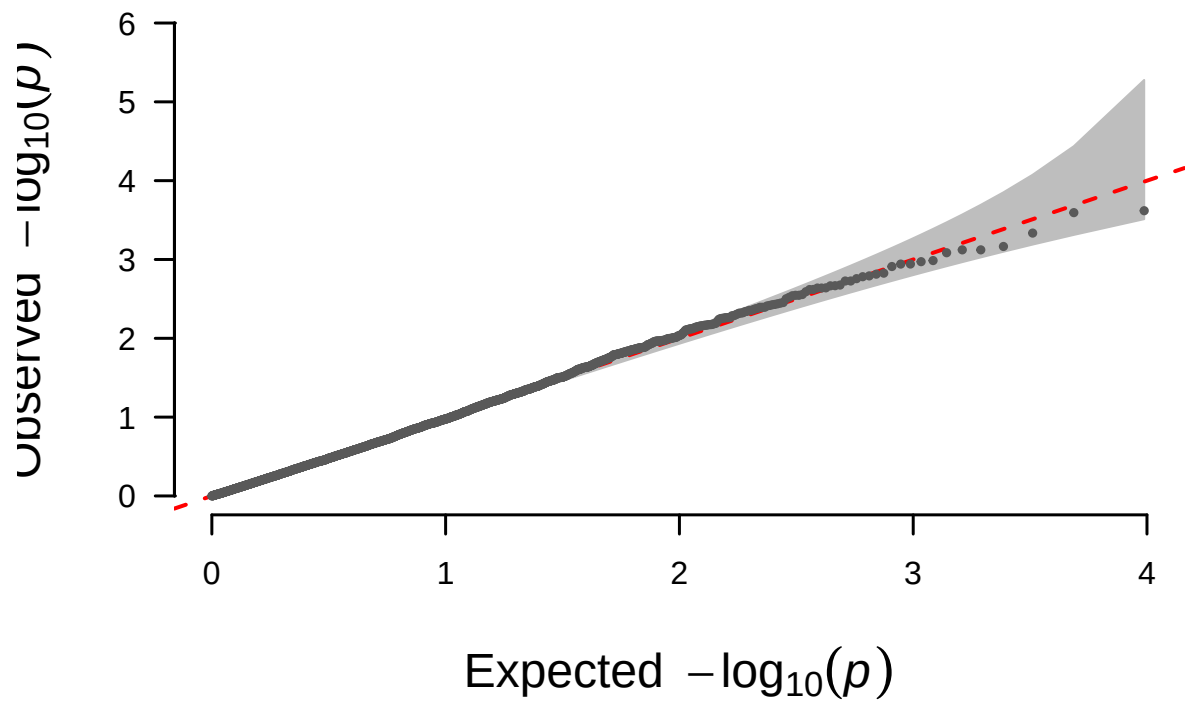


Rectangular Manhattan plotting MLMM.



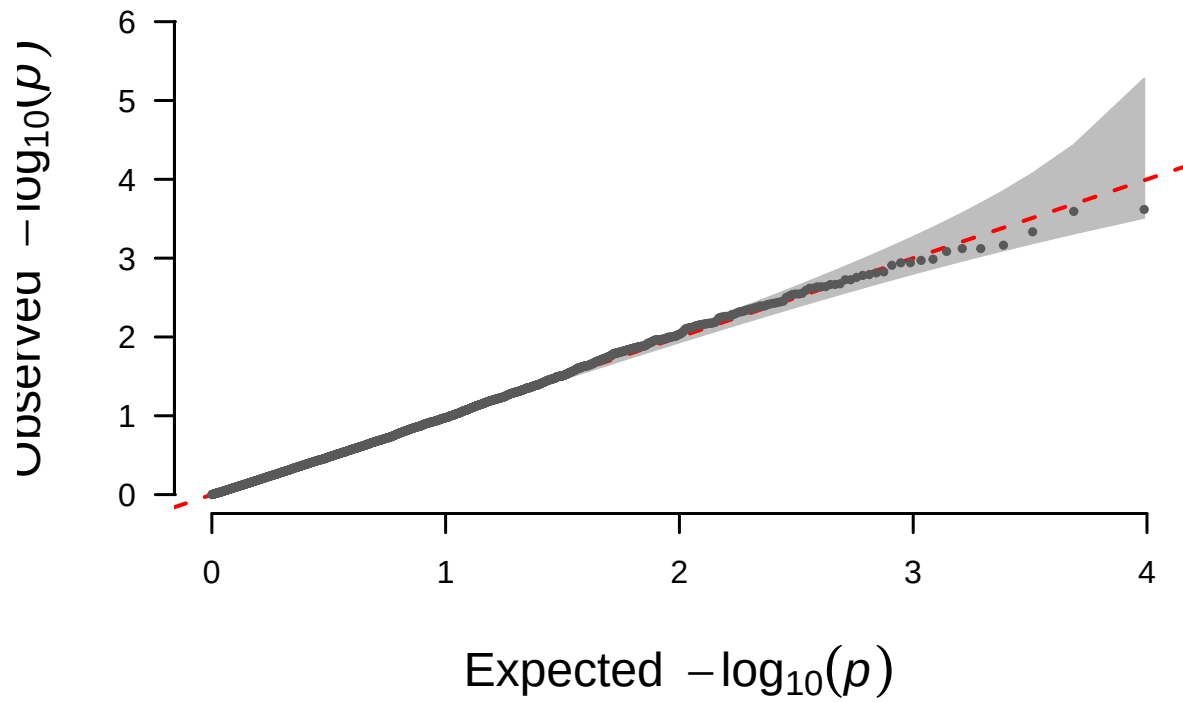
Q-Q plotting BLINK.

BLINK



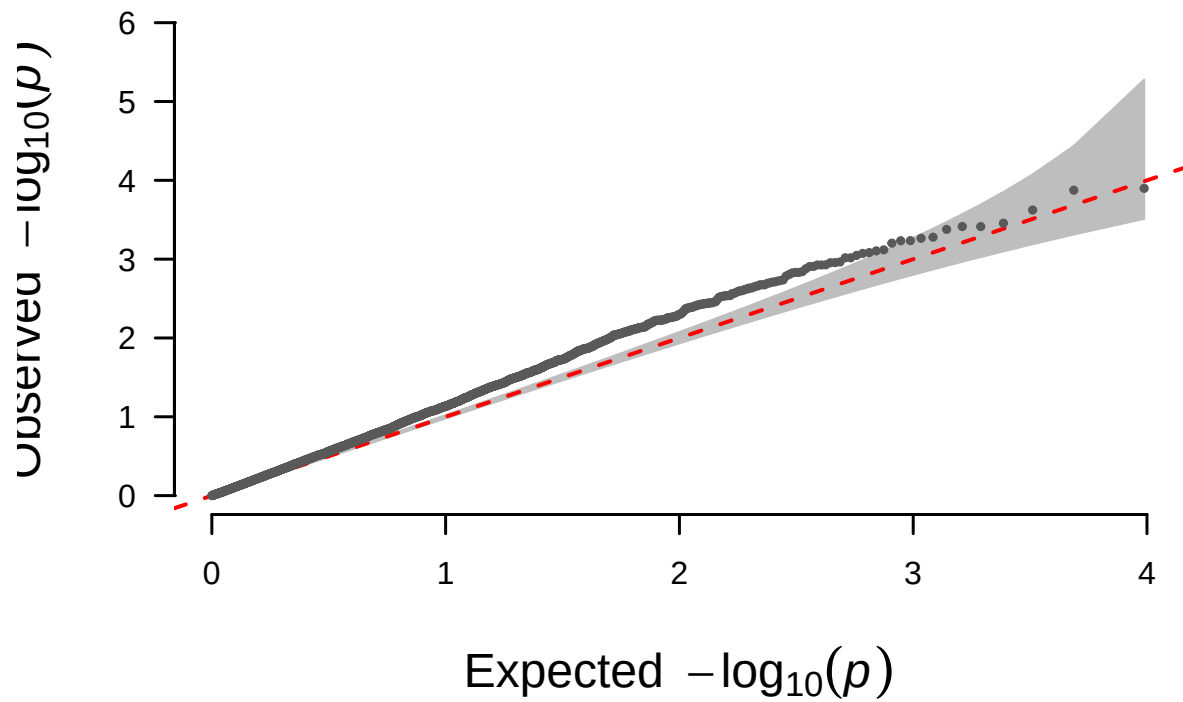
Q-Q plotting FarmCPU.

FarmCPU



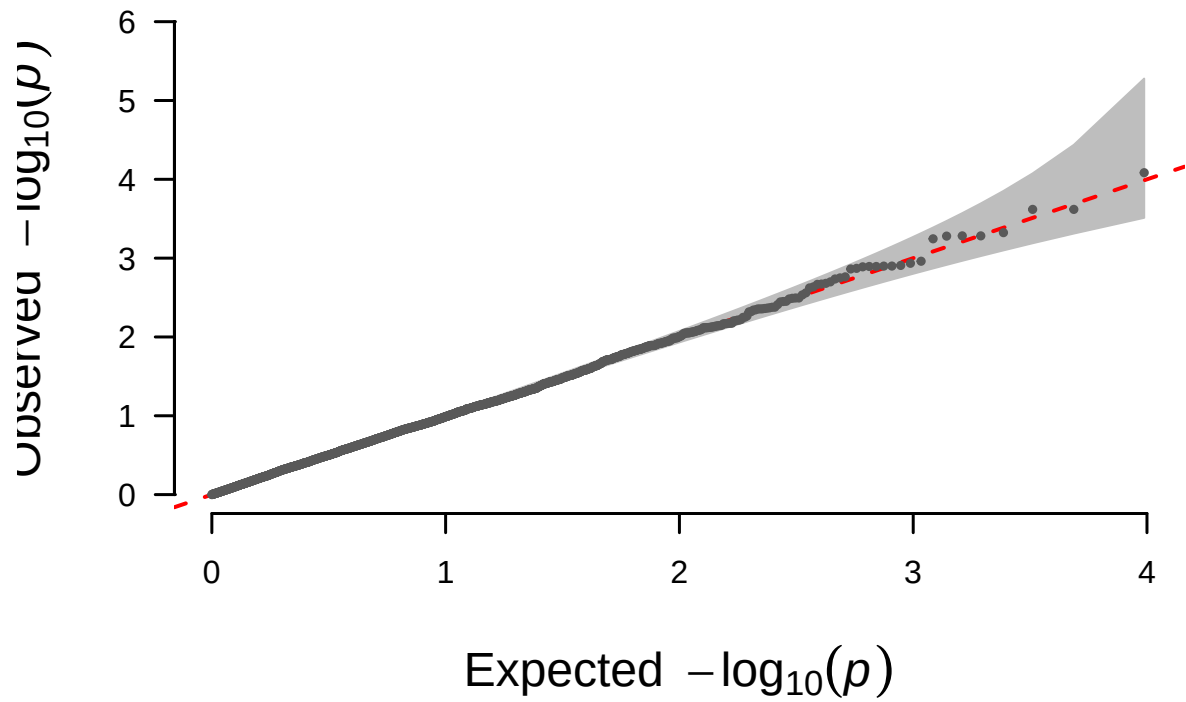
Q-Q plotting GLM.

GLM



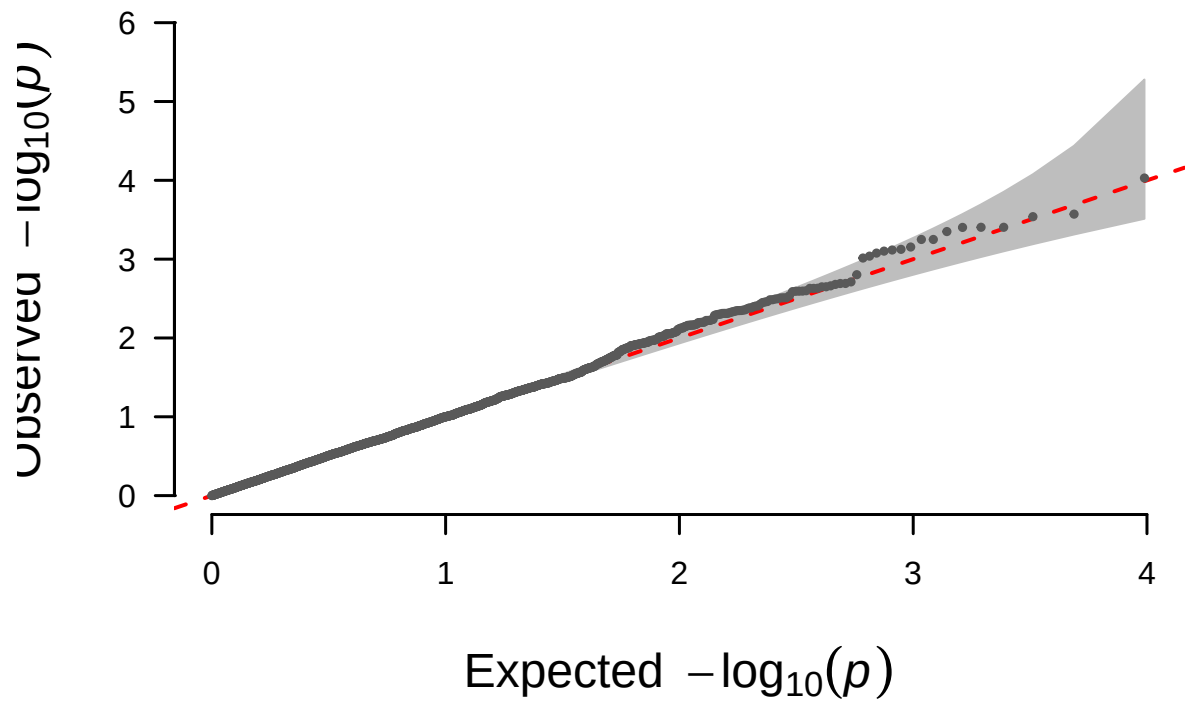
Q-Q plotting MLM.

MLM



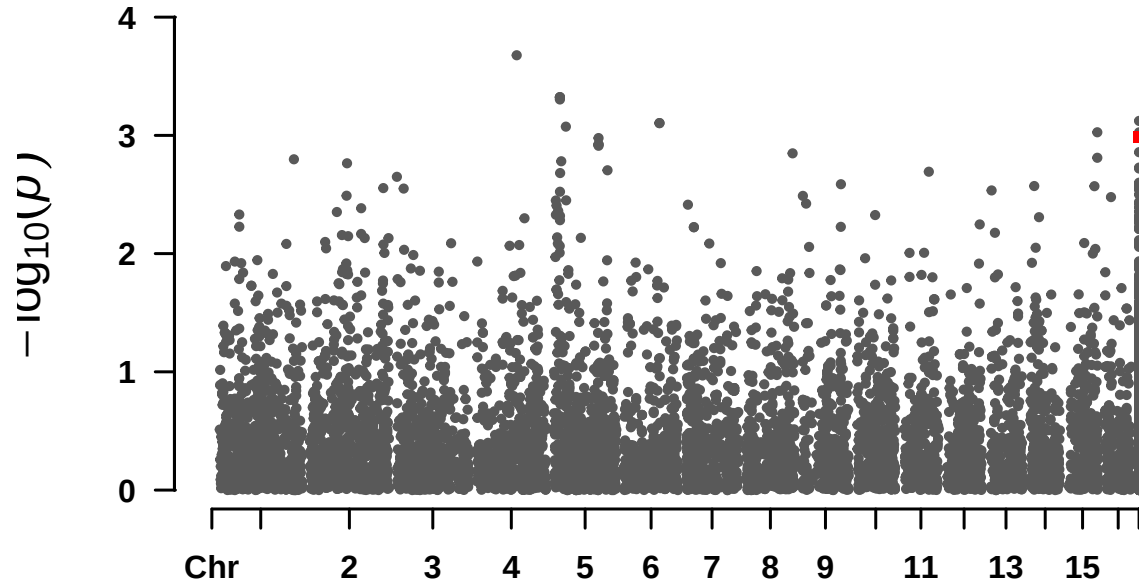
Q-Q plotting MLMM.

MLMM

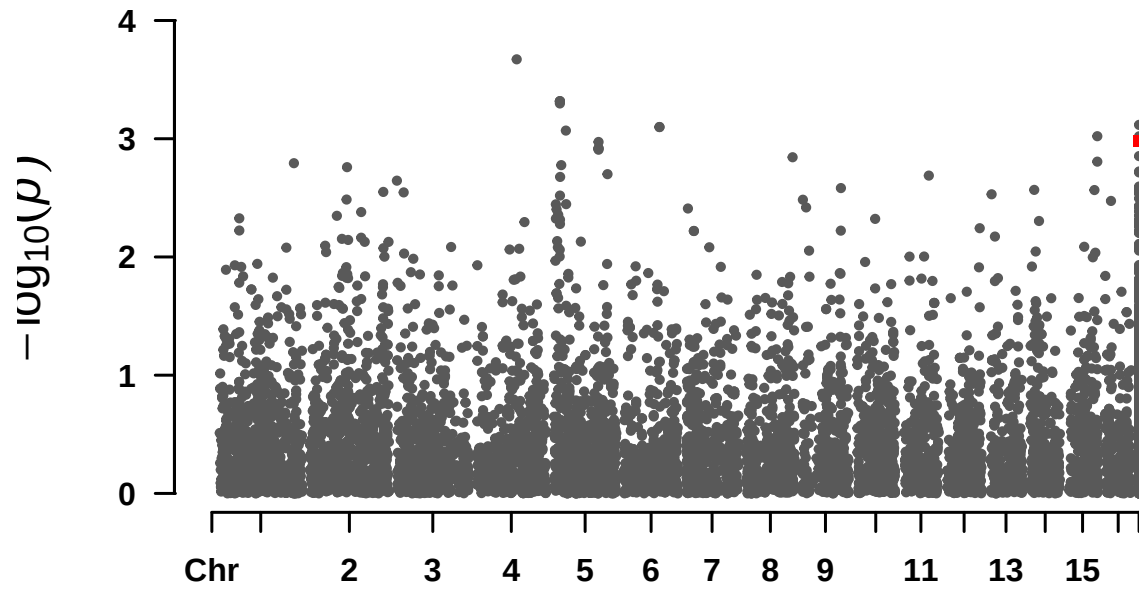


EFM

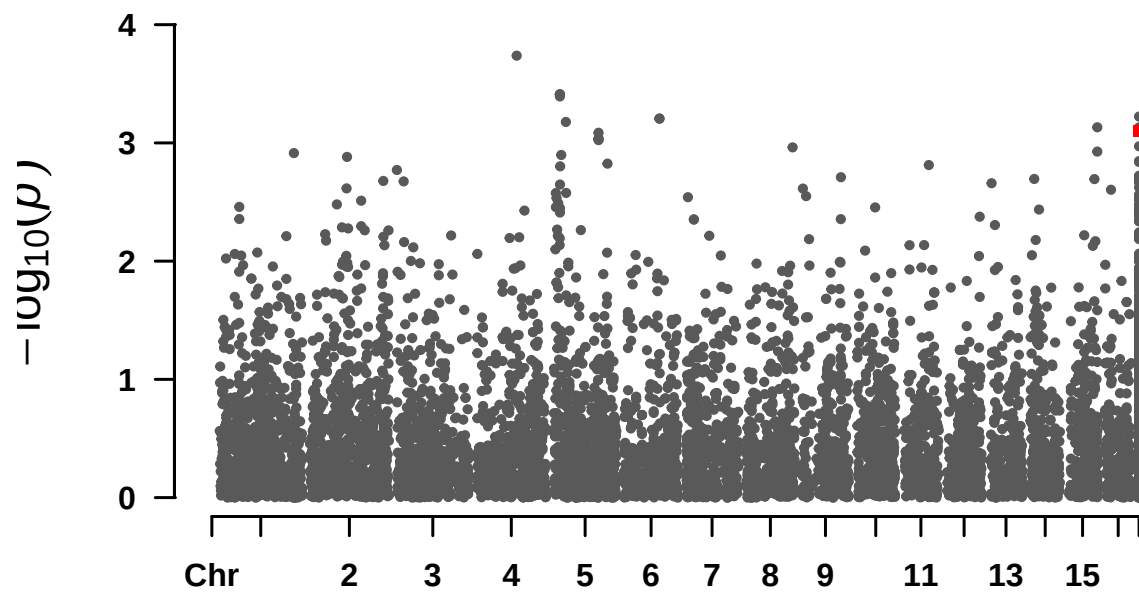
Rectangular Manhattan plotting BLINK.



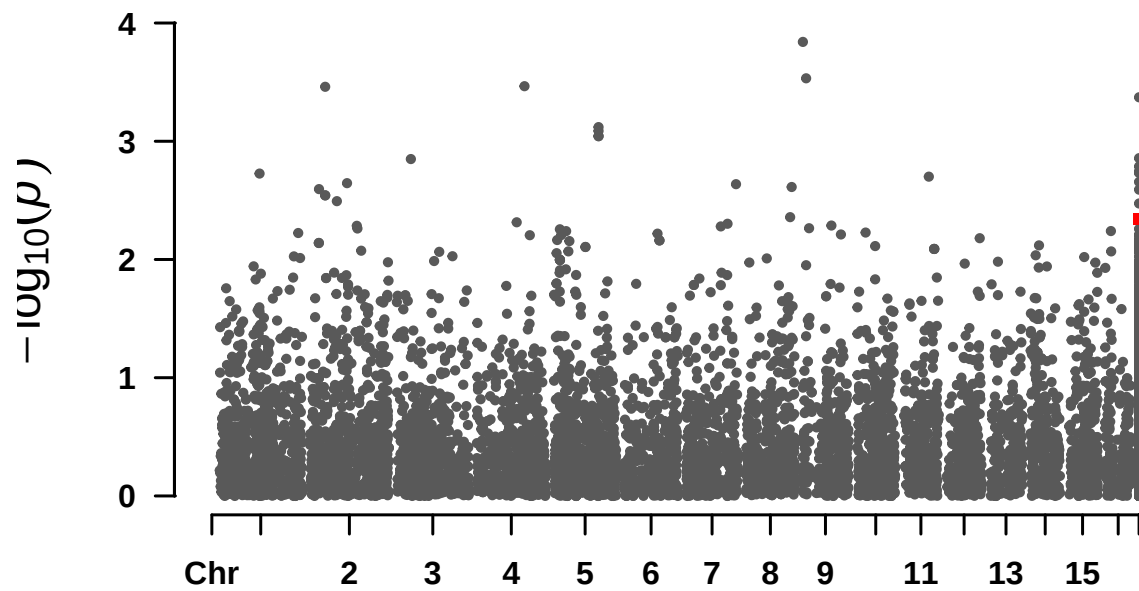
Rectangular Manhattan plotting FarmCPU.



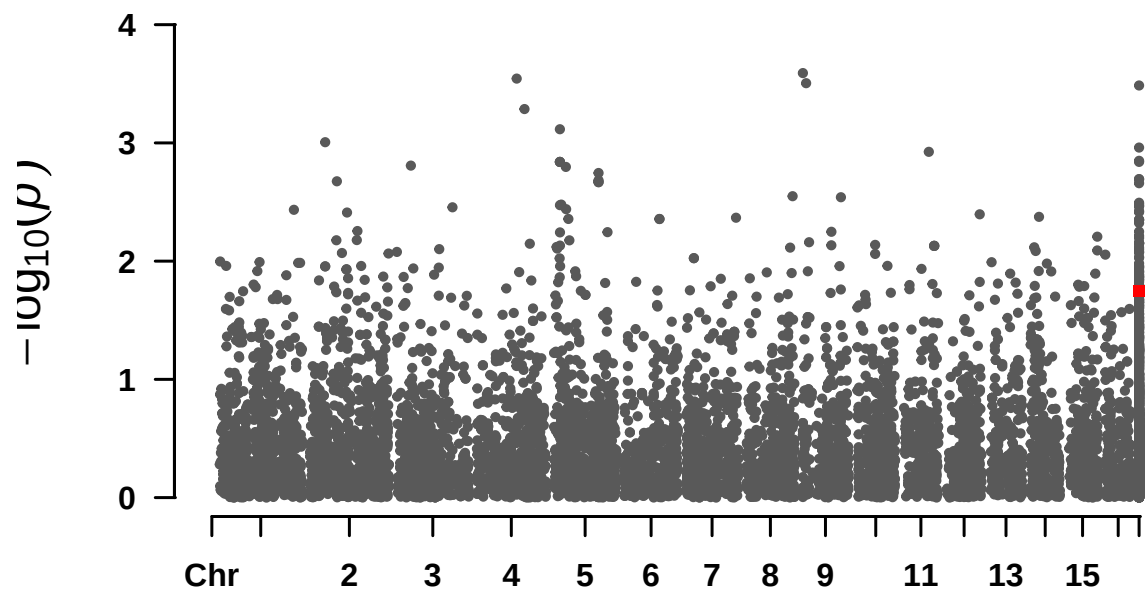
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

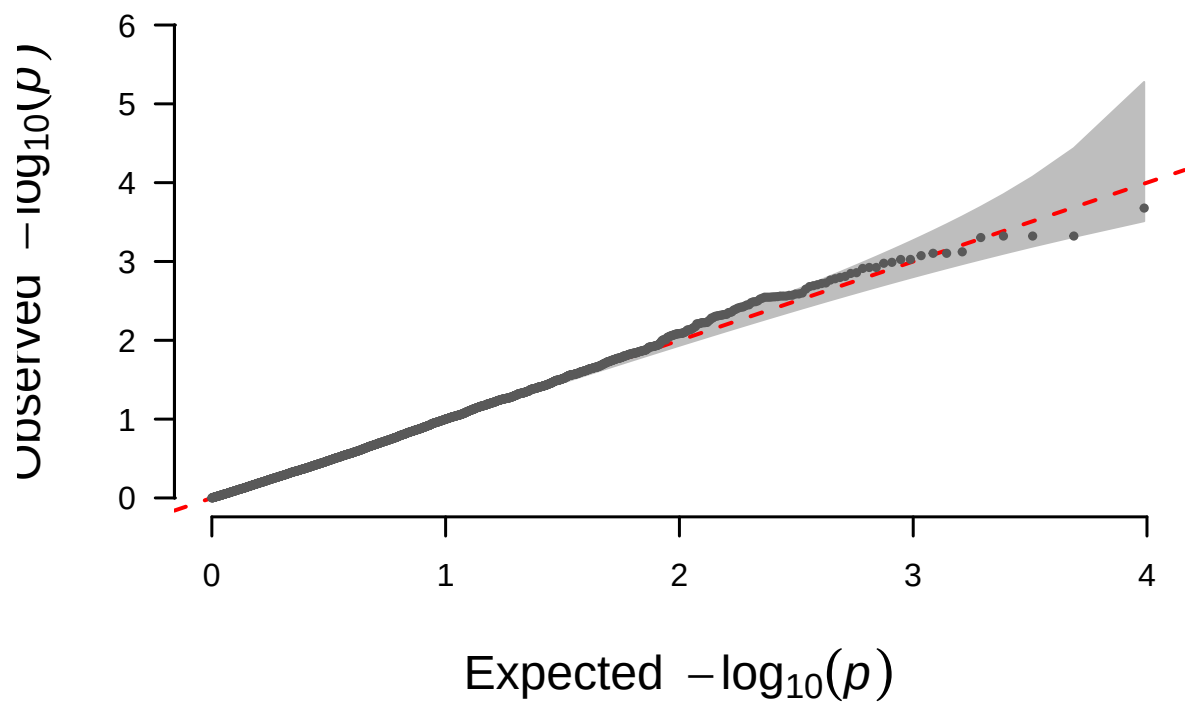


Rectangular Manhattan plotting MLMM.



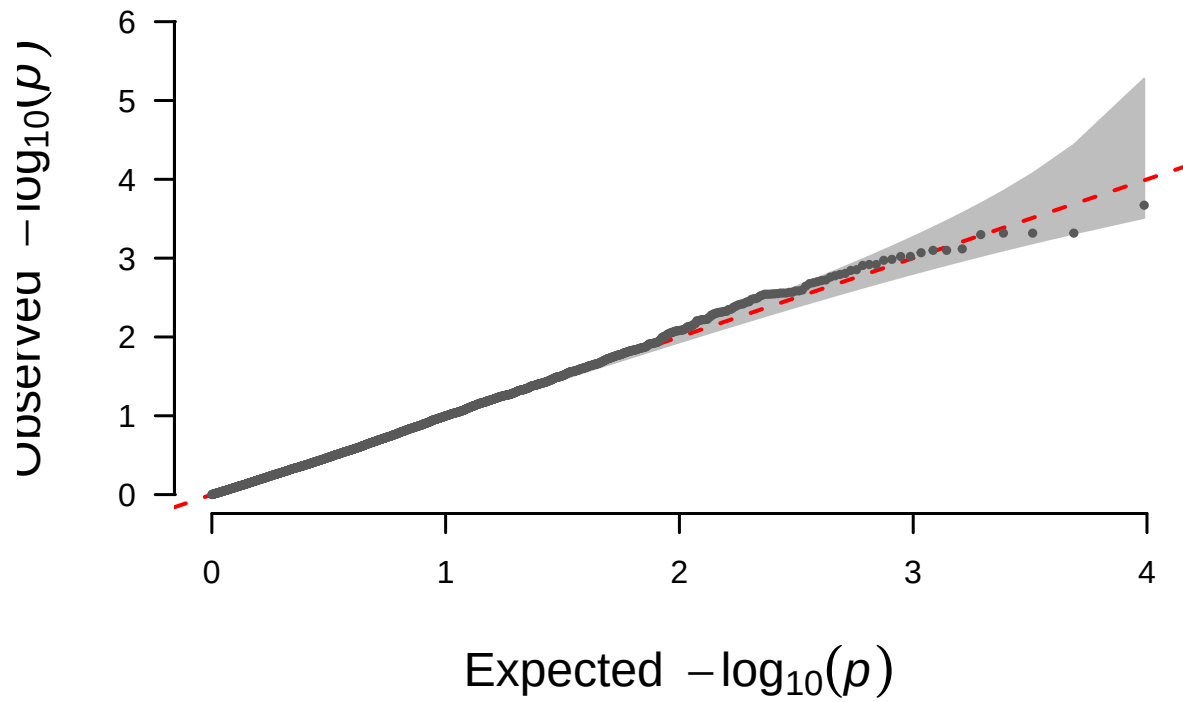
Q-Q plotting BLINK.

BLINK



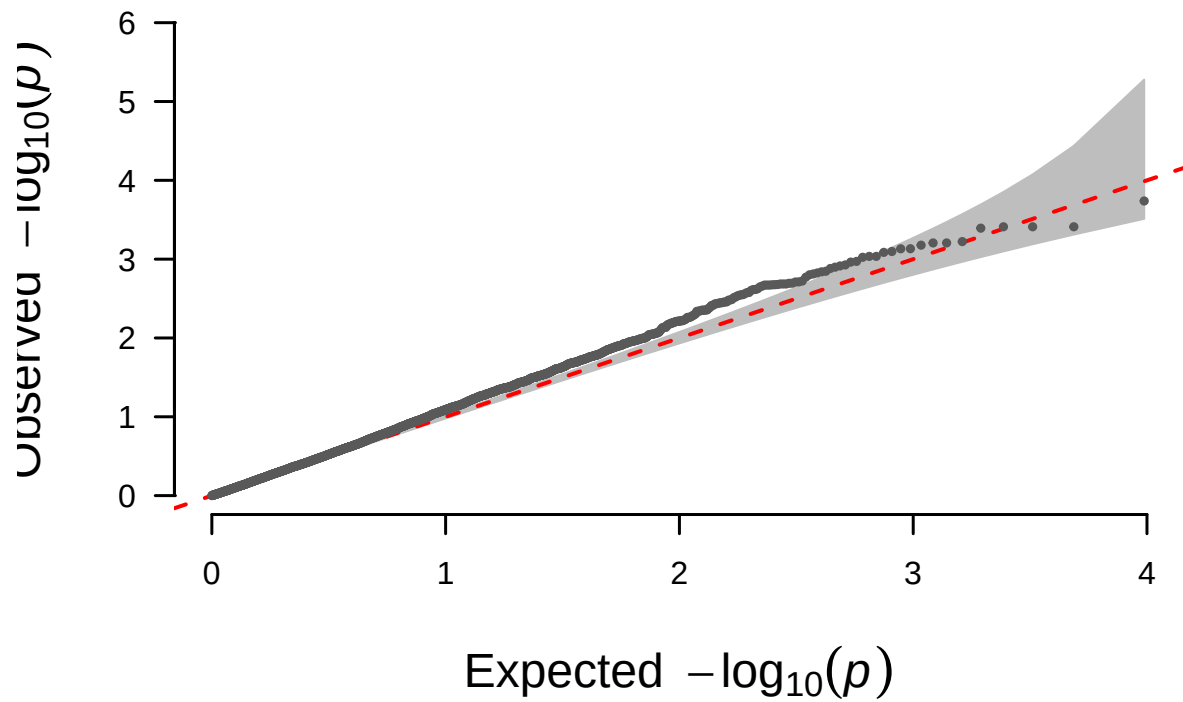
Q-Q plotting FarmCPU.

FarmCPU



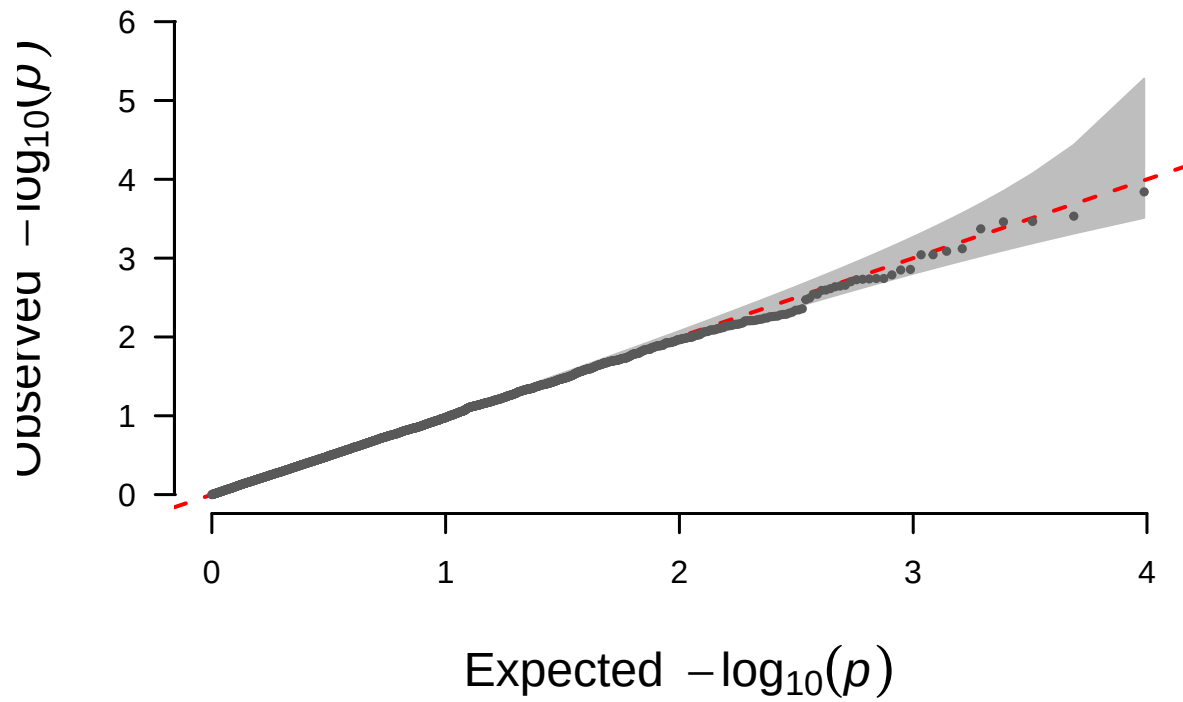
Q-Q plotting GLM.

GLM



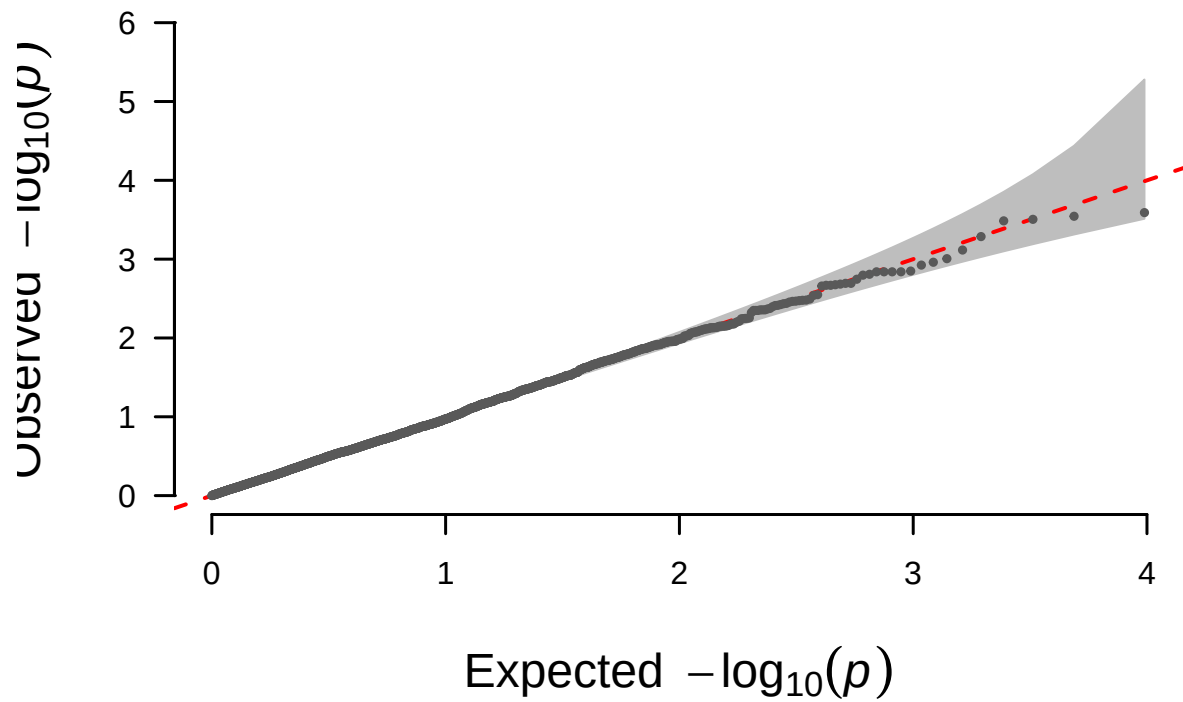
Q-Q plotting MLM.

MLM



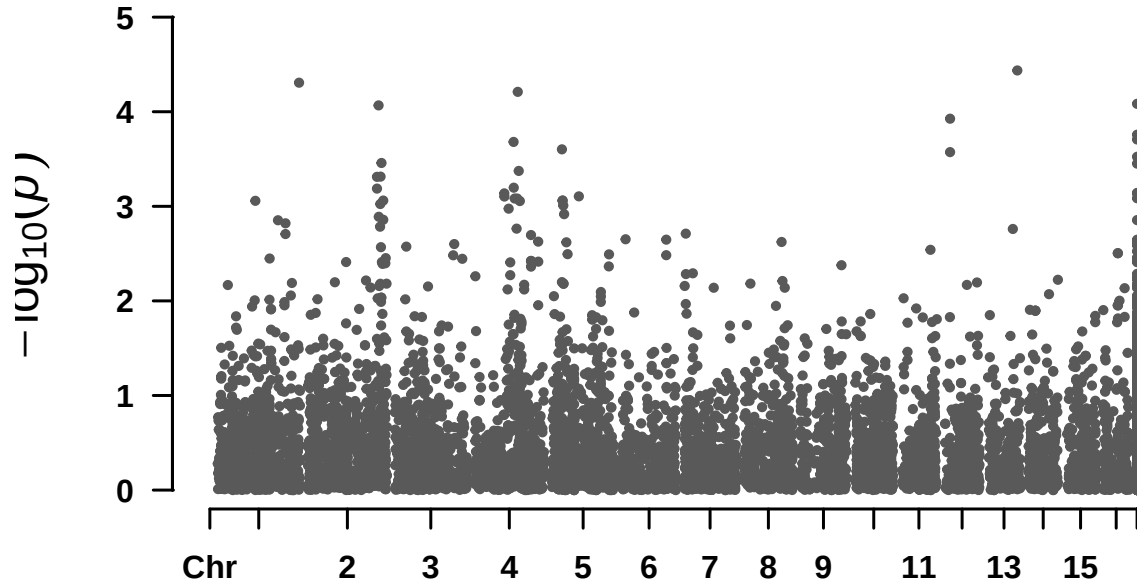
Q-Q plotting MLMM.

MLMM

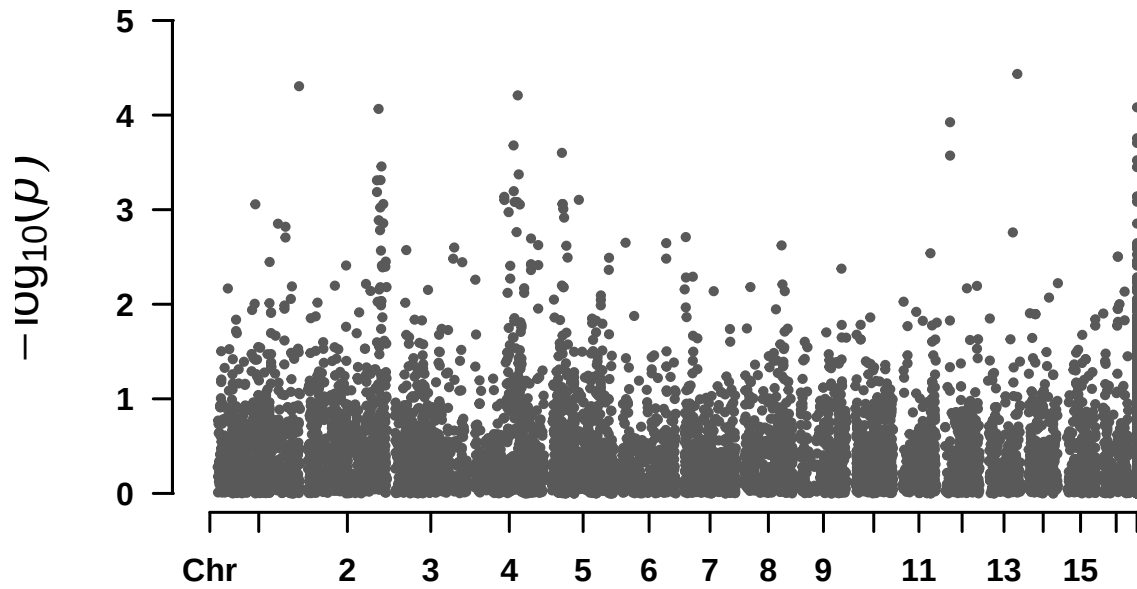


PFM

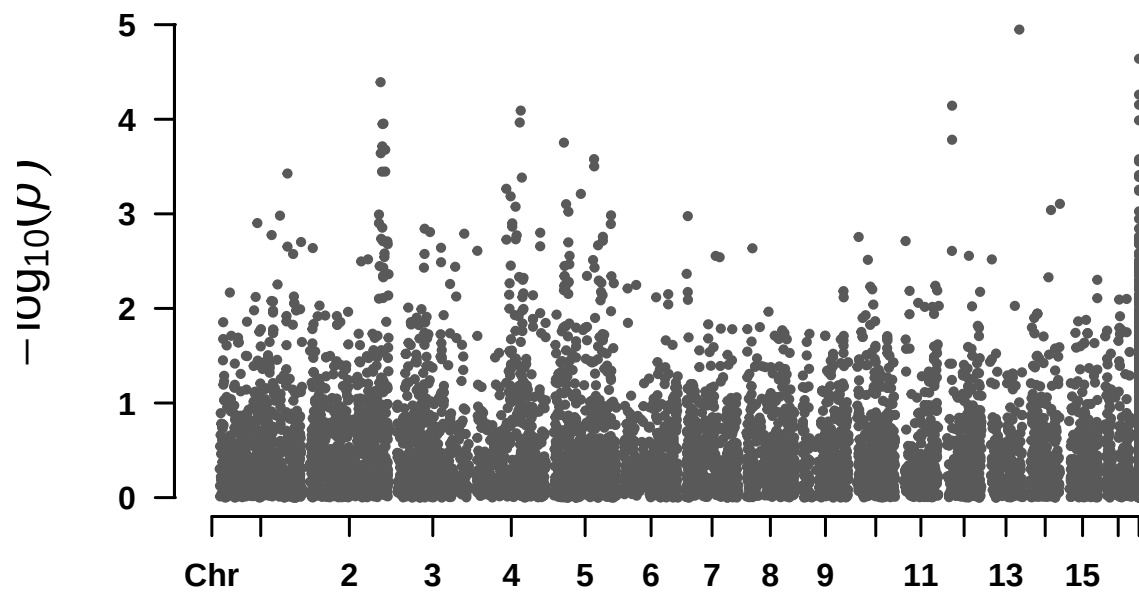
Rectangular Manhattan plotting BLINK.



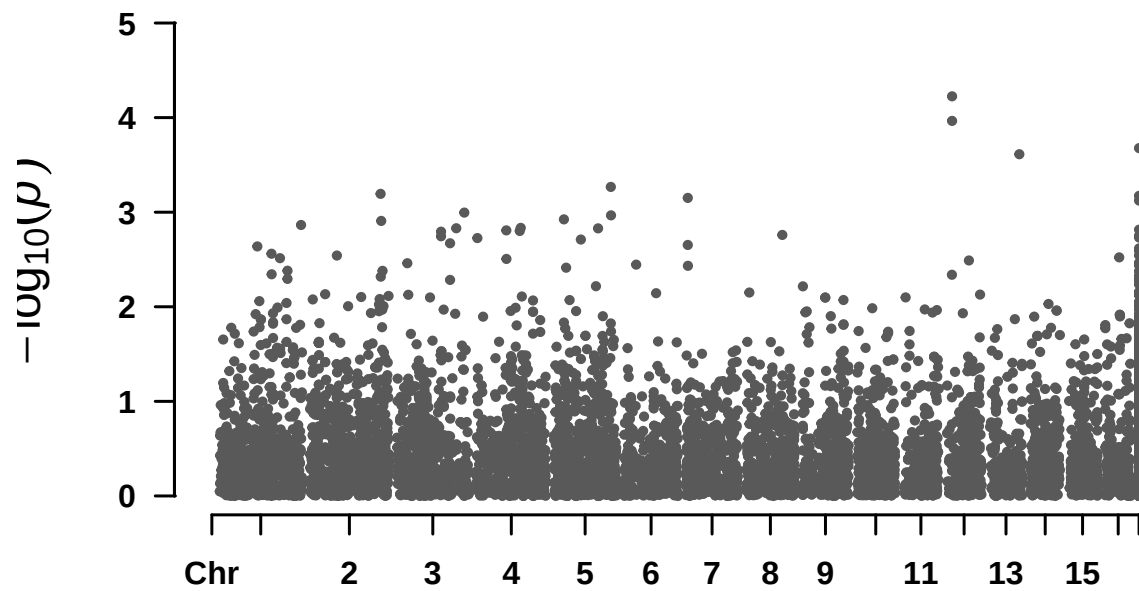
Rectangular Manhattan plotting FarmCPU.



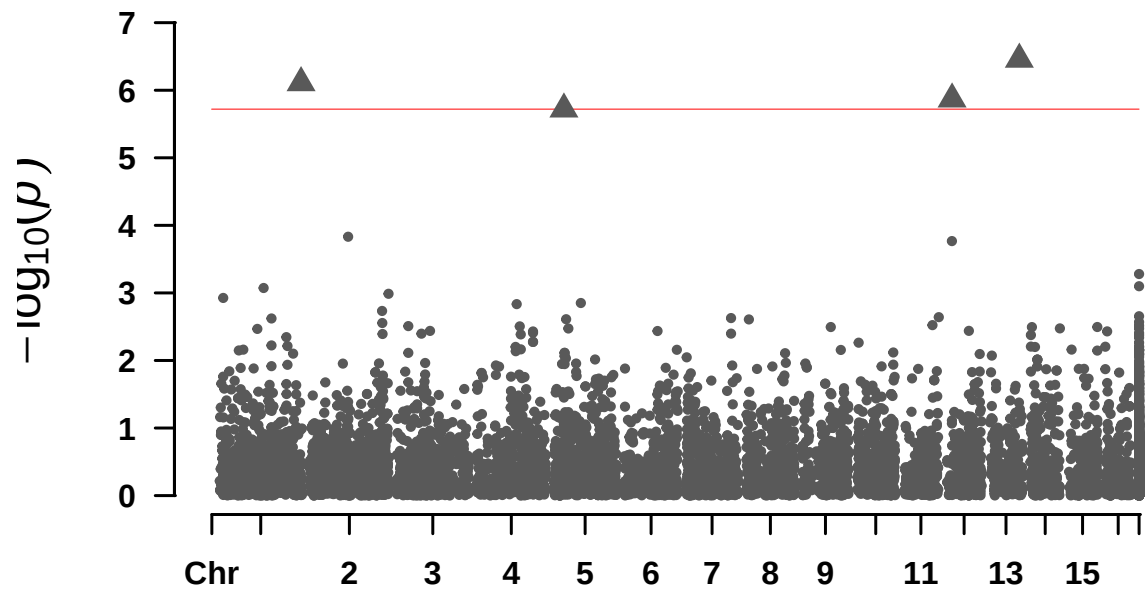
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

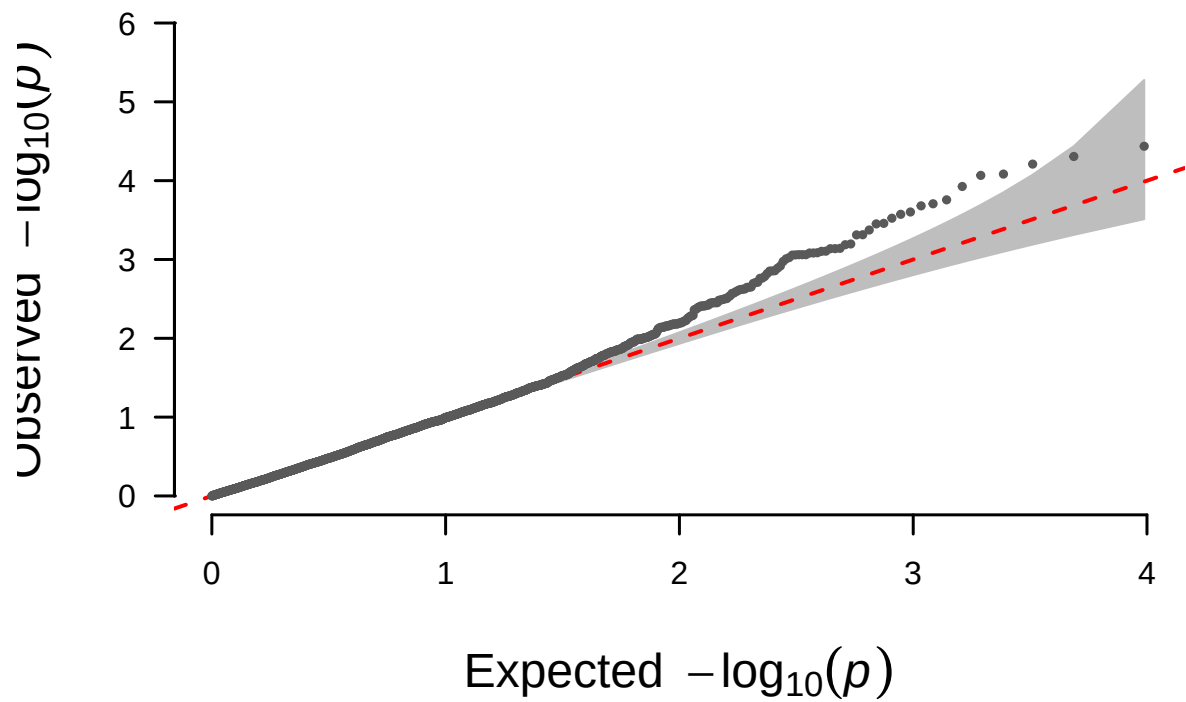


Rectangular Manhattan plotting MLMM.



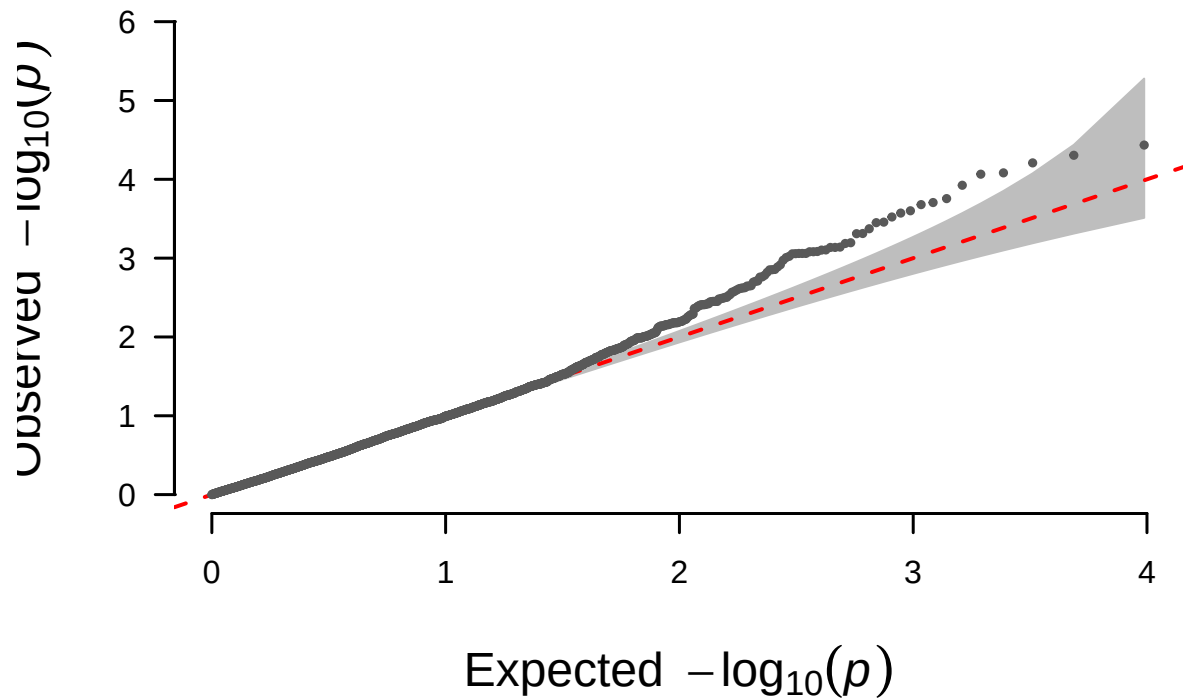
Q-Q plotting BLINK.

BLINK



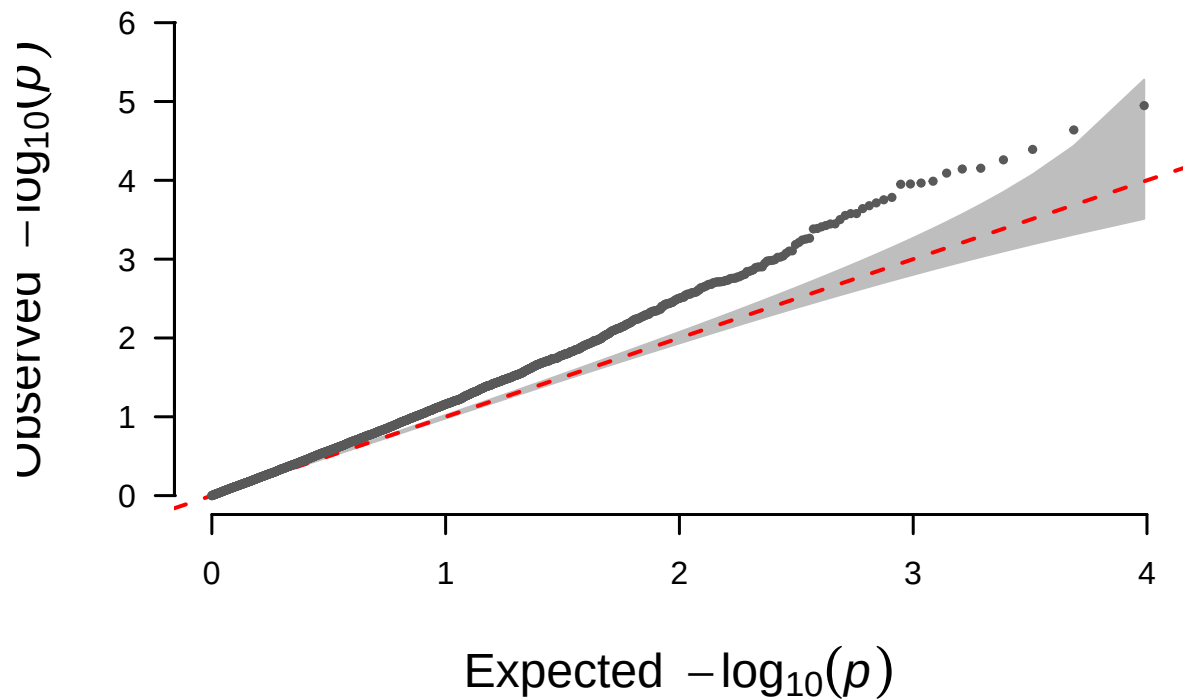
Q-Q plotting FarmCPU.

FarmCPU



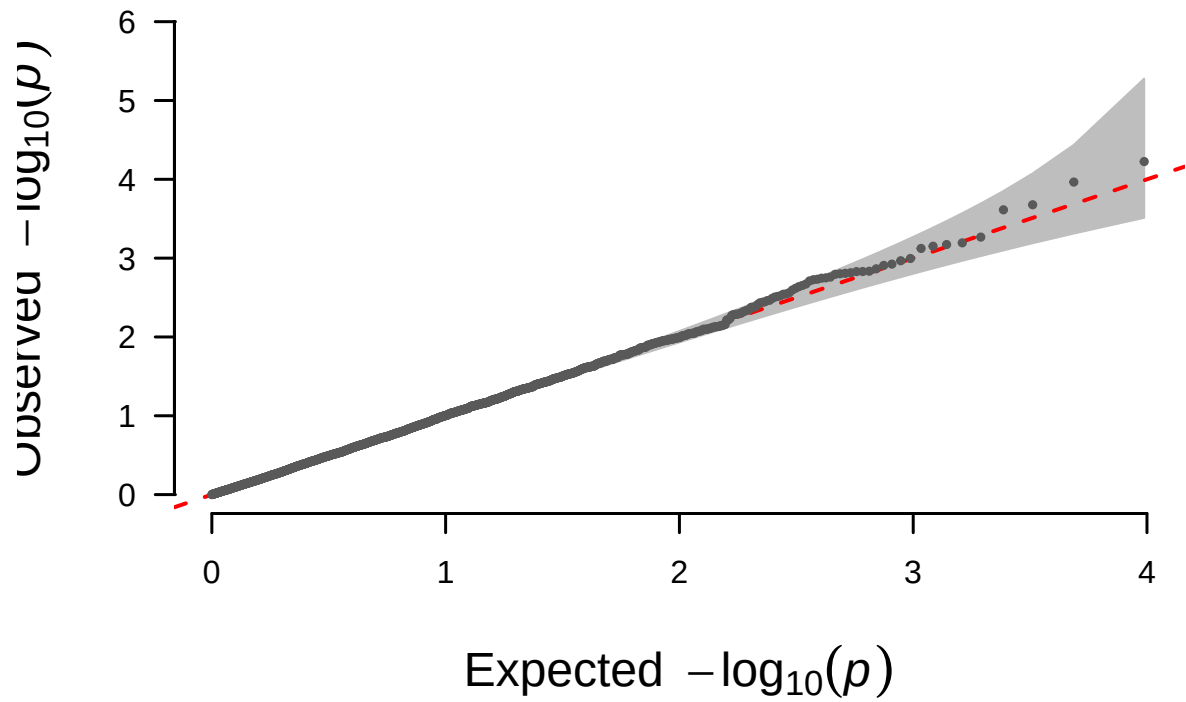
Q-Q plotting GLM.

GLM



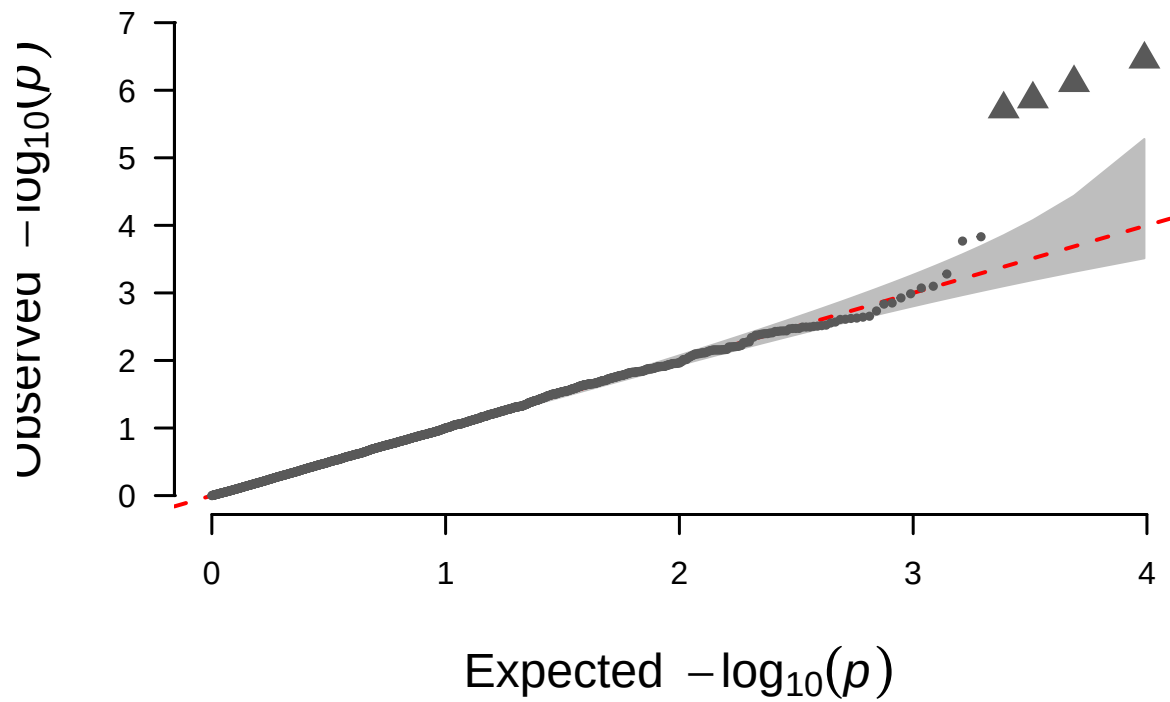
Q-Q plotting MLM.

MLM



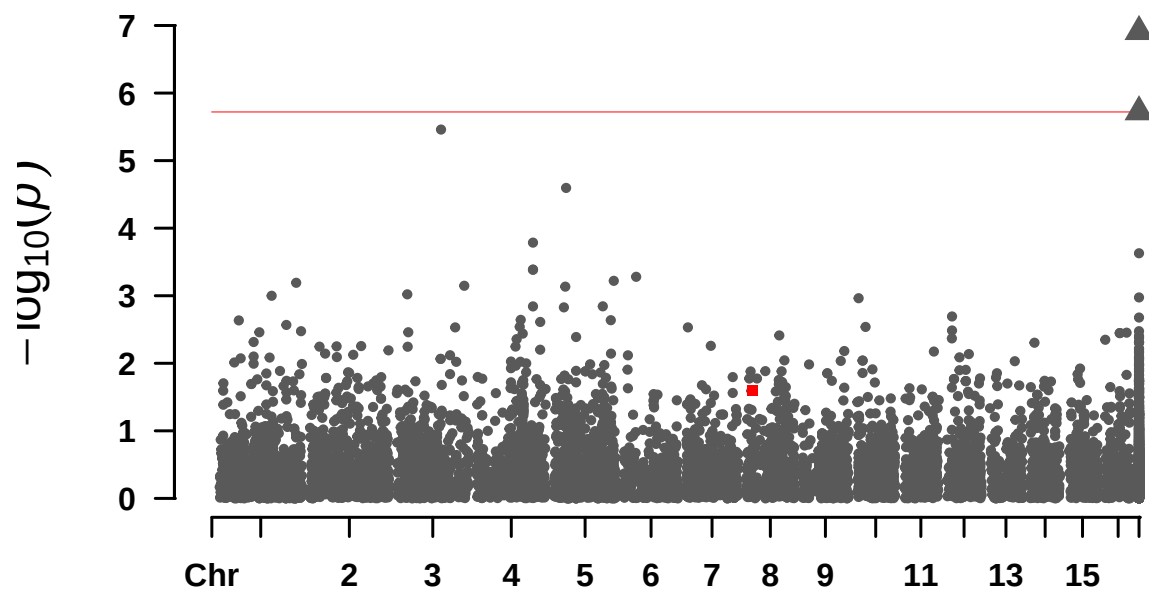
Q-Q plotting MLMM.

MLMM

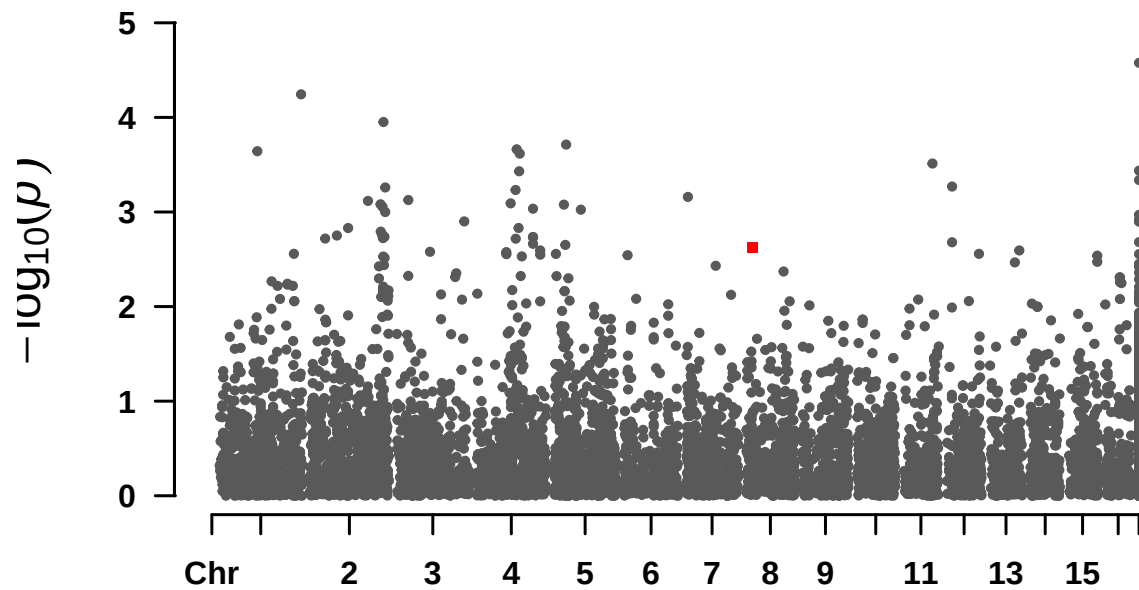


FM

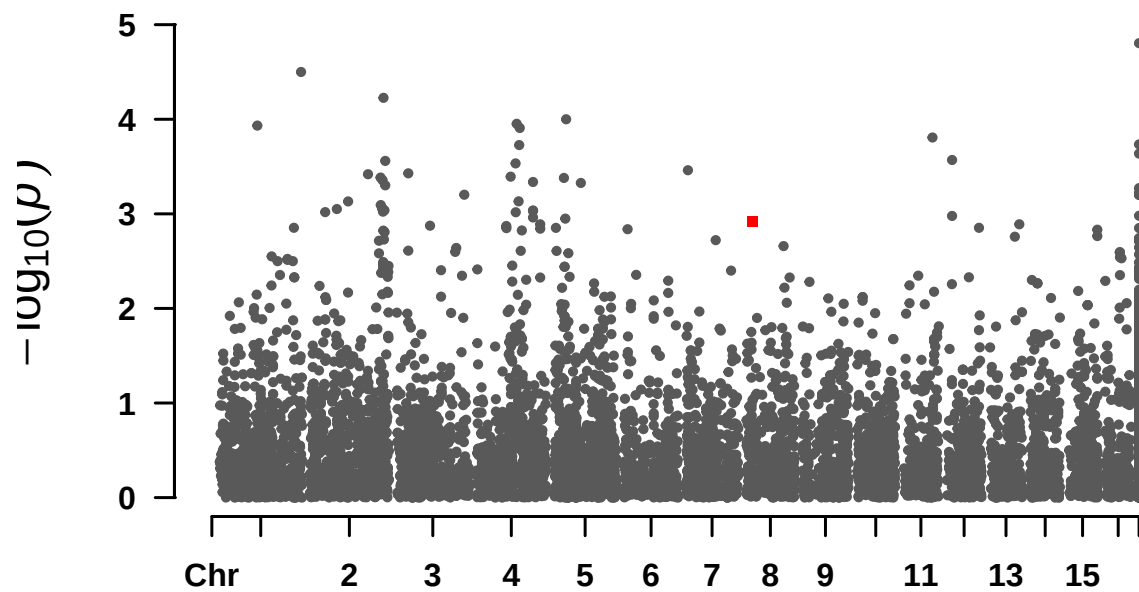
Rectangular Manhattan plotting BLINK.



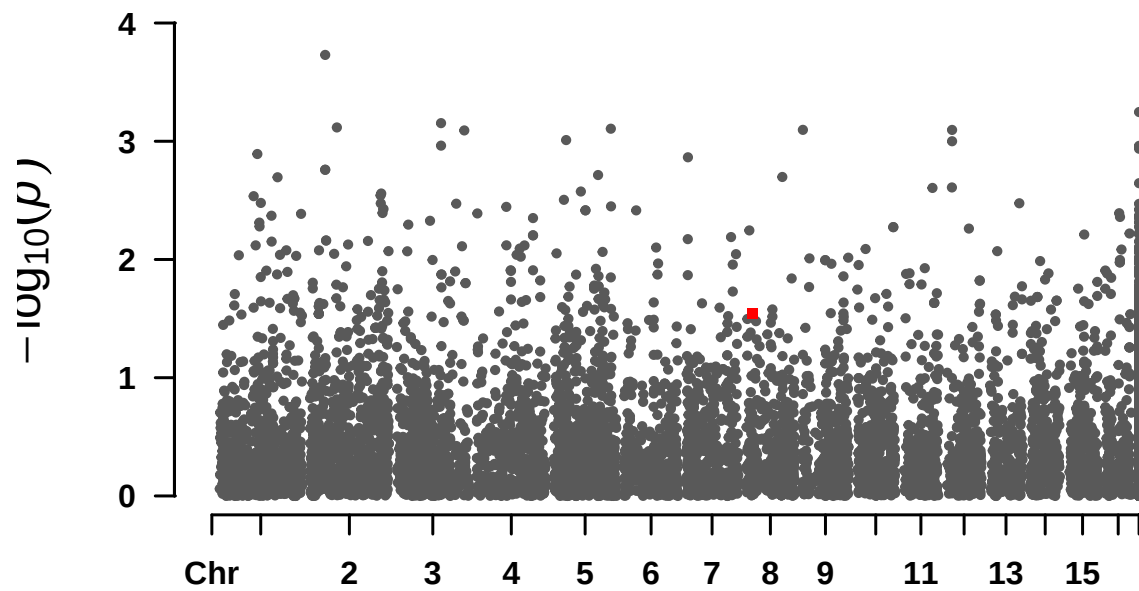
Rectangular Manhattan plotting FarmCPU.



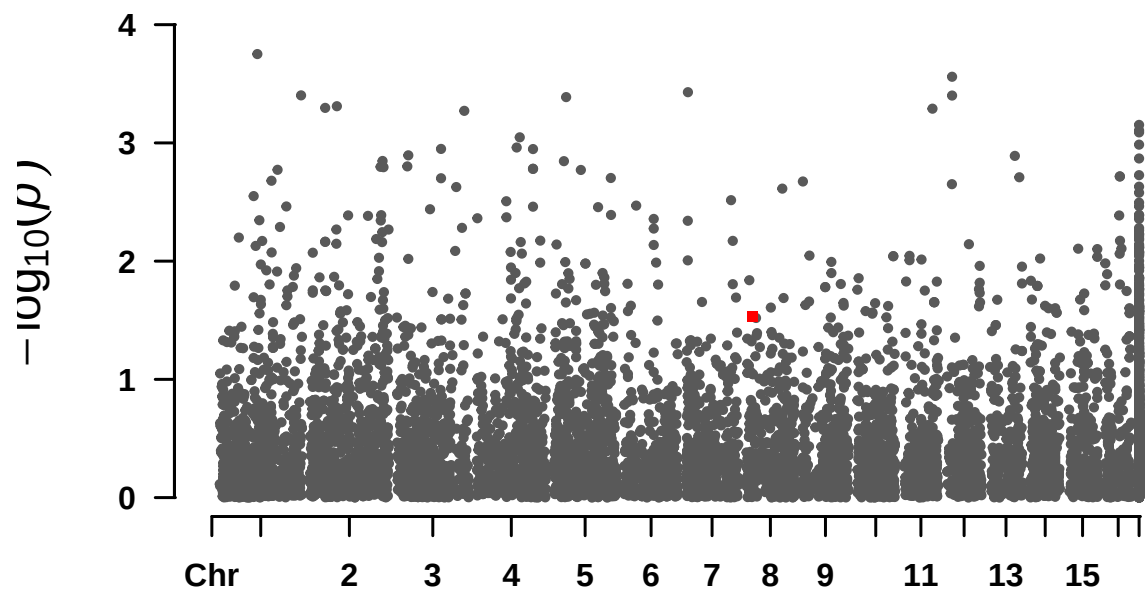
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

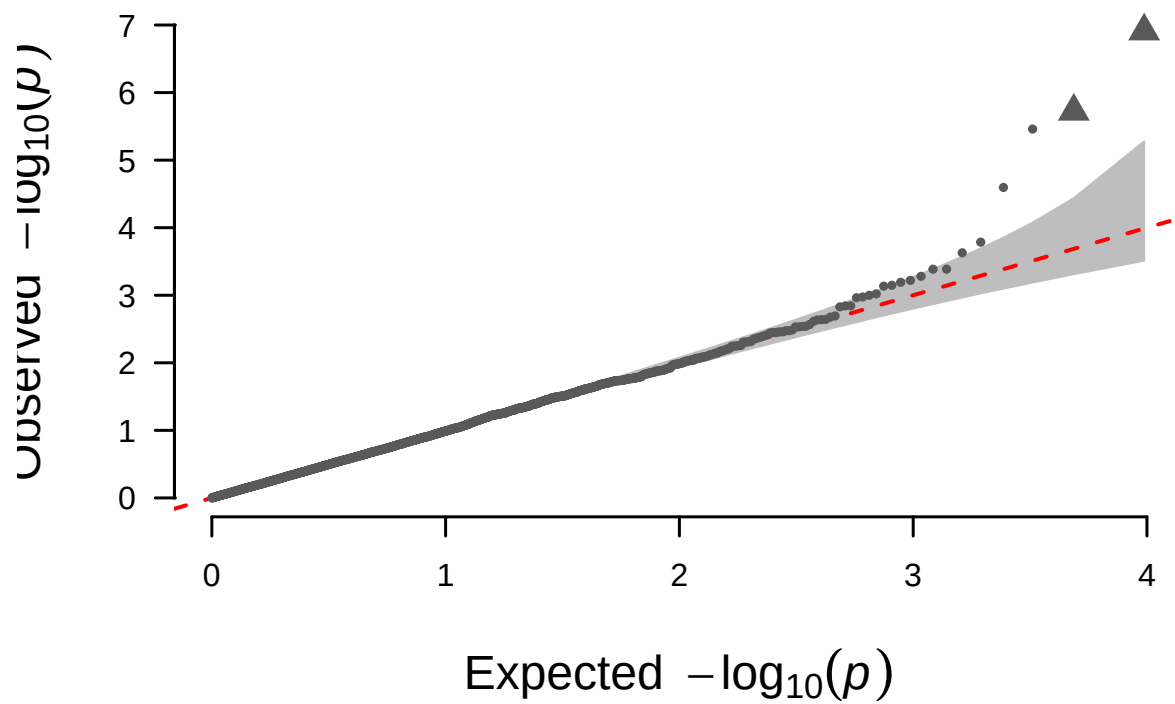


Rectangular Manhattan plotting MLMM.



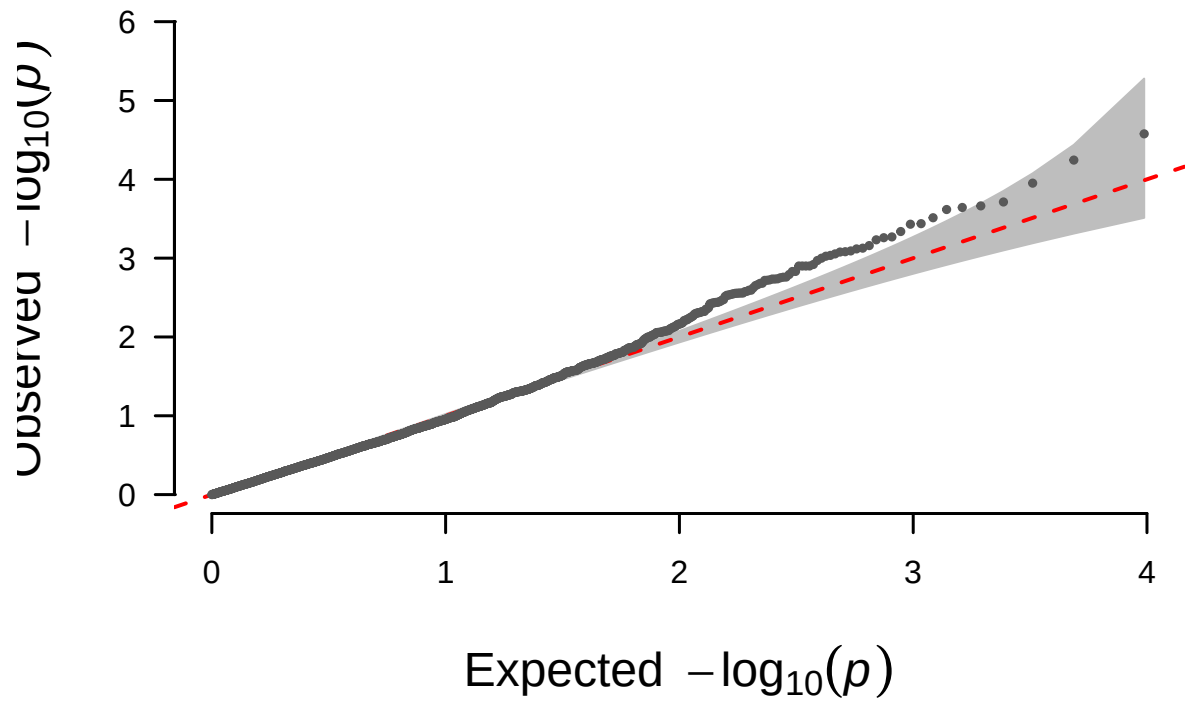
Q-Q plotting BLINK.

BLINK



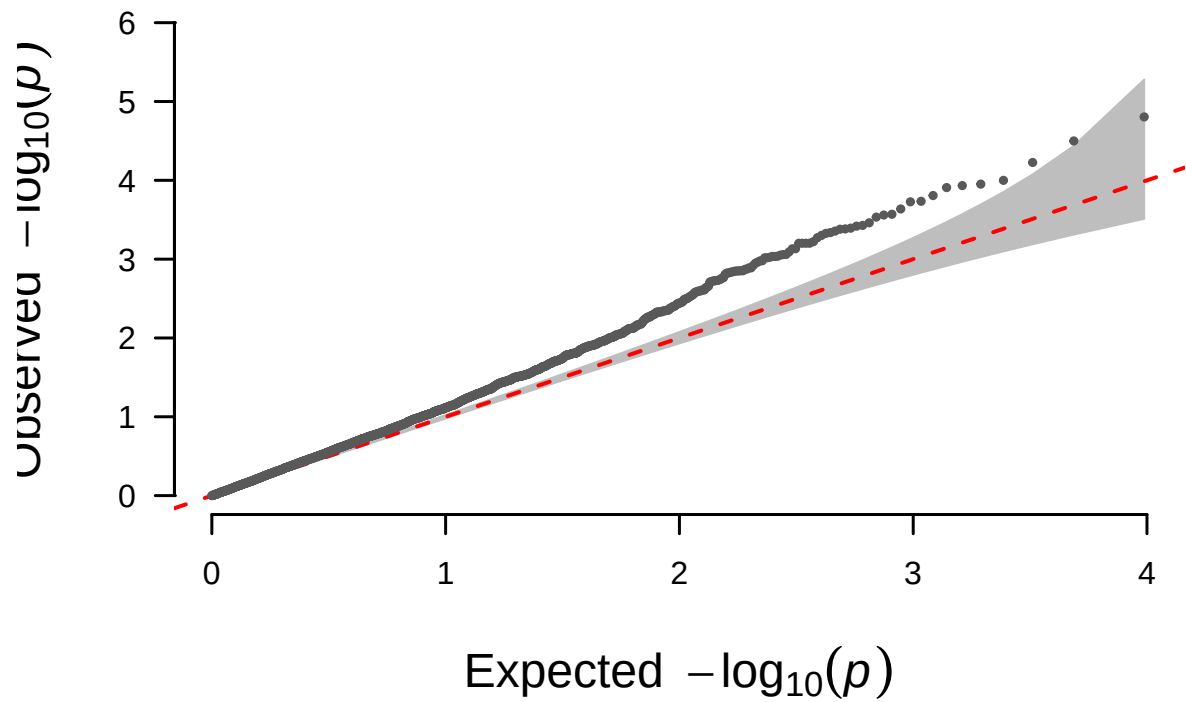
Q-Q plotting FarmCPU.

FarmCPU



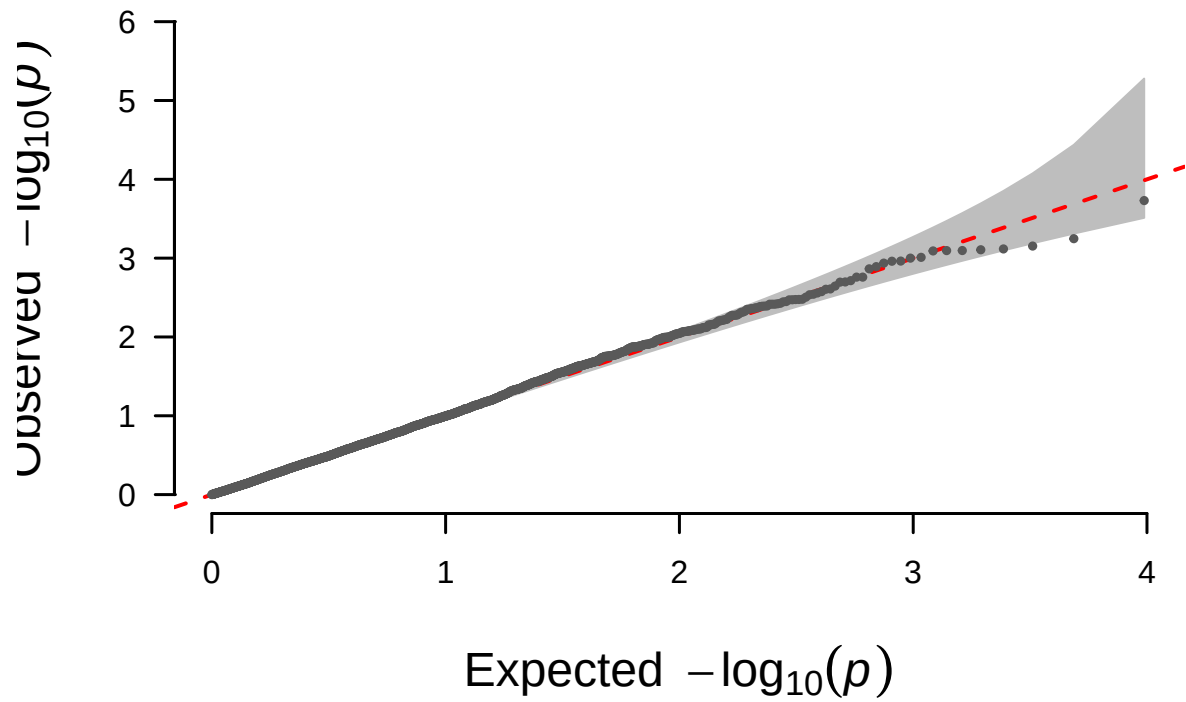
Q-Q plotting GLM.

GLM



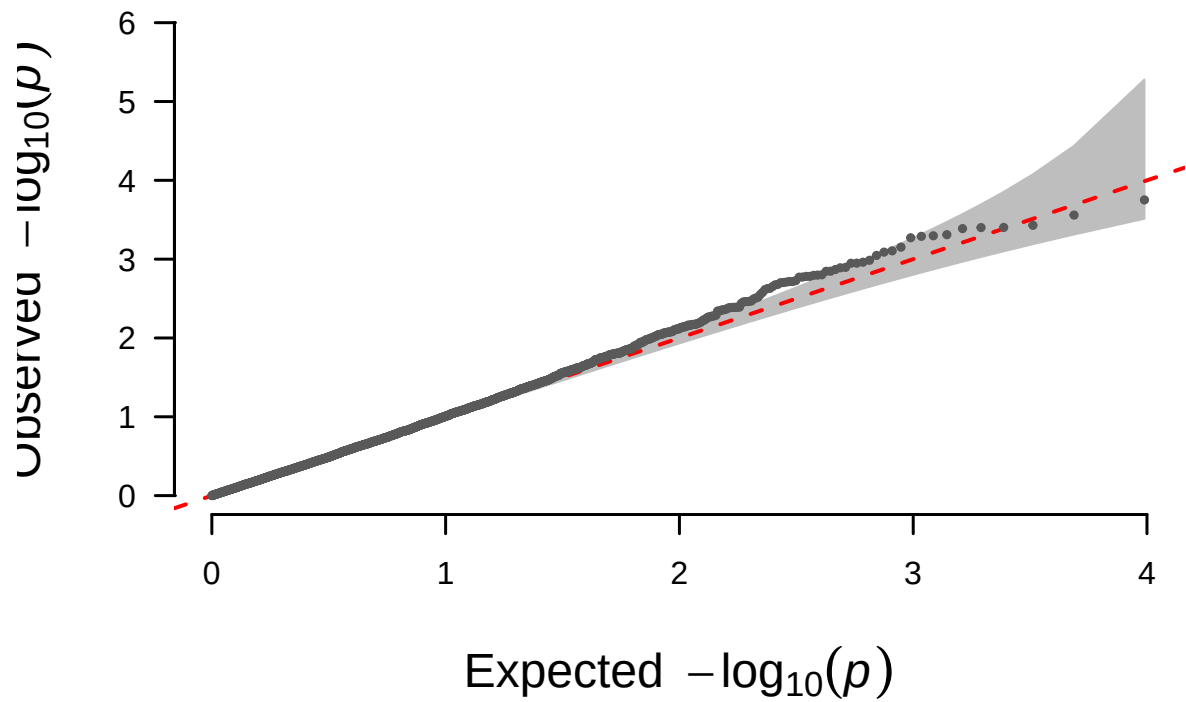
Q-Q plotting MLM.

MLM



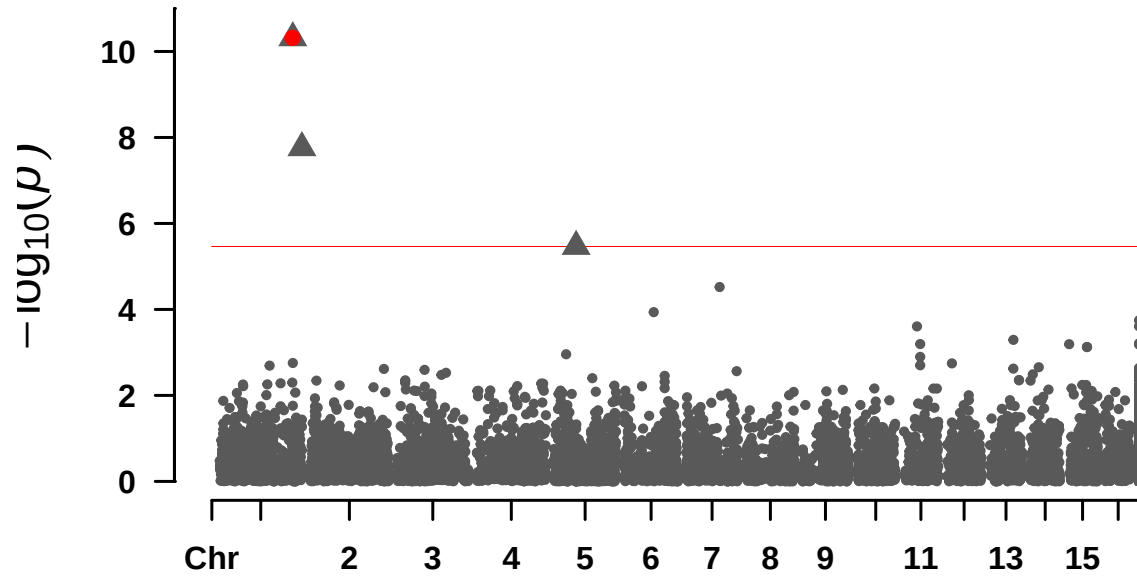
Q-Q plotting MLMM.

MLMM

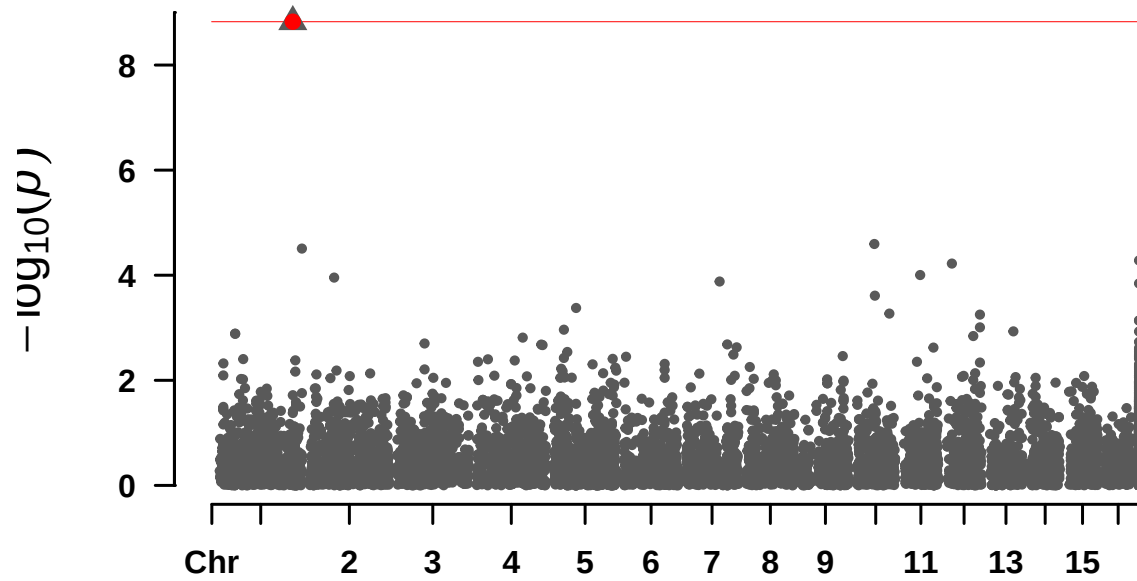


NW

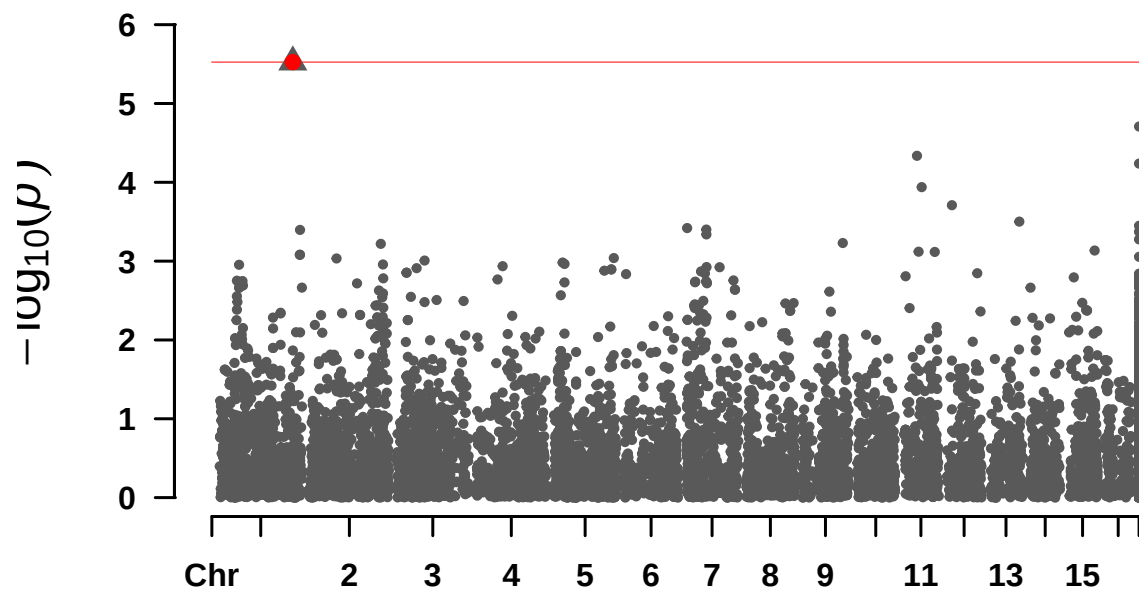
Rectangular Manhattan plotting BLINK.



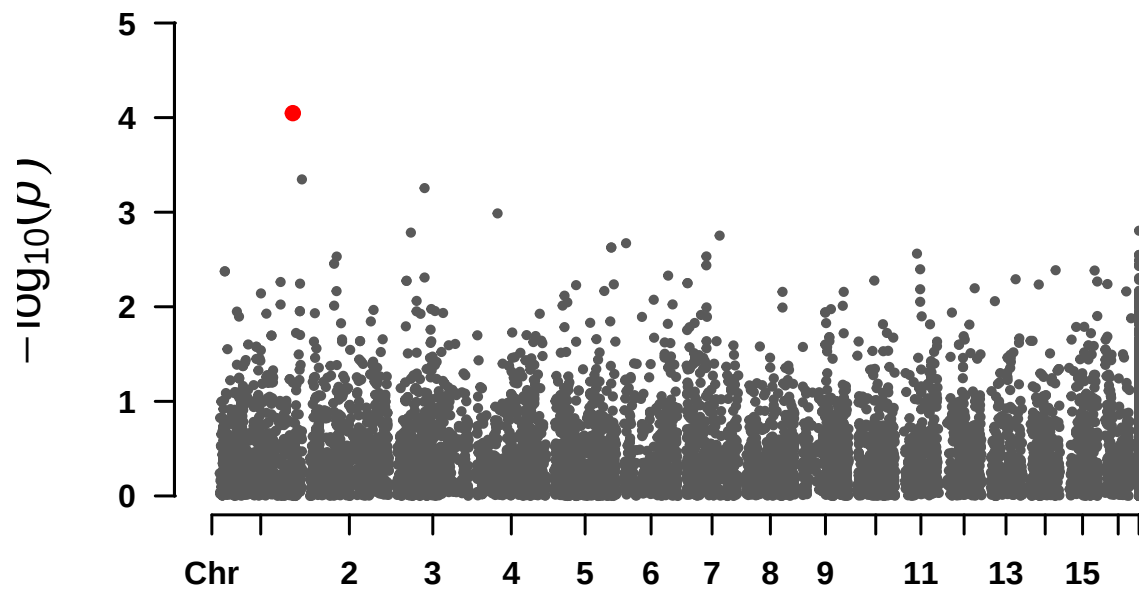
Rectangular Manhattan plotting FarmCPU.



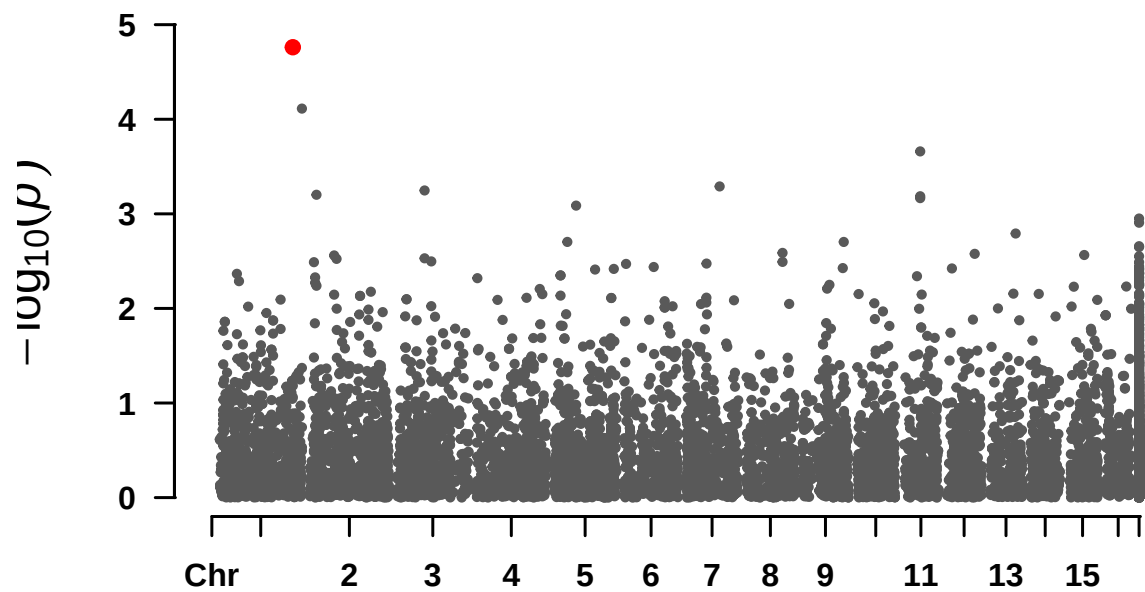
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

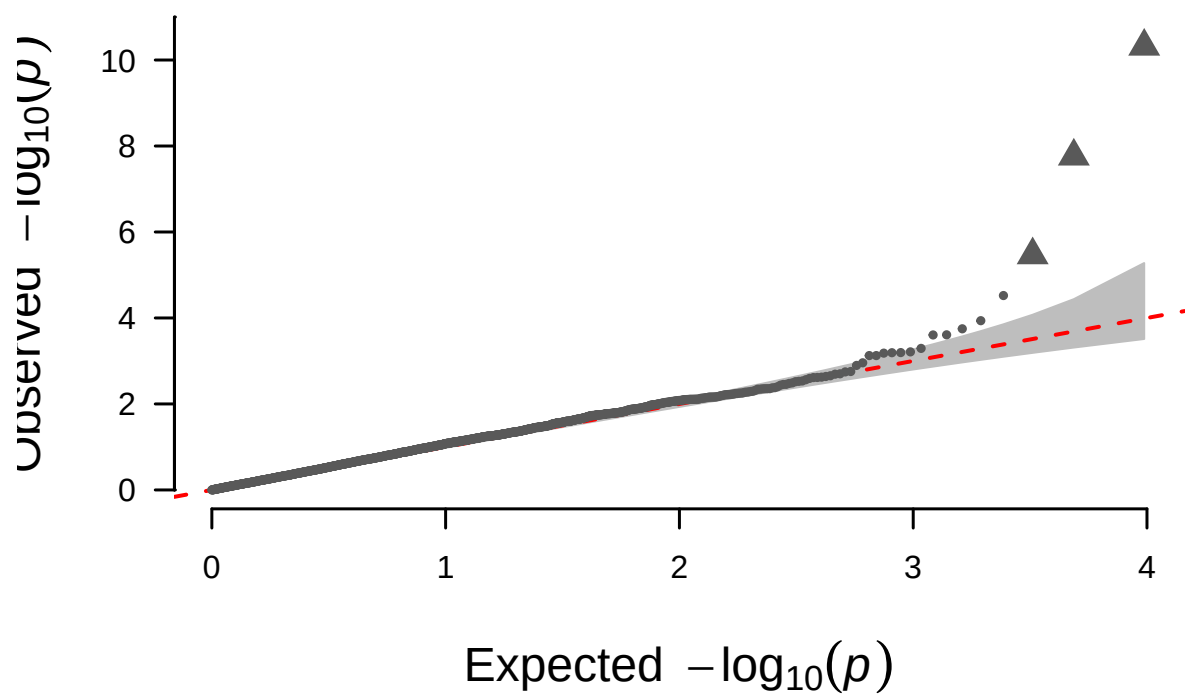


Rectangular Manhattan plotting MLMM.



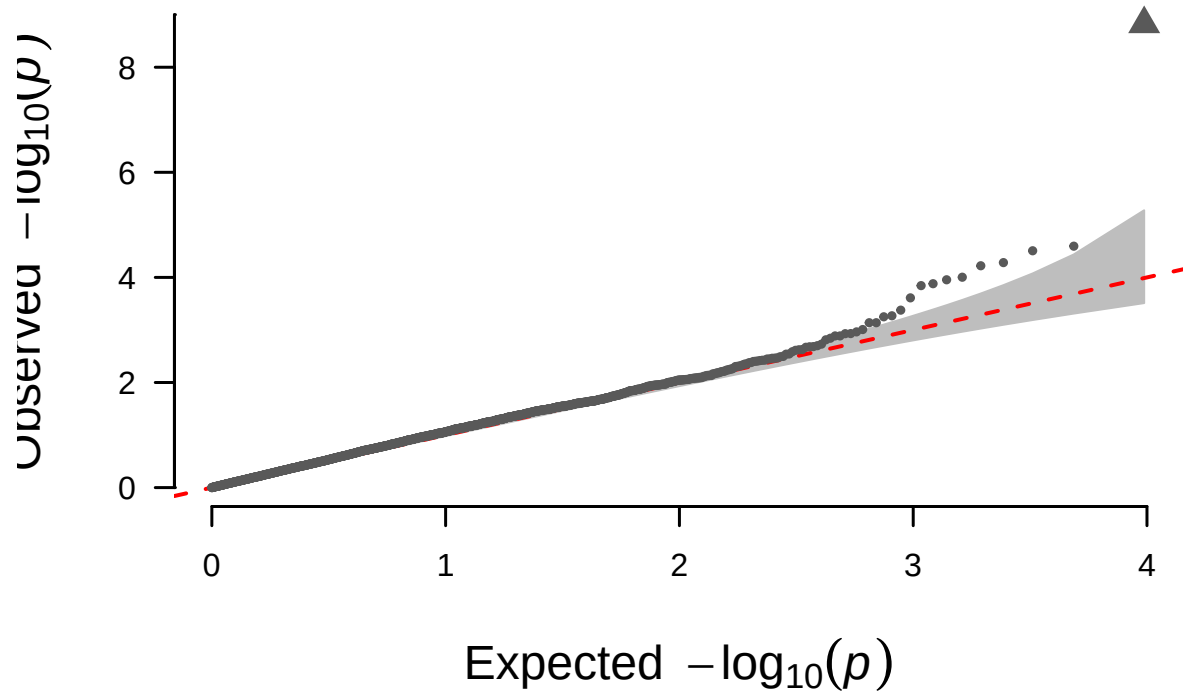
Q-Q plotting BLINK.

BLINK



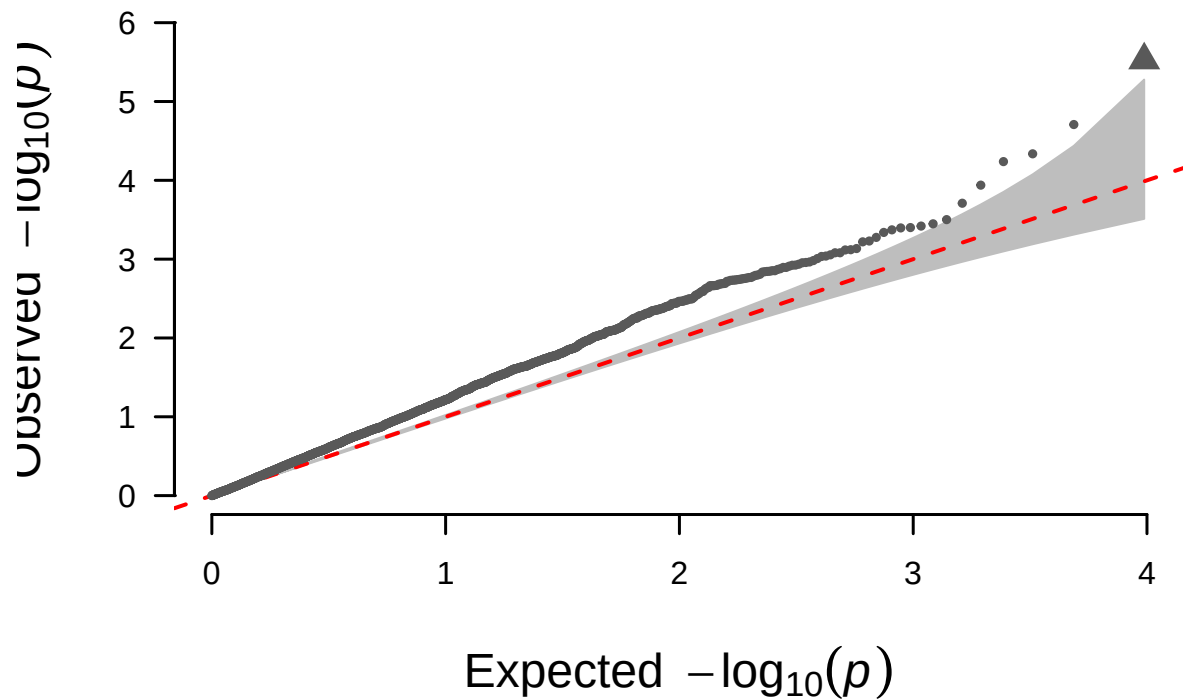
Q-Q plotting FarmCPU.

FarmCPU



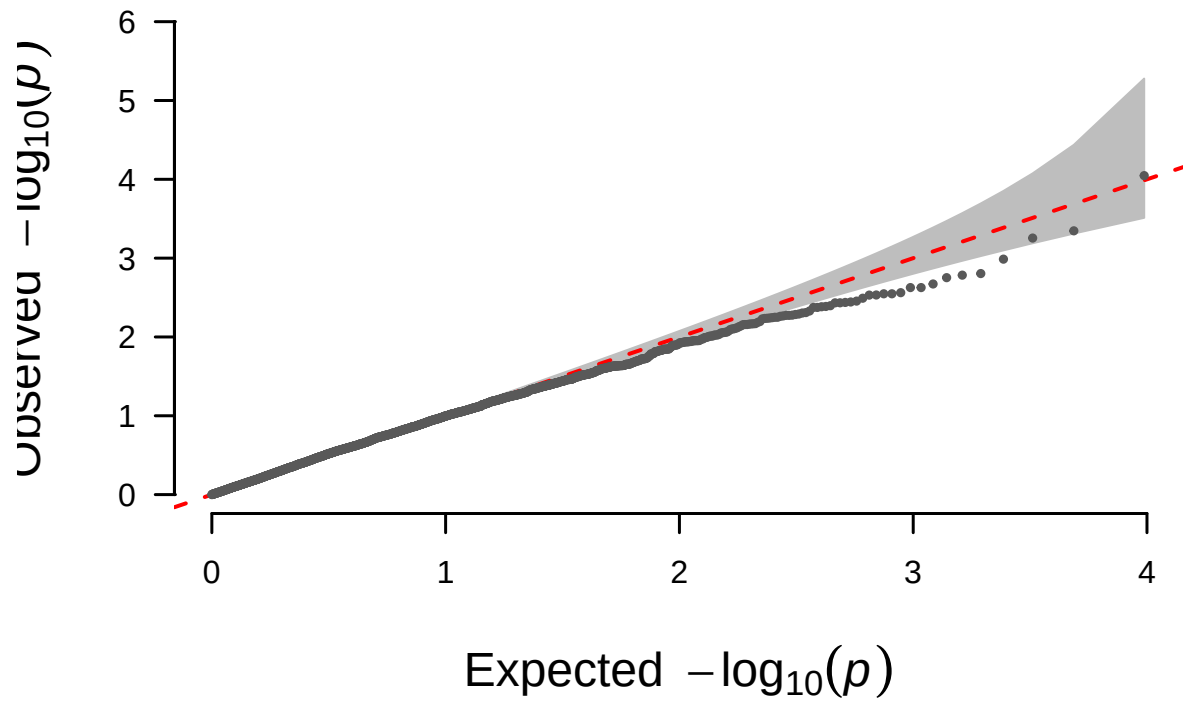
Q-Q plotting GLM.

GLM



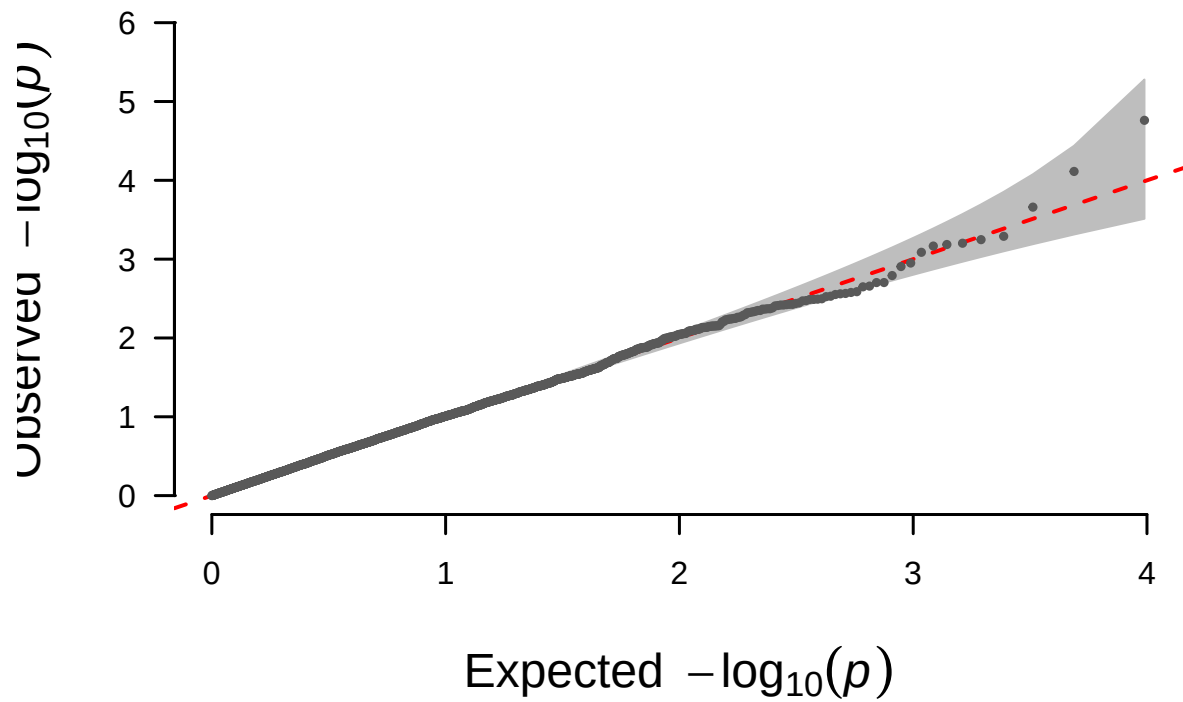
Q-Q plotting MLM.

MLM



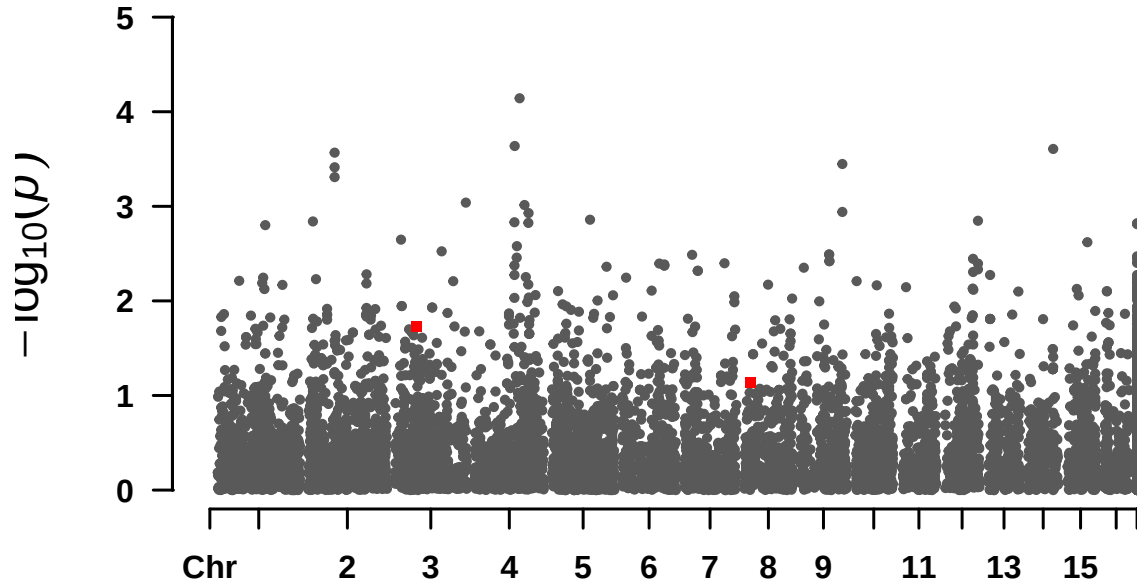
Q-Q plotting MLMM.

MLMM

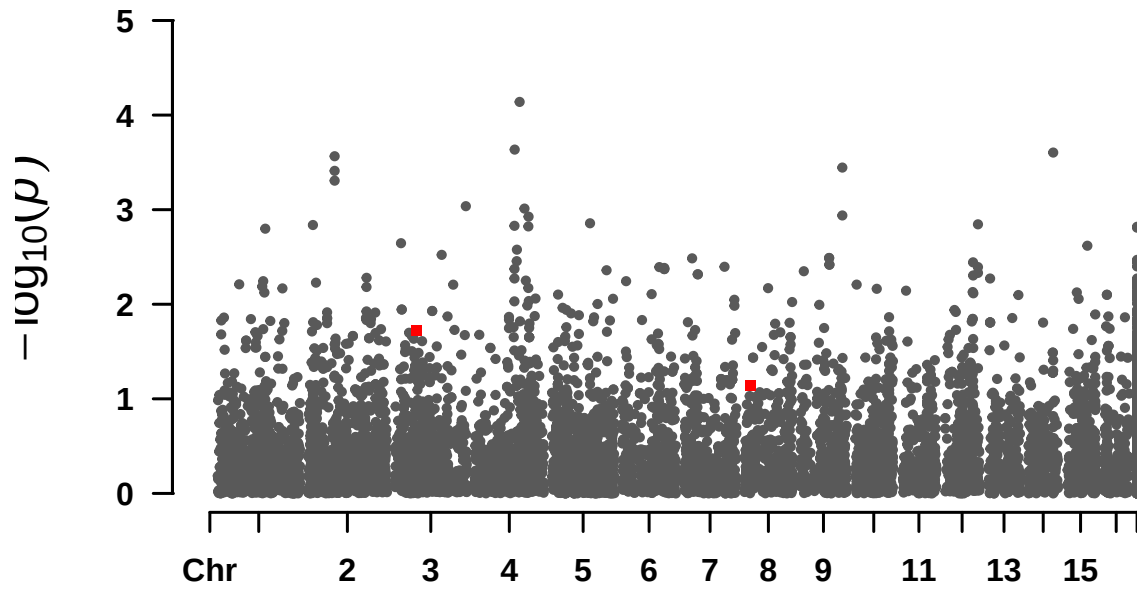


LN

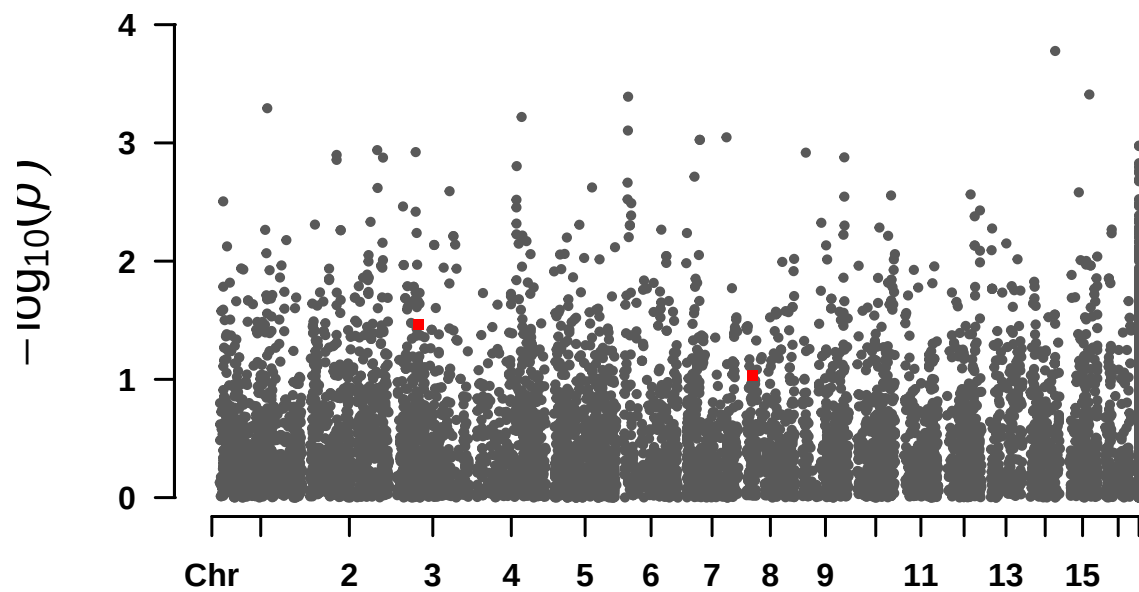
Rectangular Manhattan plotting BLINK.



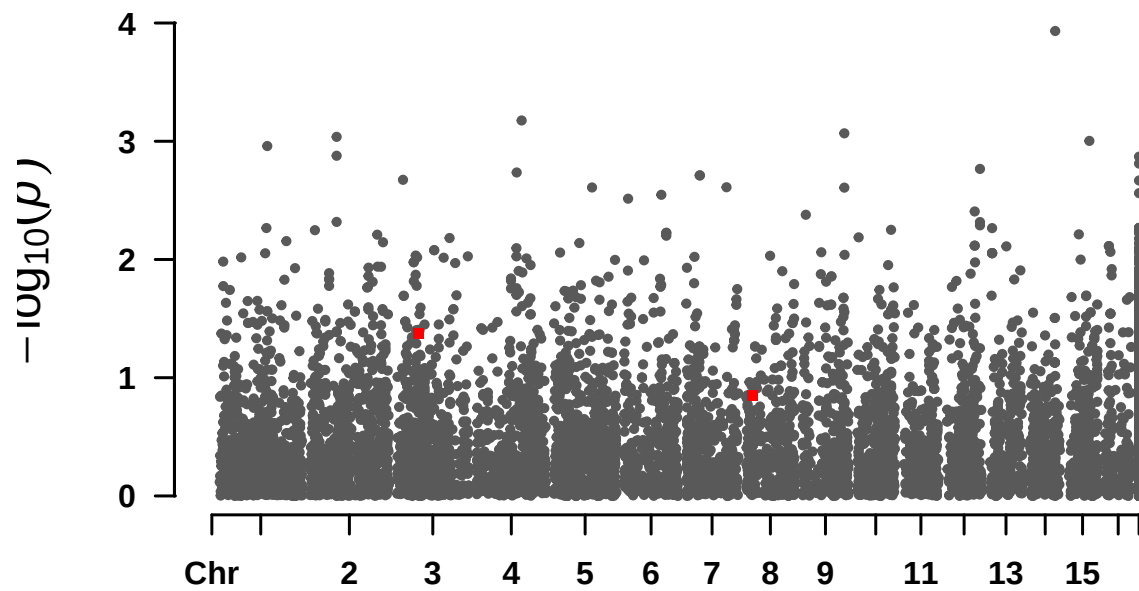
Rectangular Manhattan plotting FarmCPU.



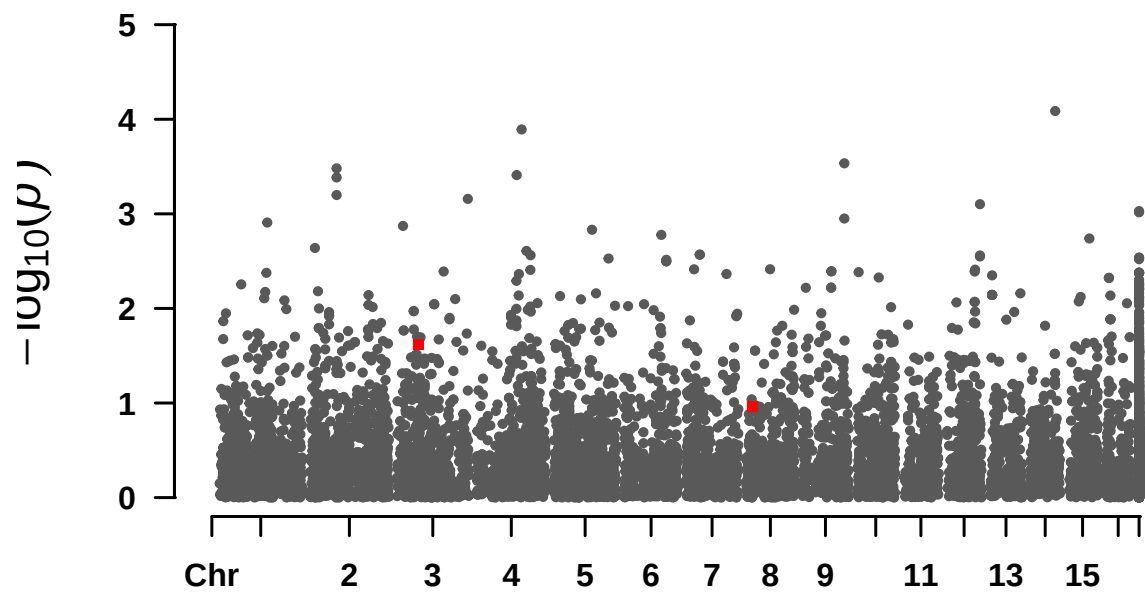
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

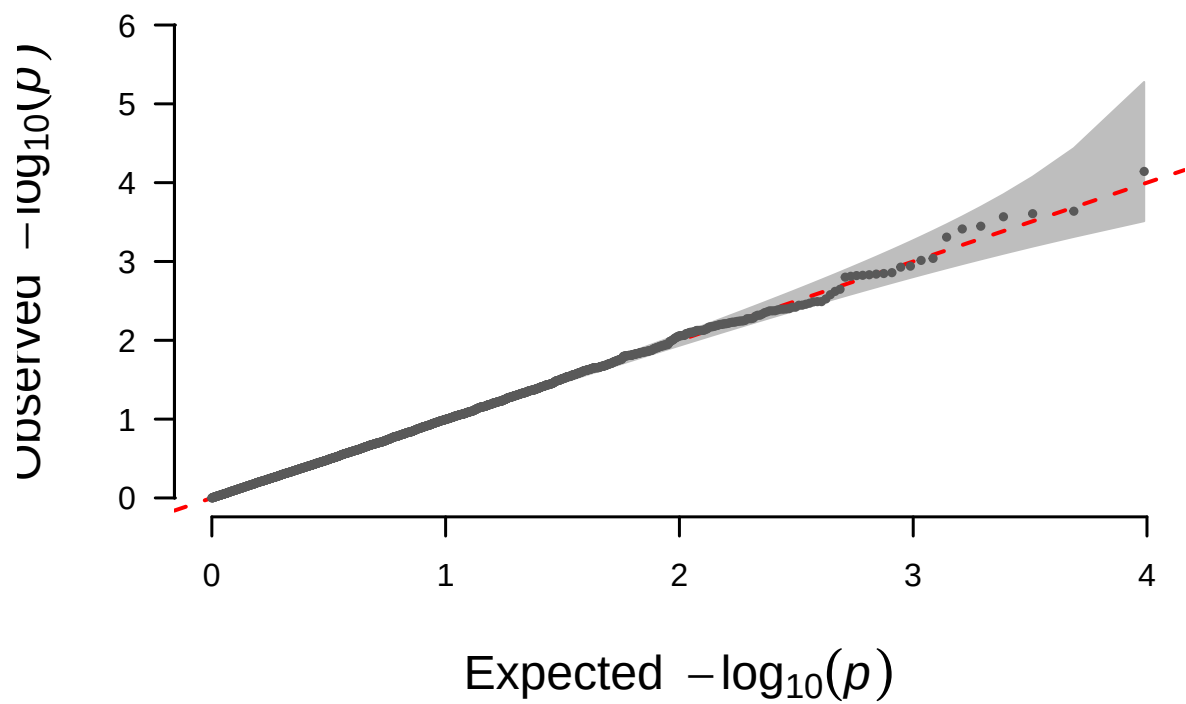


Rectangular Manhattan plotting MLMM.



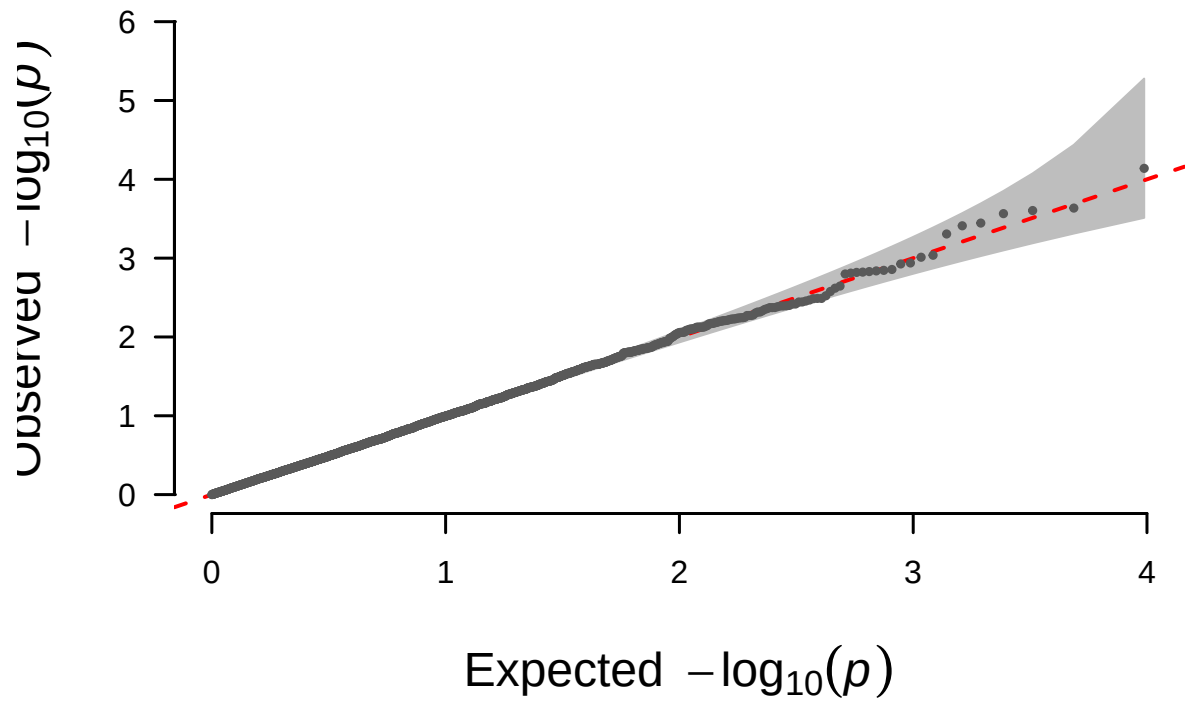
Q-Q plotting BLINK.

BLINK



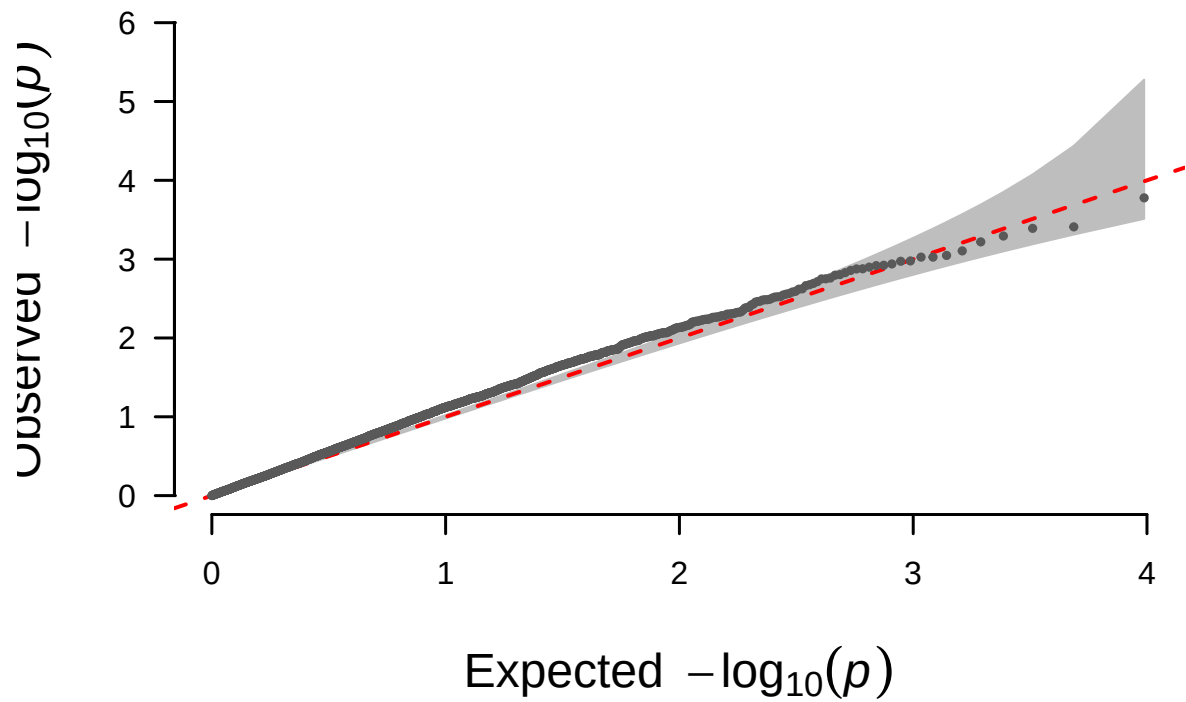
Q-Q plotting FarmCPU.

FarmCPU



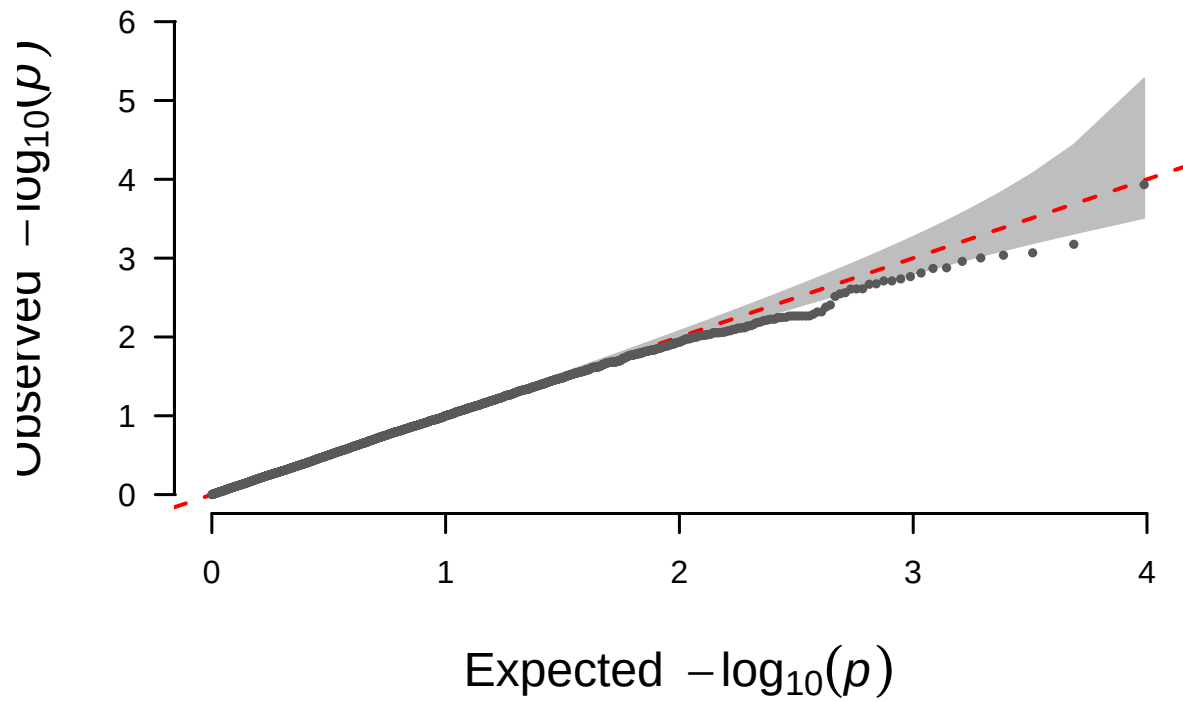
Q-Q plotting GLM.

GLM



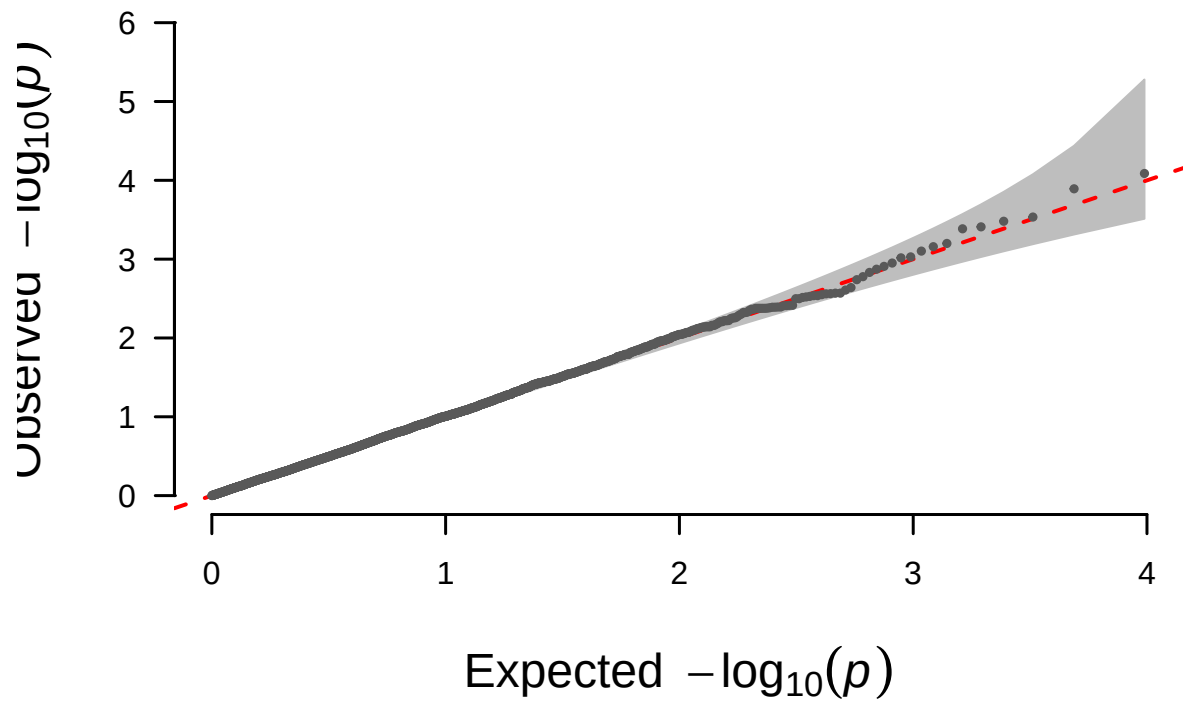
Q-Q plotting MLM.

MLM



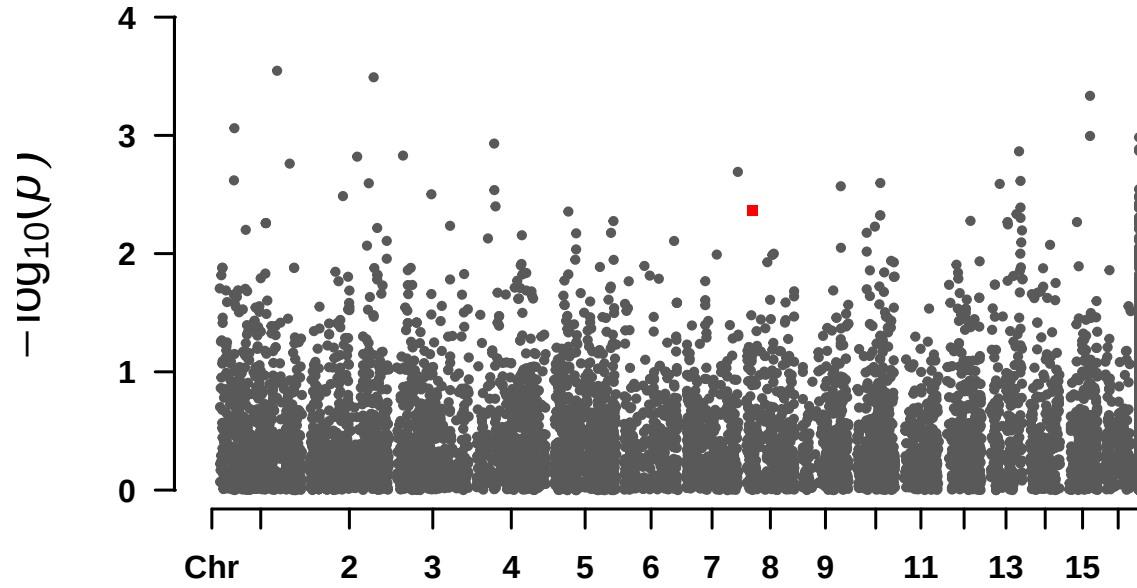
Q-Q plotting MLMM.

MLMM

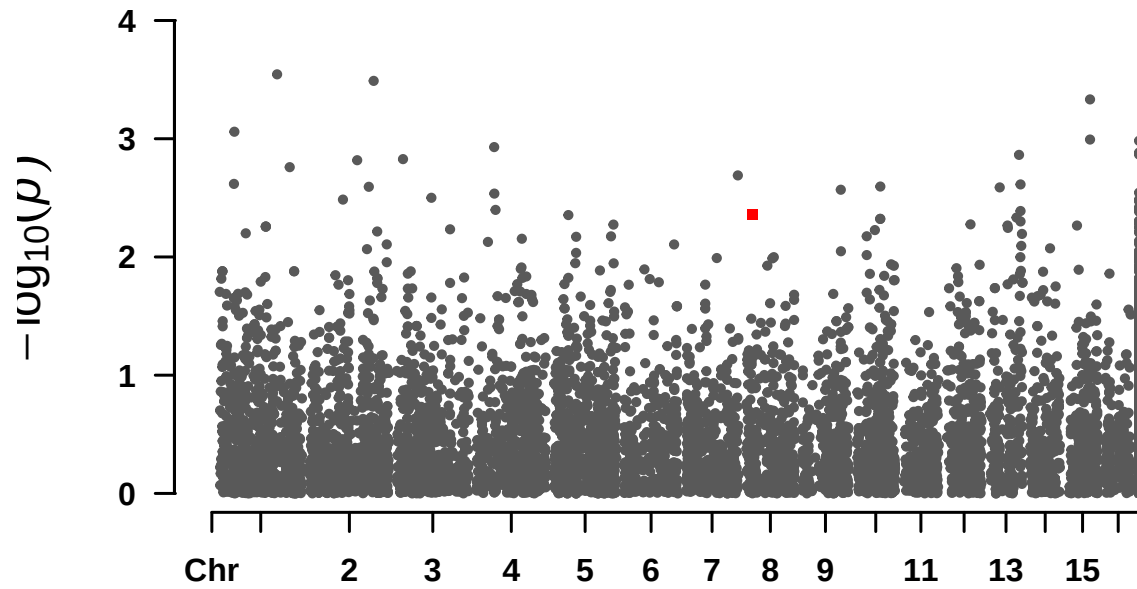


NN

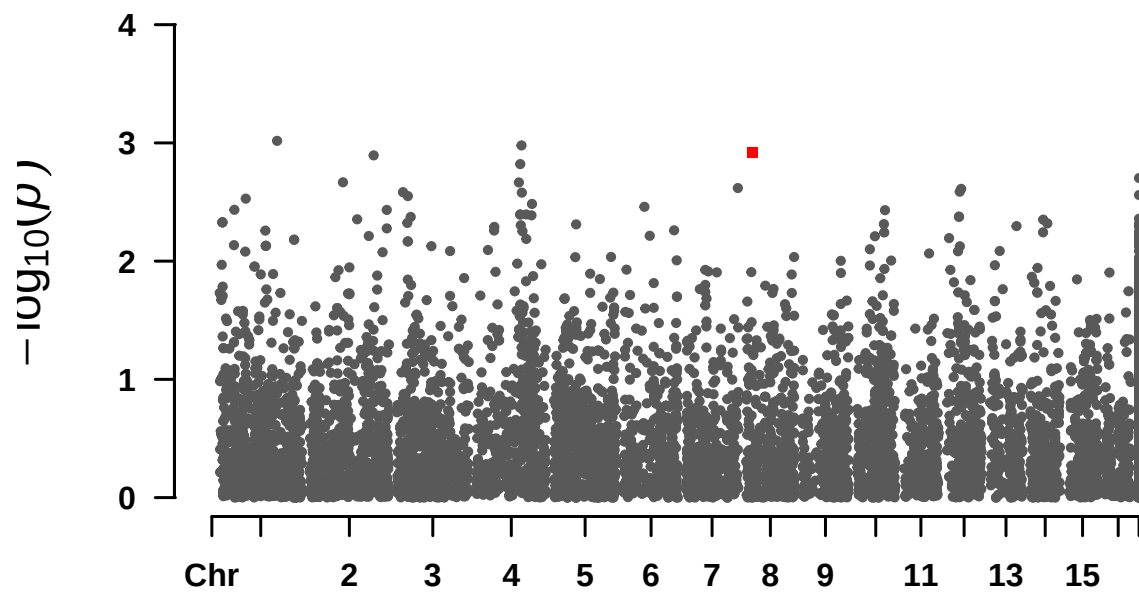
Rectangular Manhattan plotting BLINK.



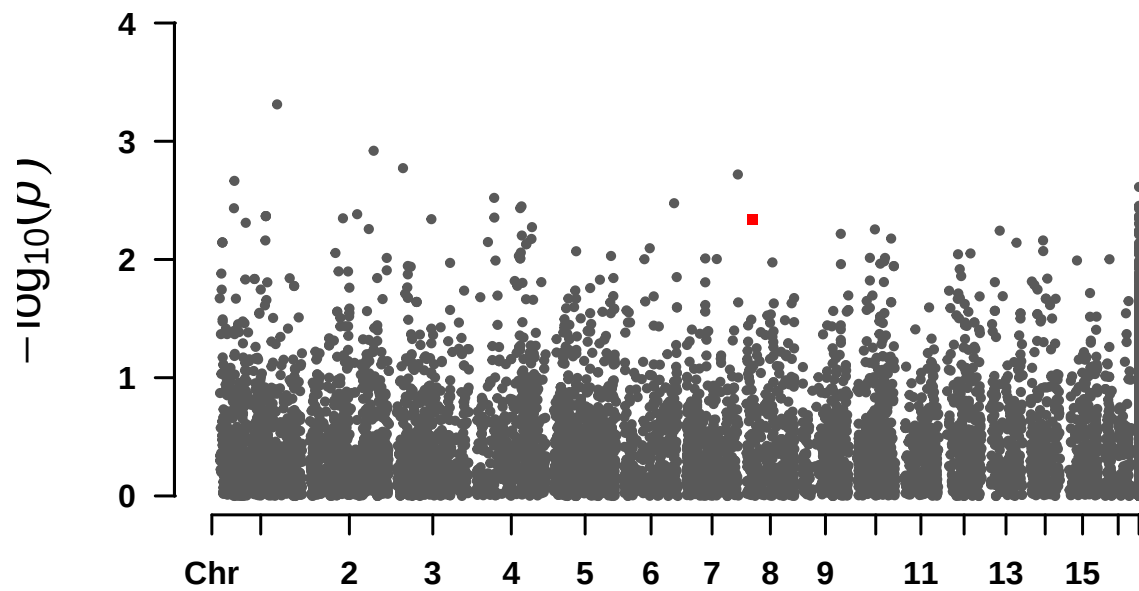
Rectangular Manhattan plotting FarmCPU.



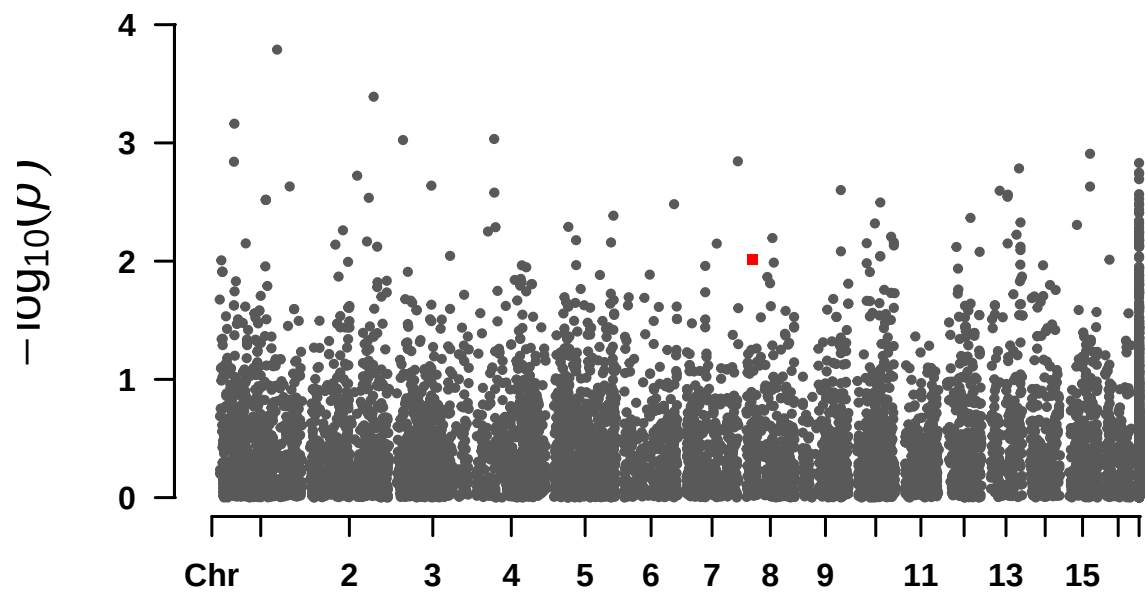
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

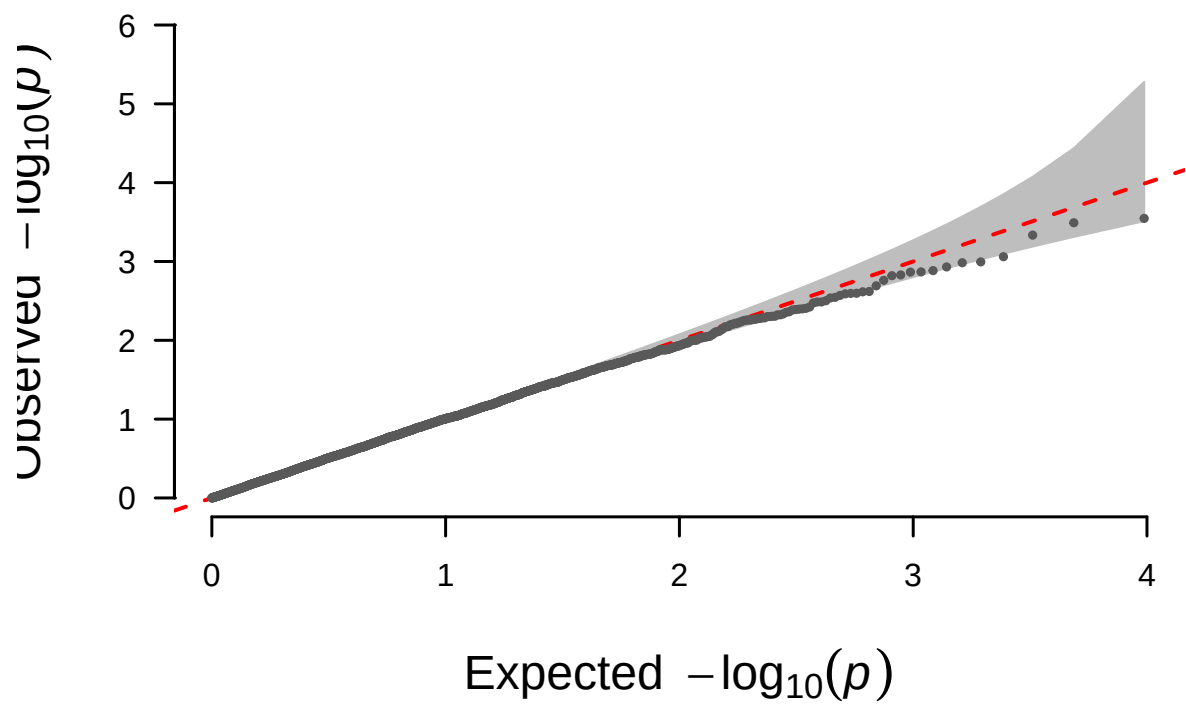


Rectangular Manhattan plotting MLMM.



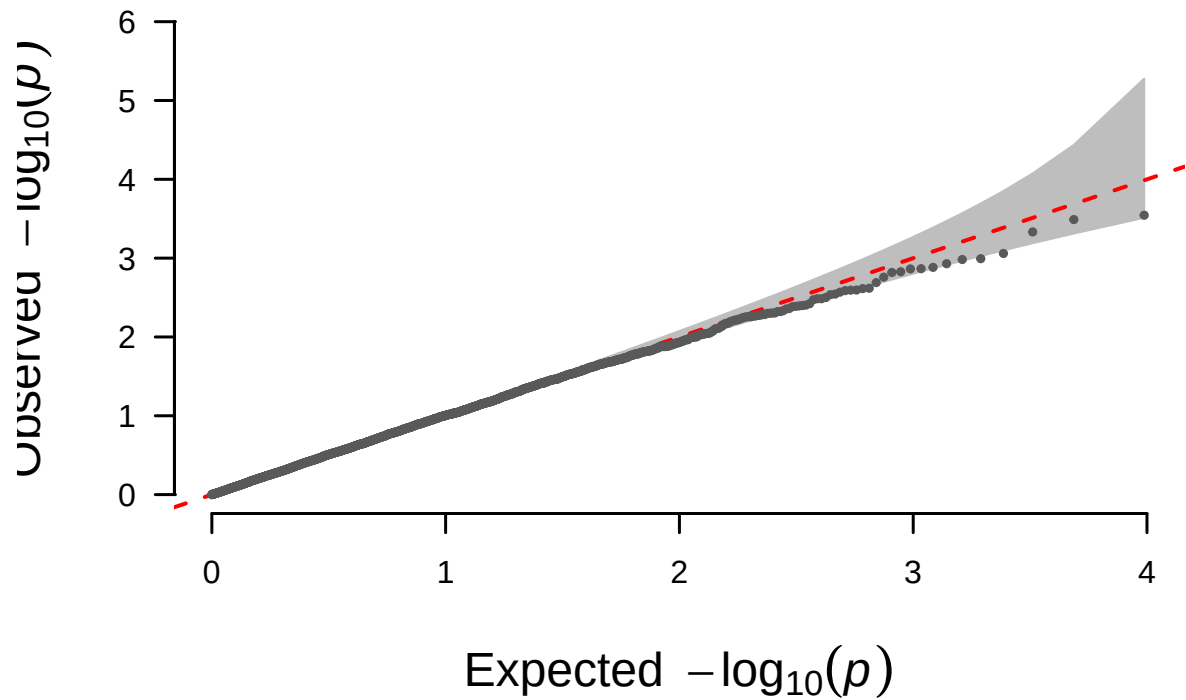
Q-Q plotting BLINK.

BLINK



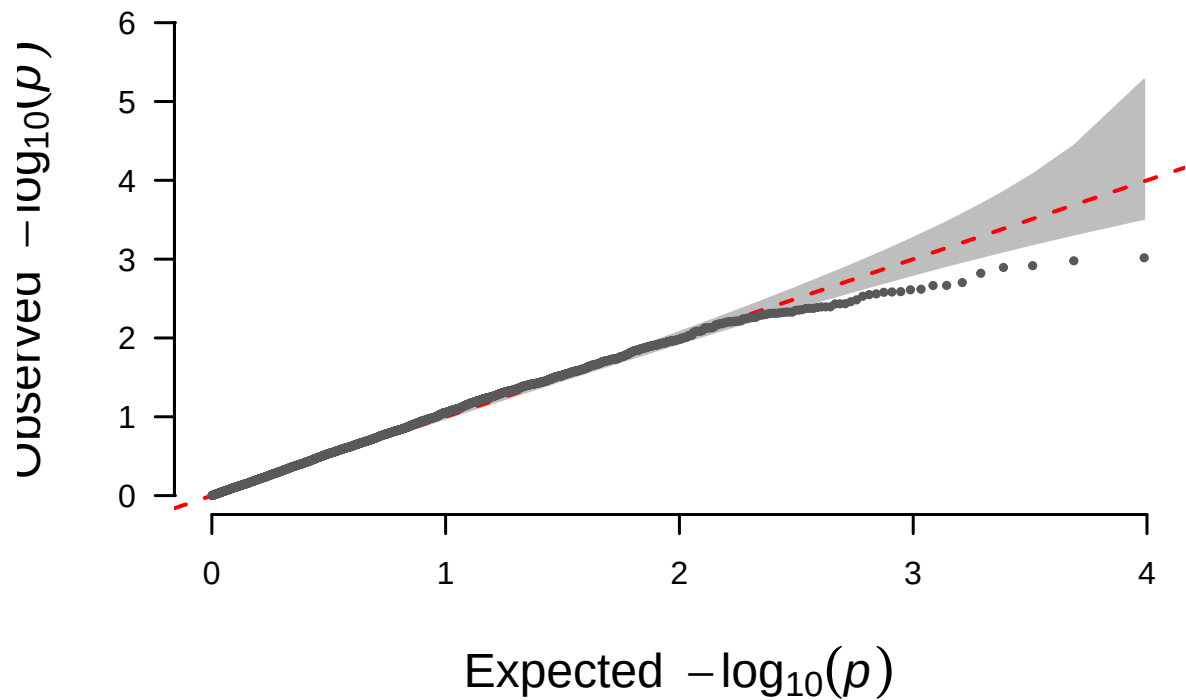
Q-Q plotting FarmCPU.

FarmCPU



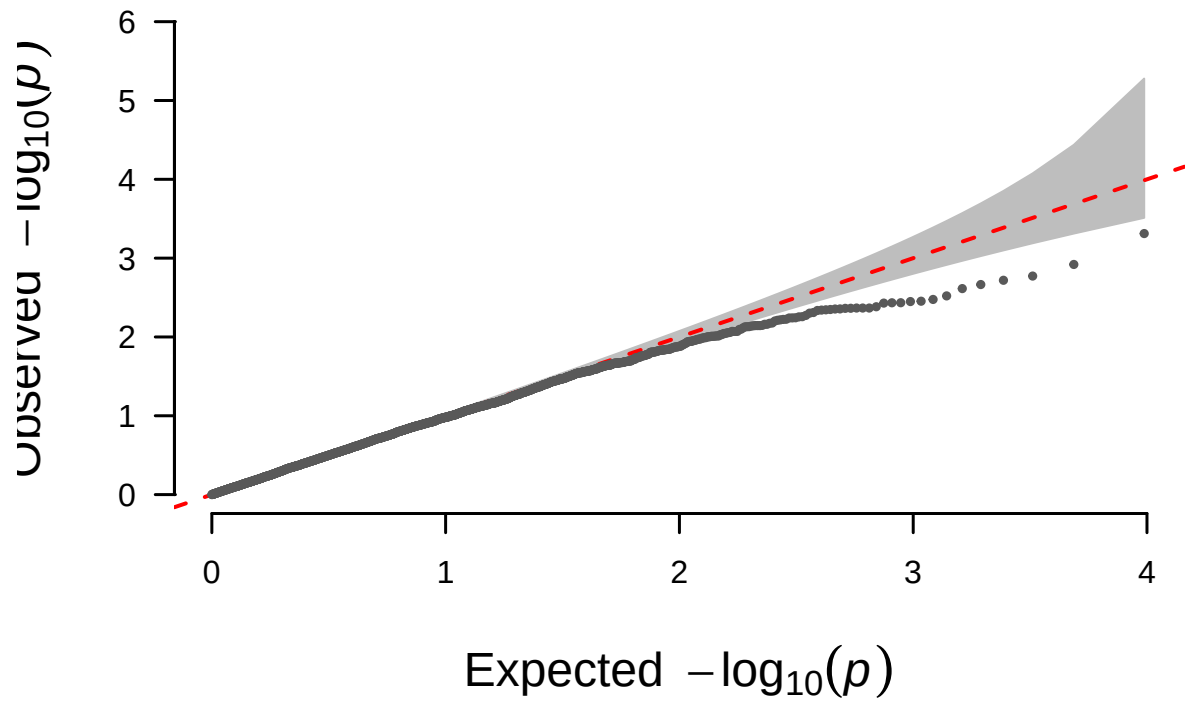
Q-Q plotting GLM.

GLM



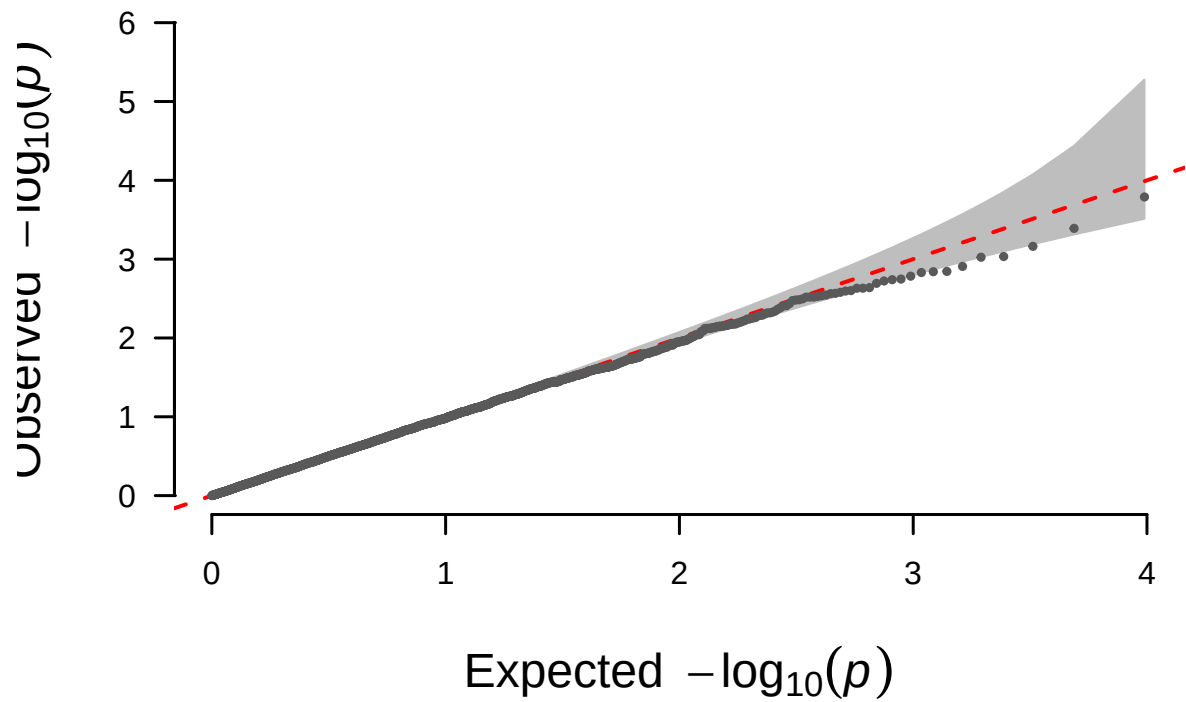
Q-Q plotting MLM.

MLM



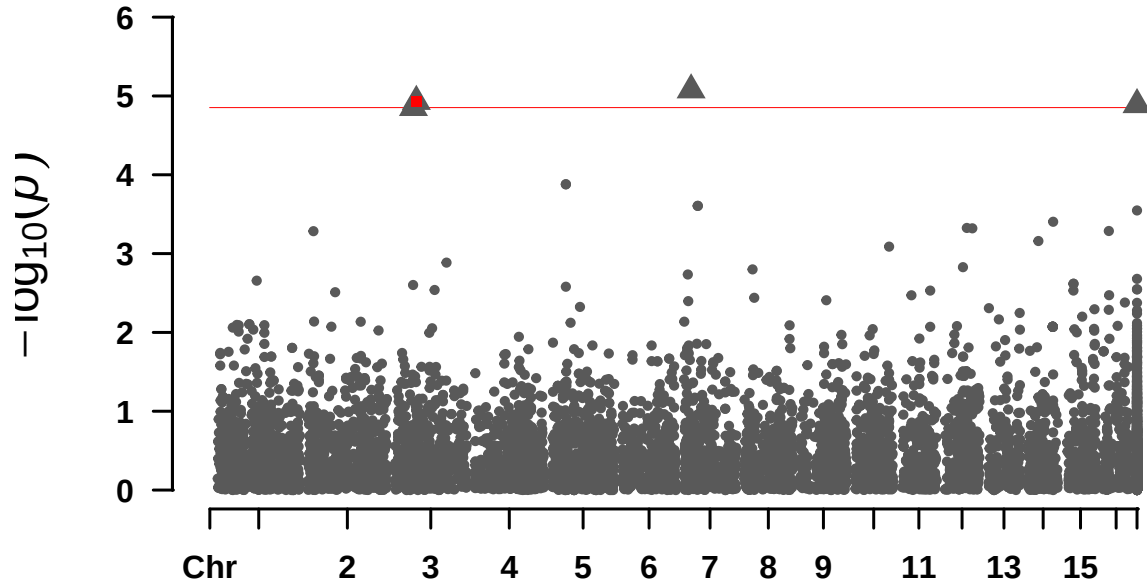
Q-Q plotting MLMM.

MLMM

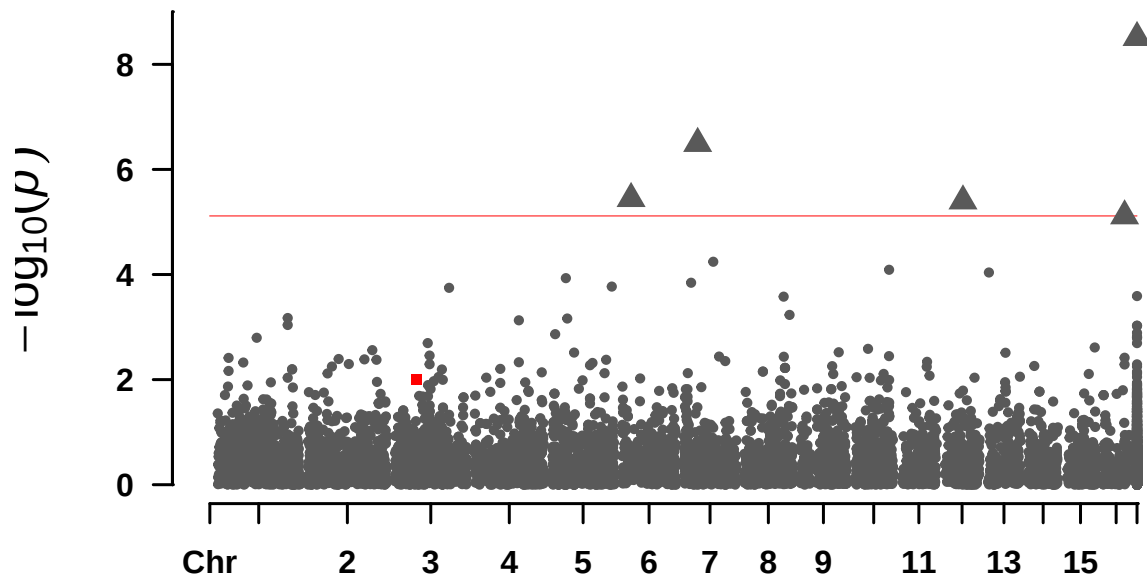


OC

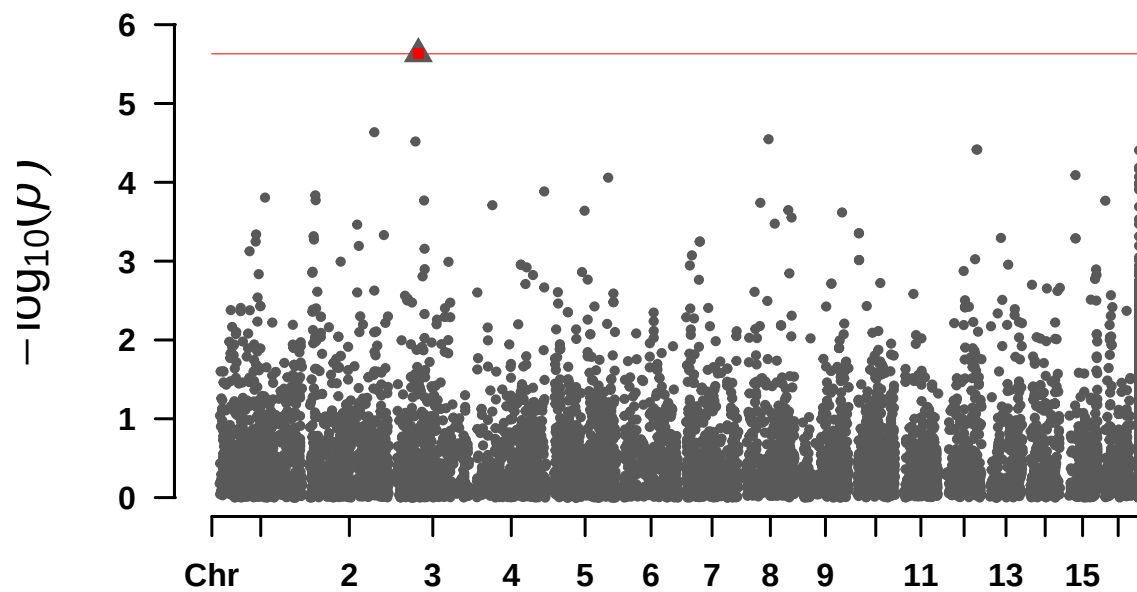
Rectangular Manhattan plotting BLINK.



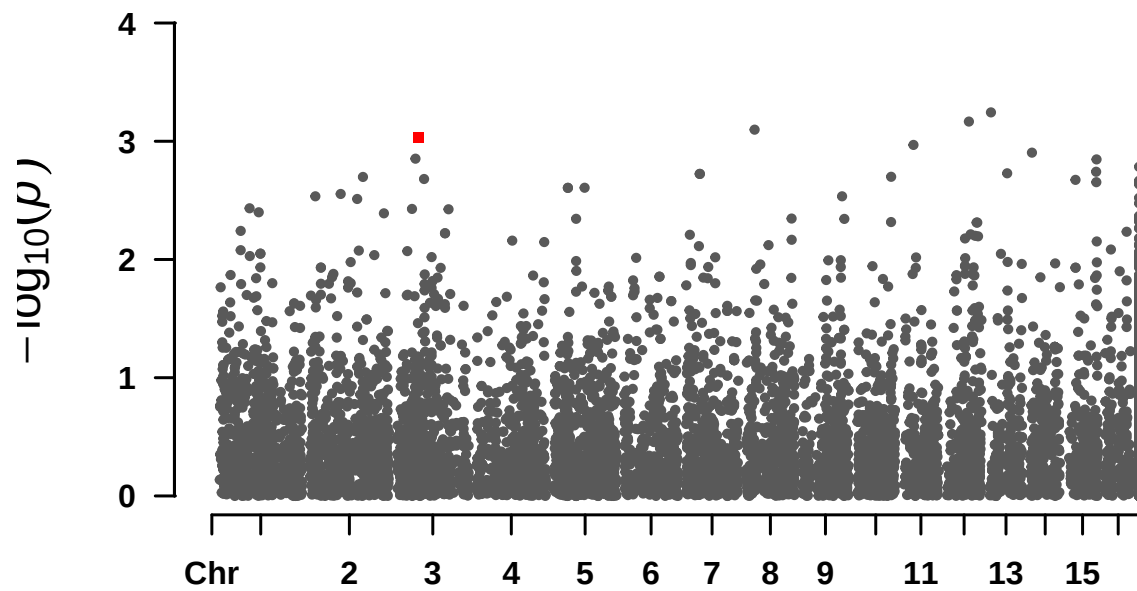
Rectangular Manhattan plotting FarmCPU.



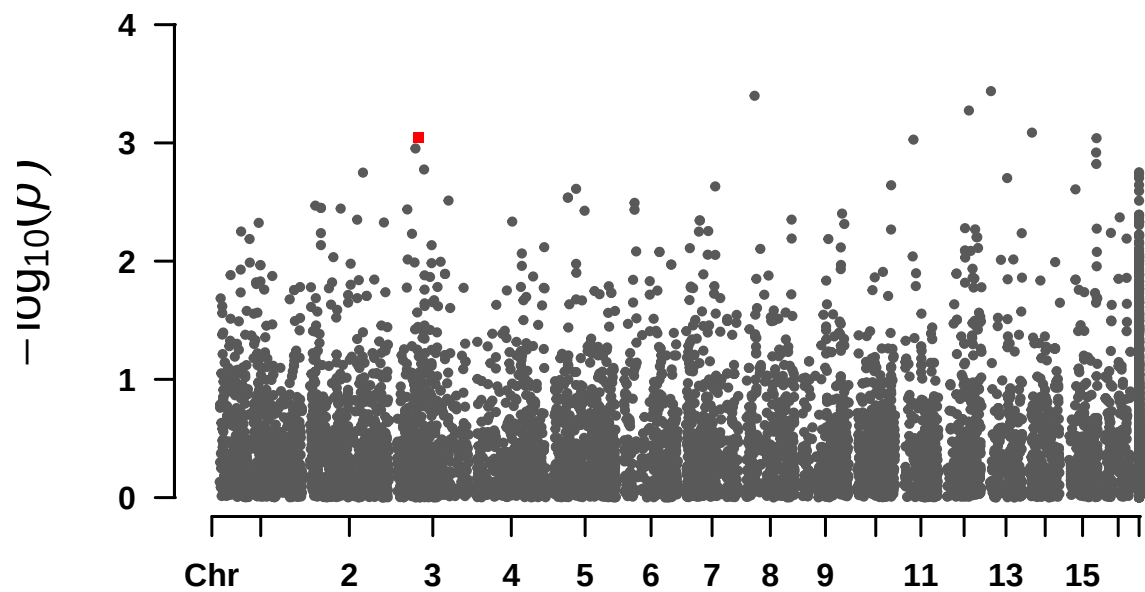
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

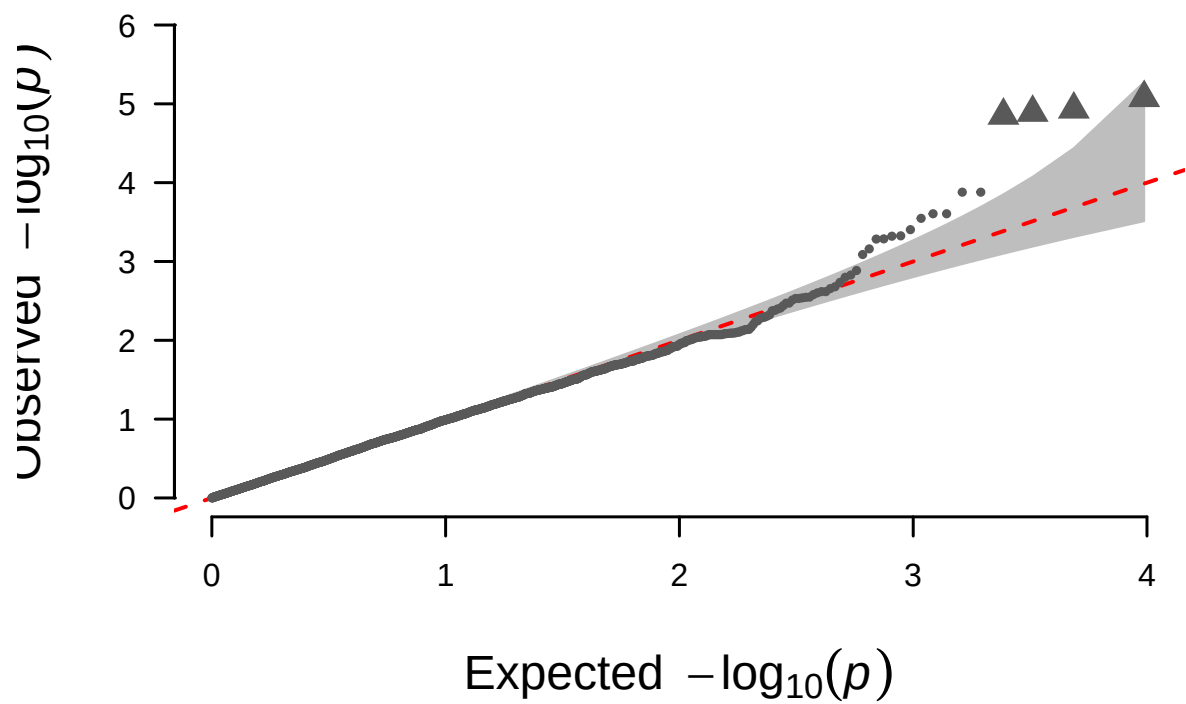


Rectangular Manhattan plotting MLMM.



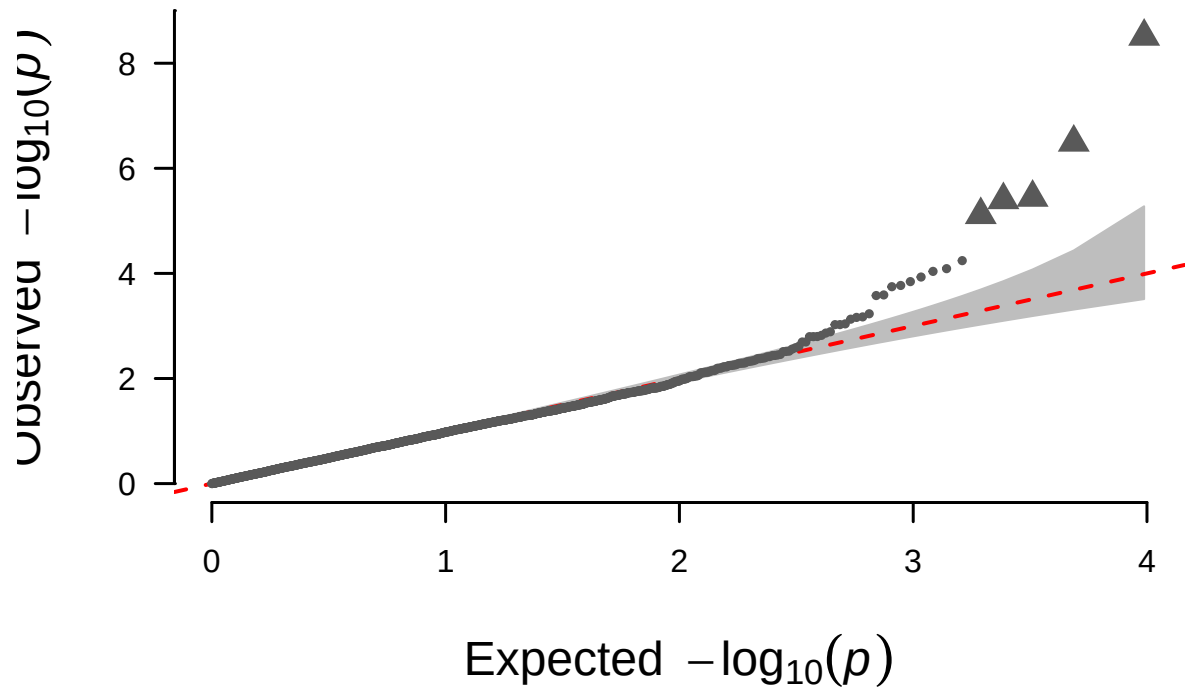
Q-Q plotting BLINK.

BLINK



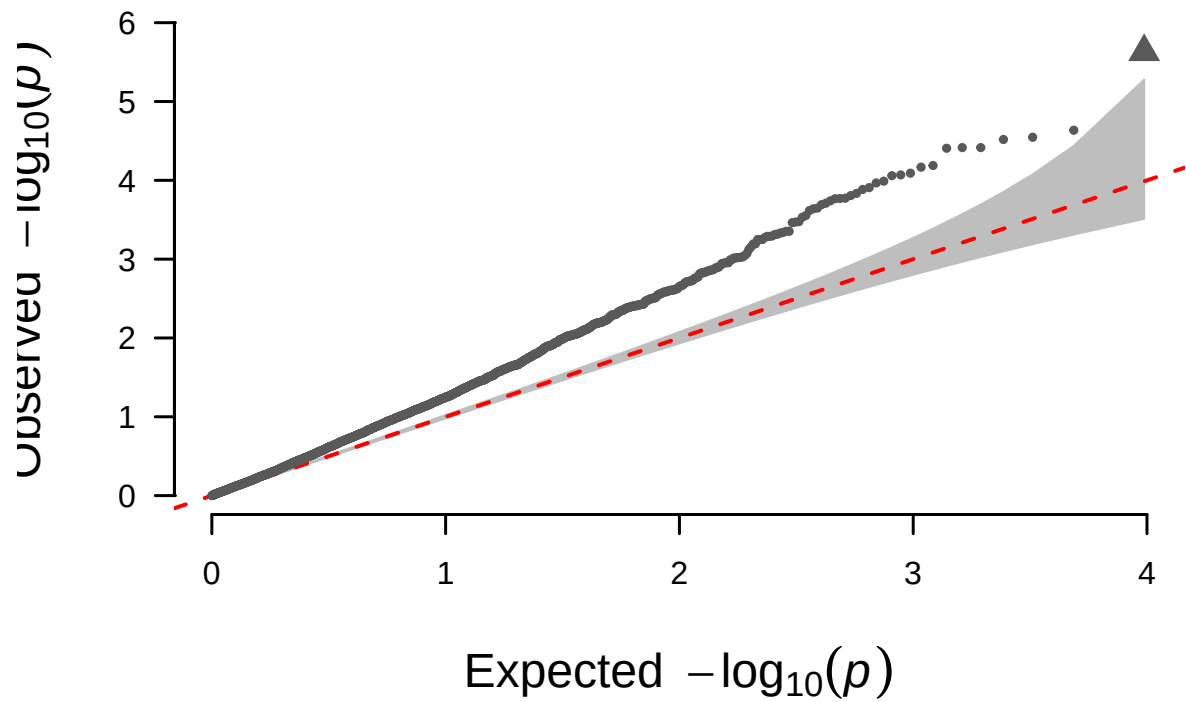
Q-Q plotting FarmCPU.

FarmCPU



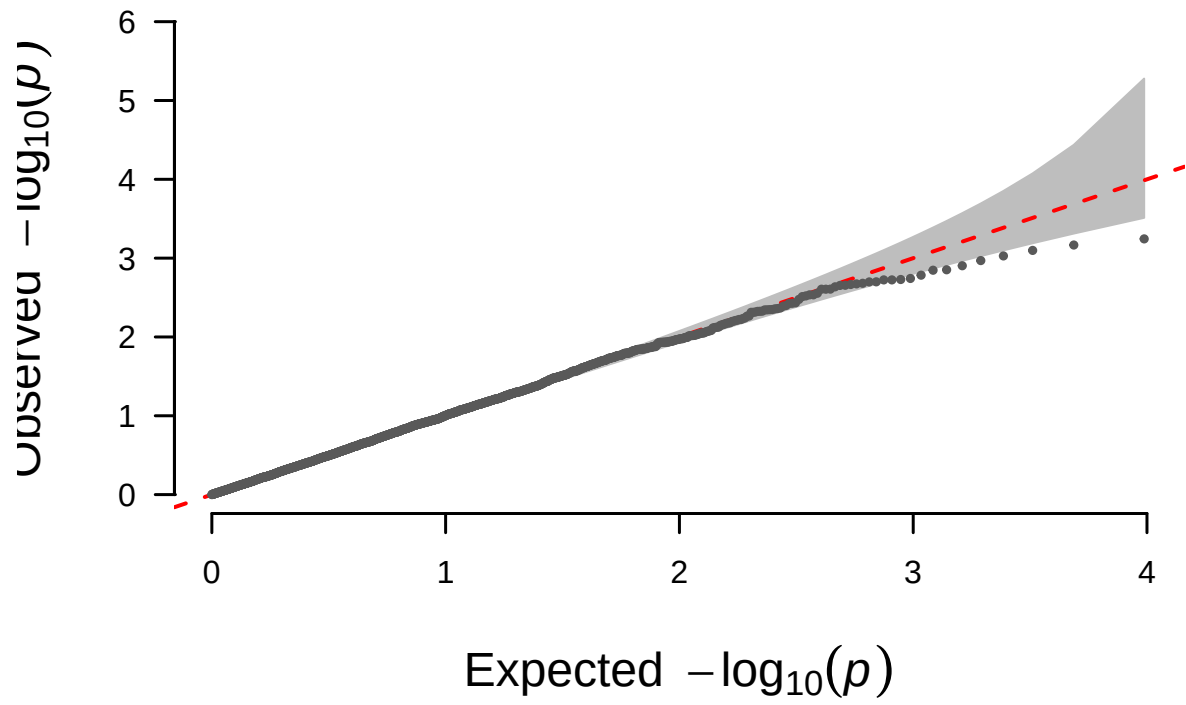
Q-Q plotting GLM.

GLM



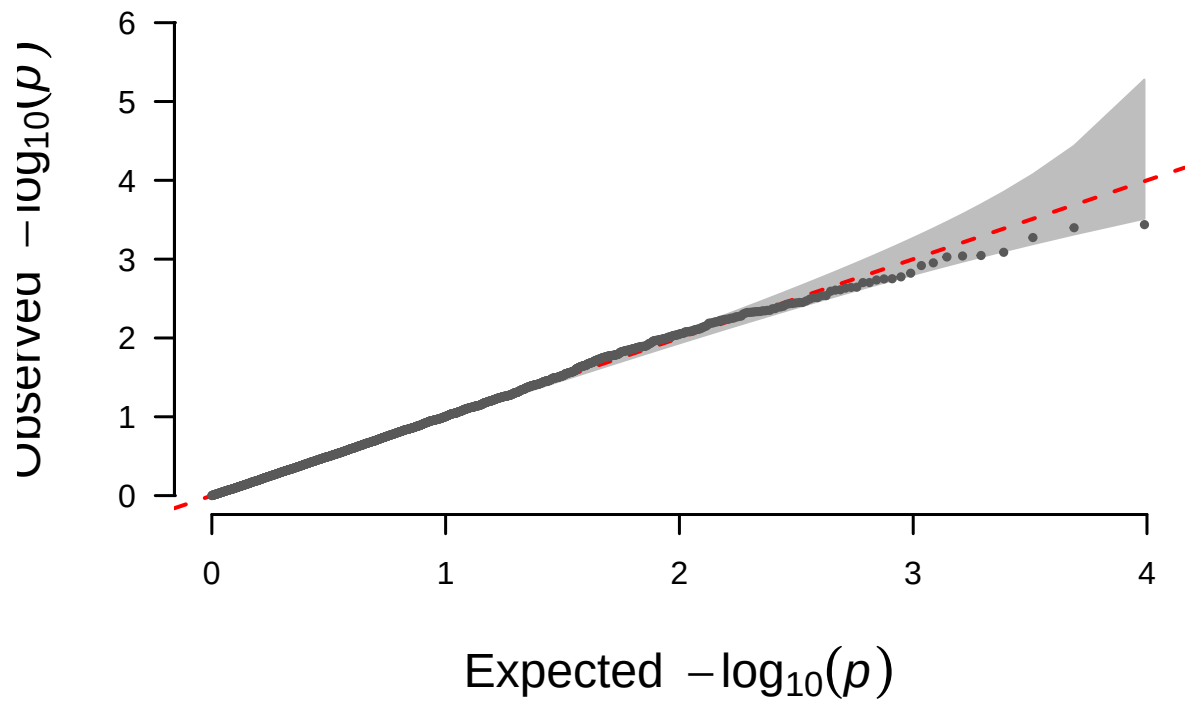
Q-Q plotting MLM.

MLM



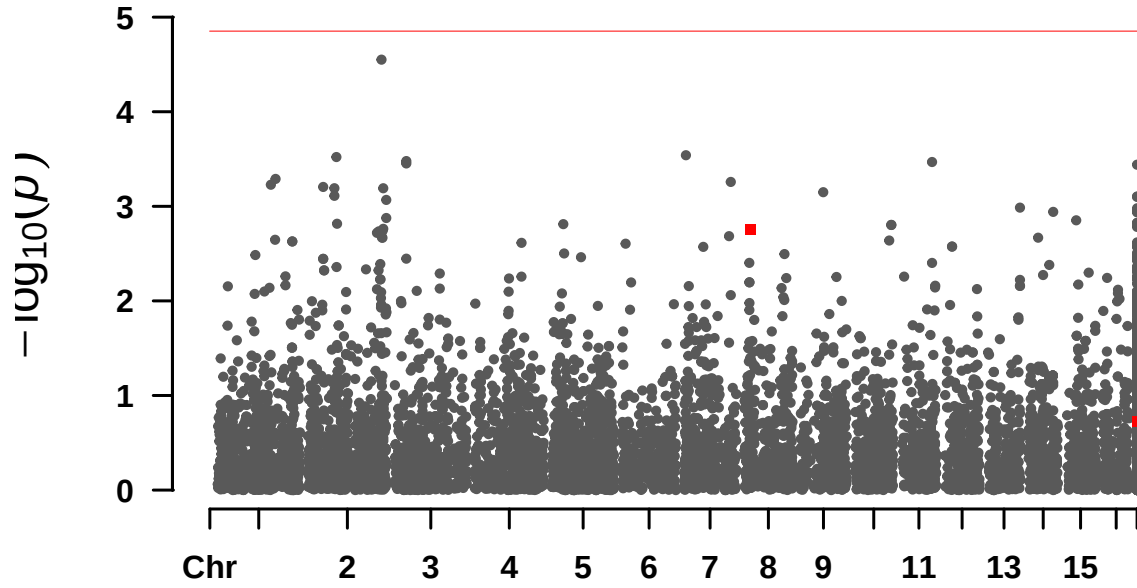
Q-Q plotting MLMM.

MLMM

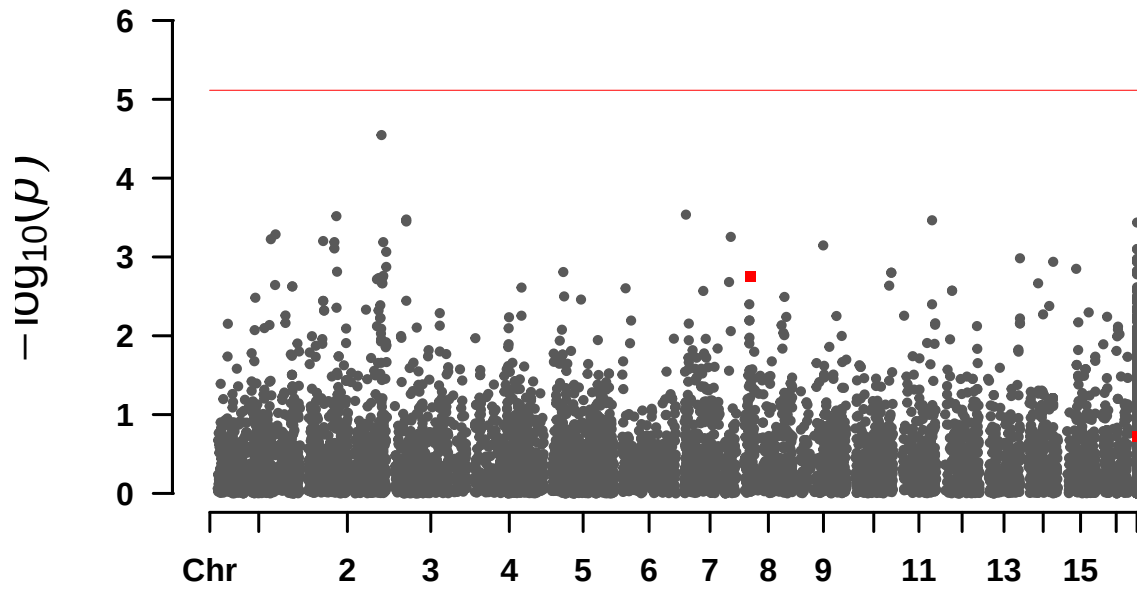


HDM

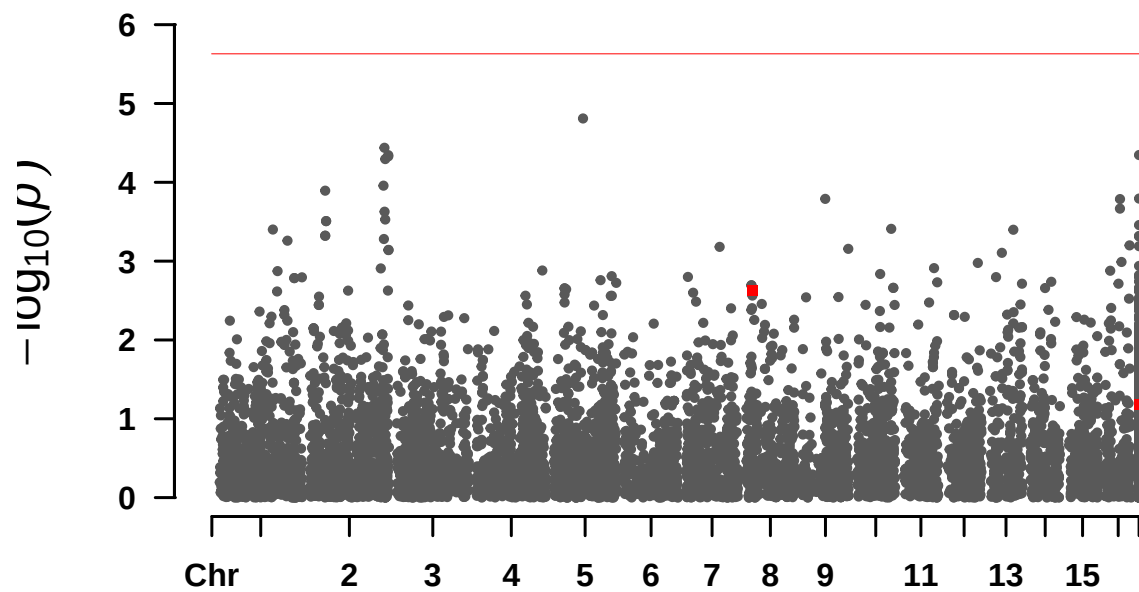
Rectangular Manhattan plotting BLINK.



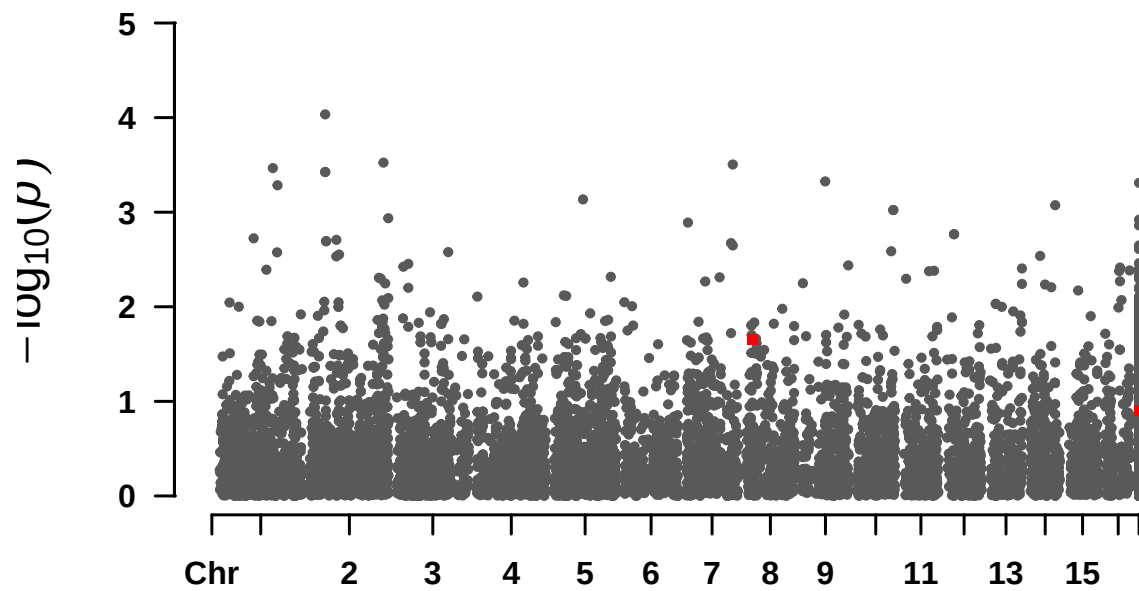
Rectangular Manhattan plotting FarmCPU.



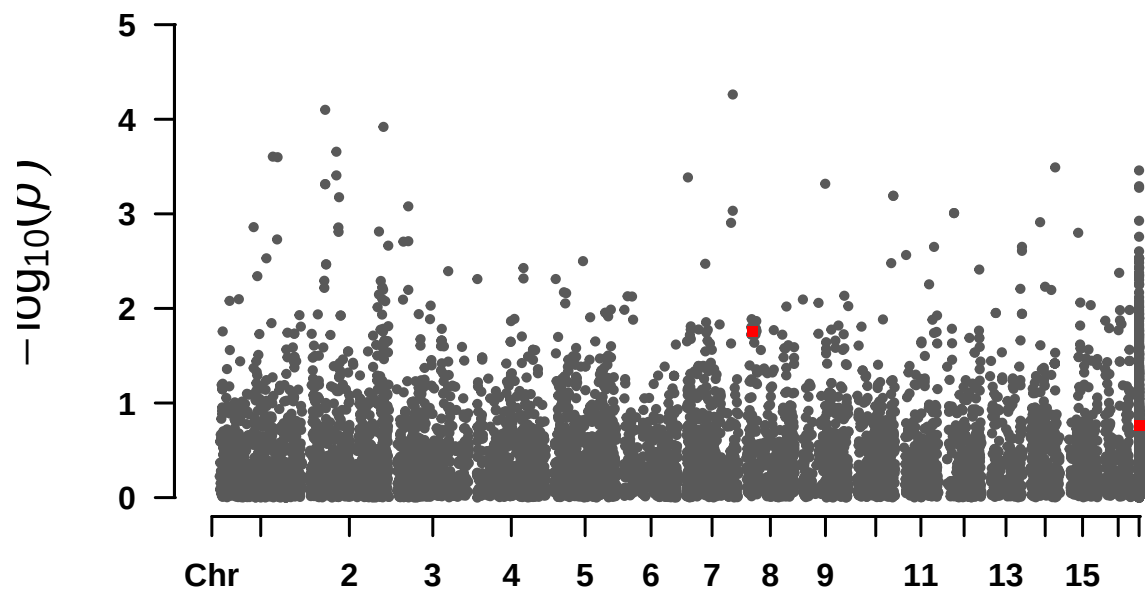
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

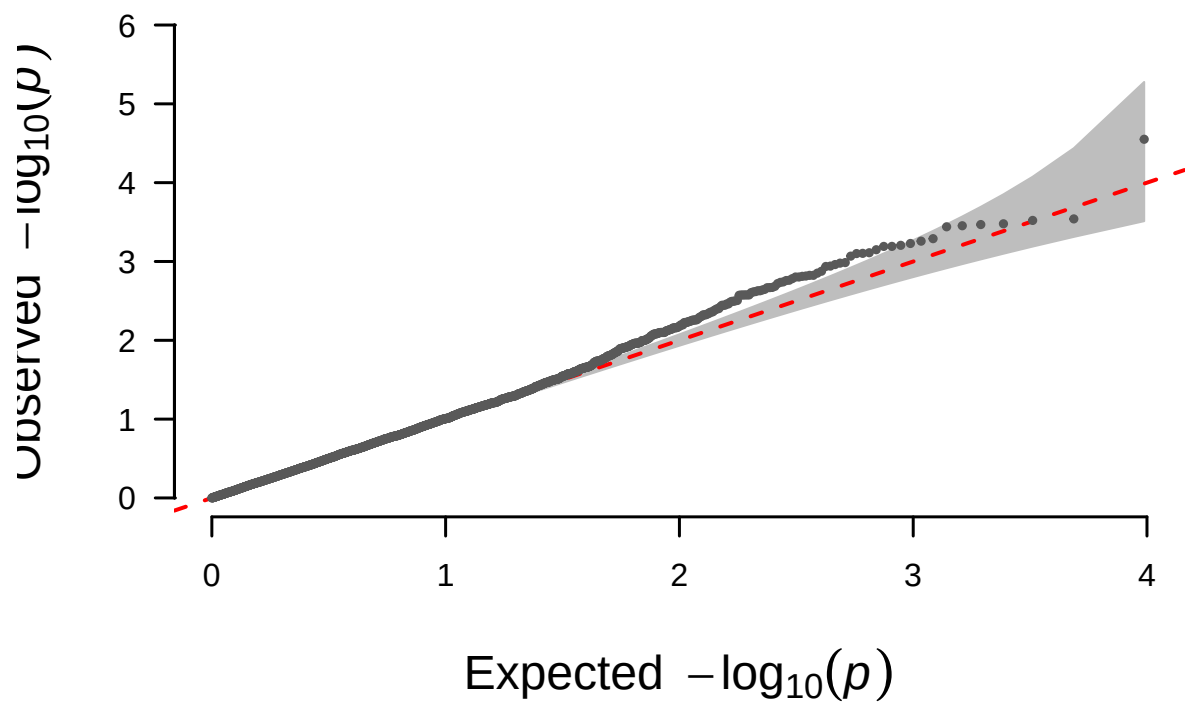


Rectangular Manhattan plotting MLMM.



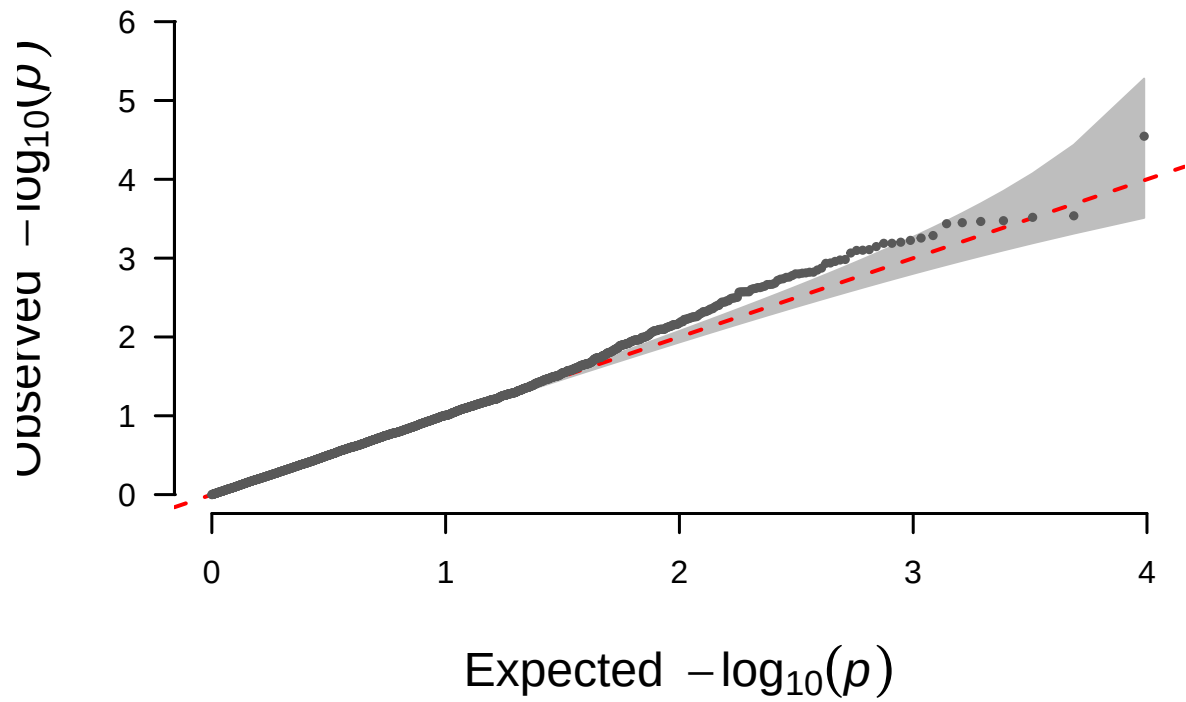
Q-Q plotting BLINK.

BLINK



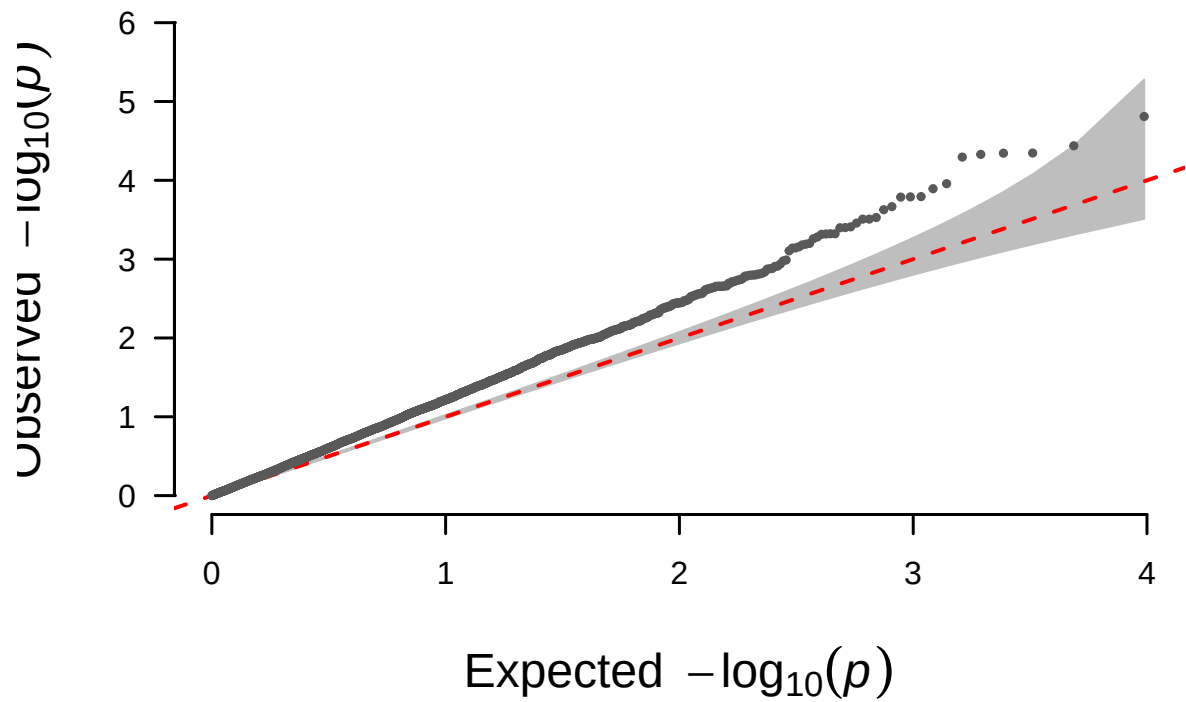
Q-Q plotting FarmCPU.

FarmCPU



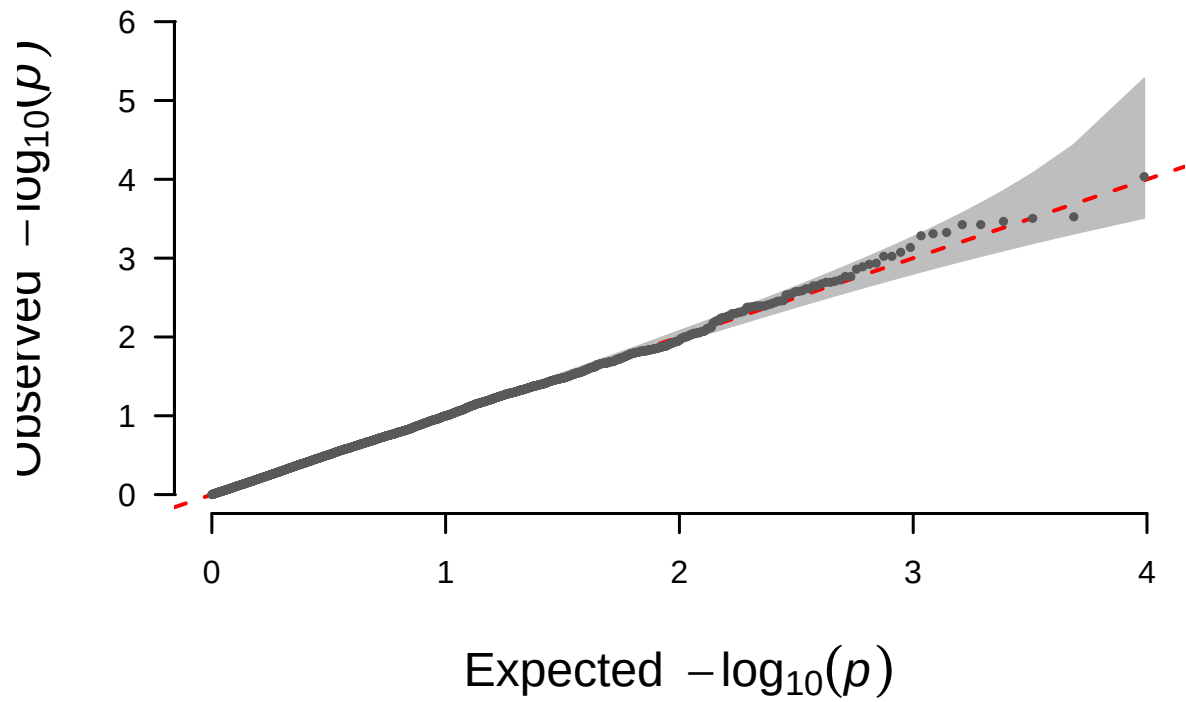
Q-Q plotting GLM.

GLM



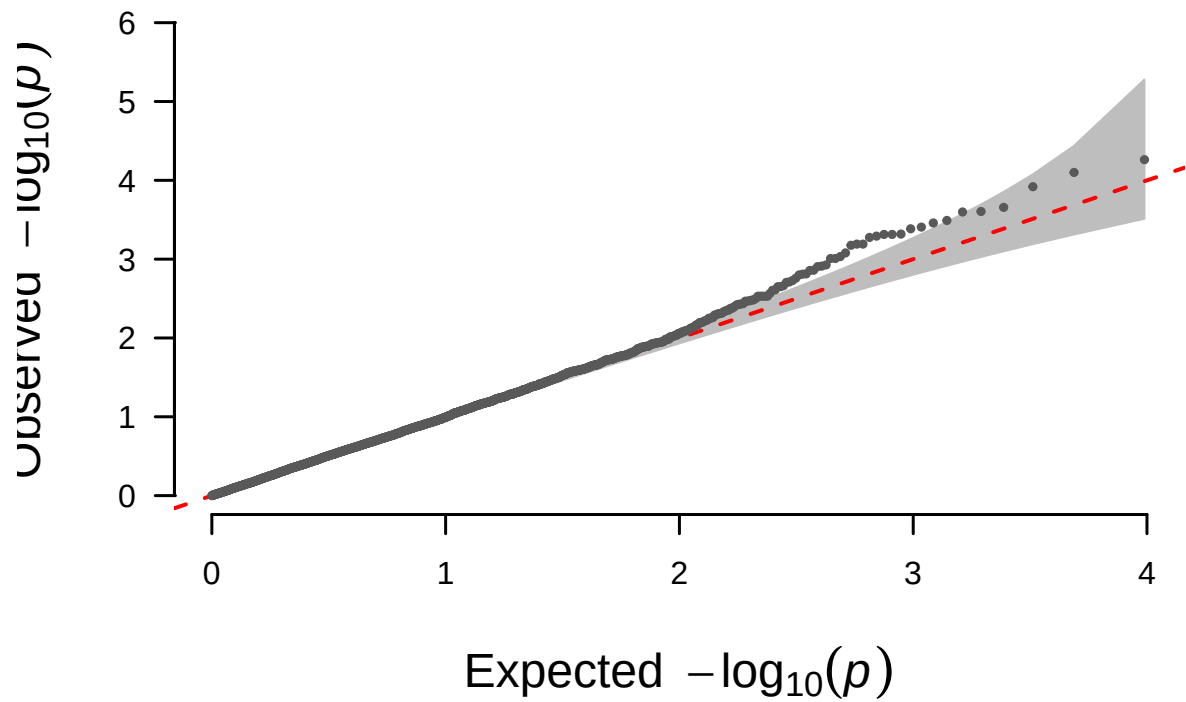
Q-Q plotting MLM.

MLM



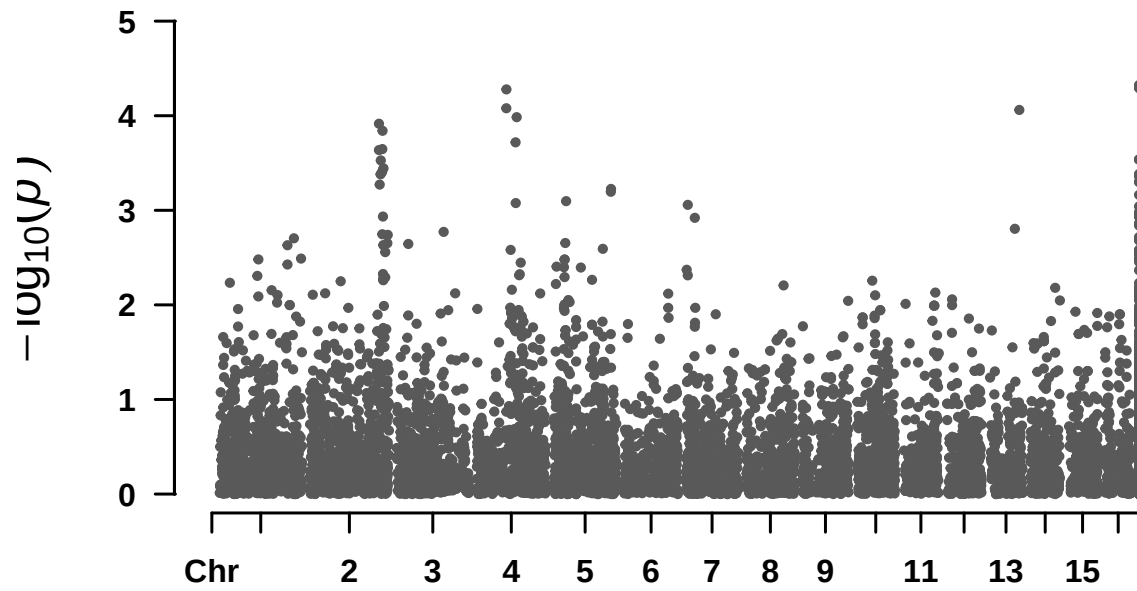
Q-Q plotting MLMM.

MLMM

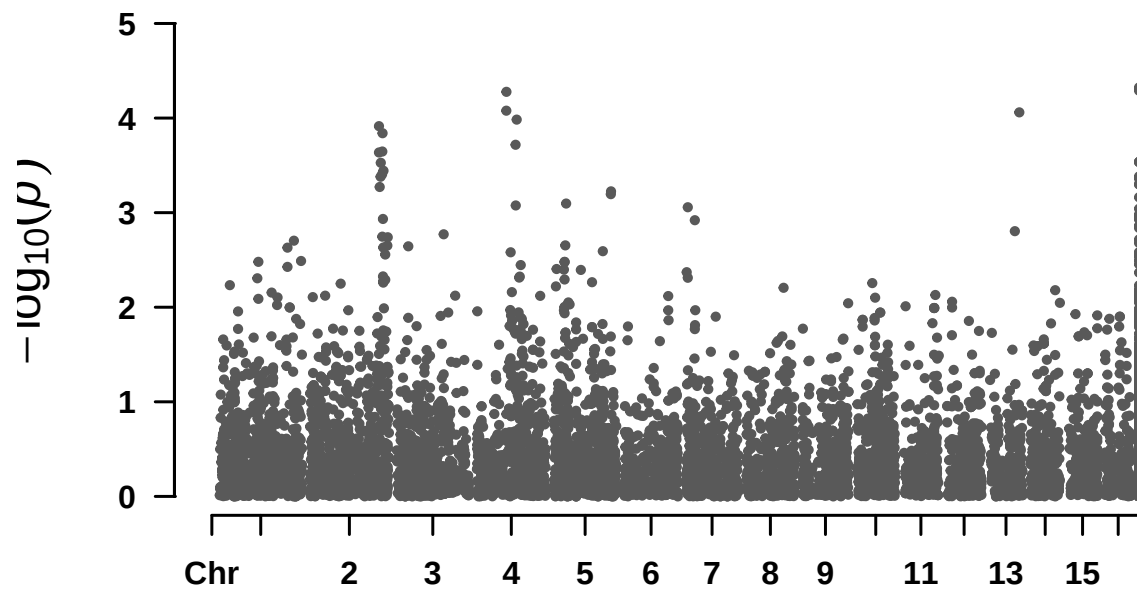


PDM

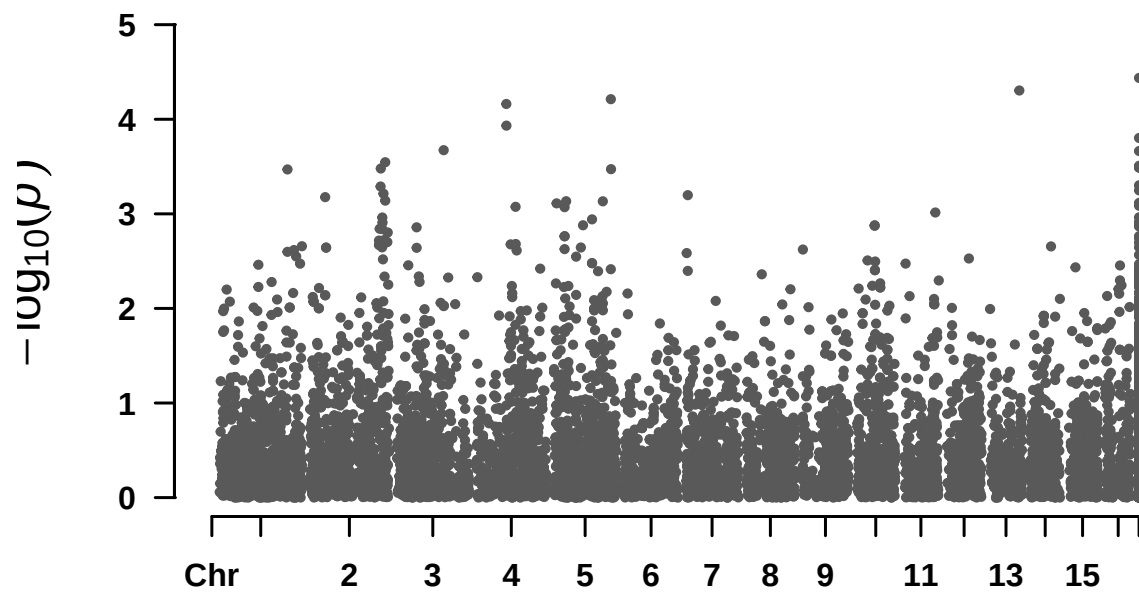
Rectangular Manhattan plotting BLINK.



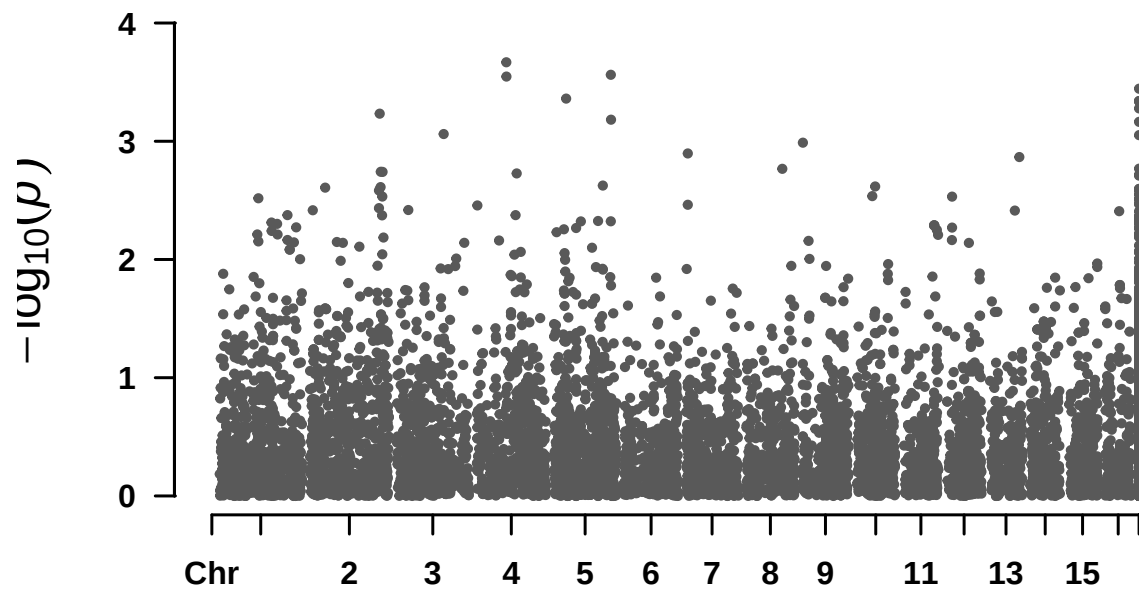
Rectangular Manhattan plotting FarmCPU.



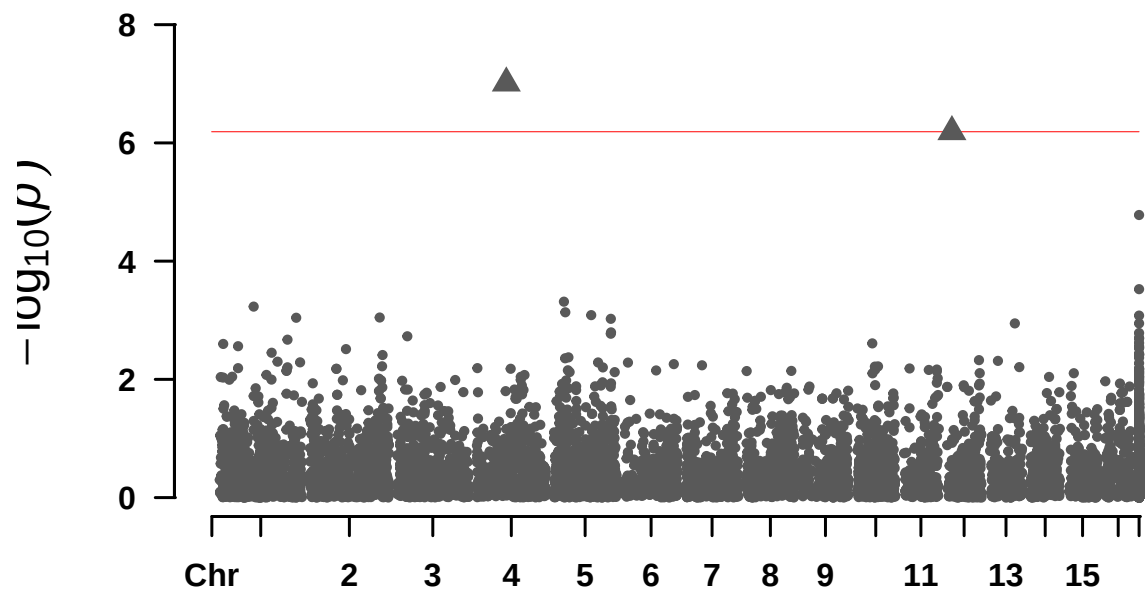
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

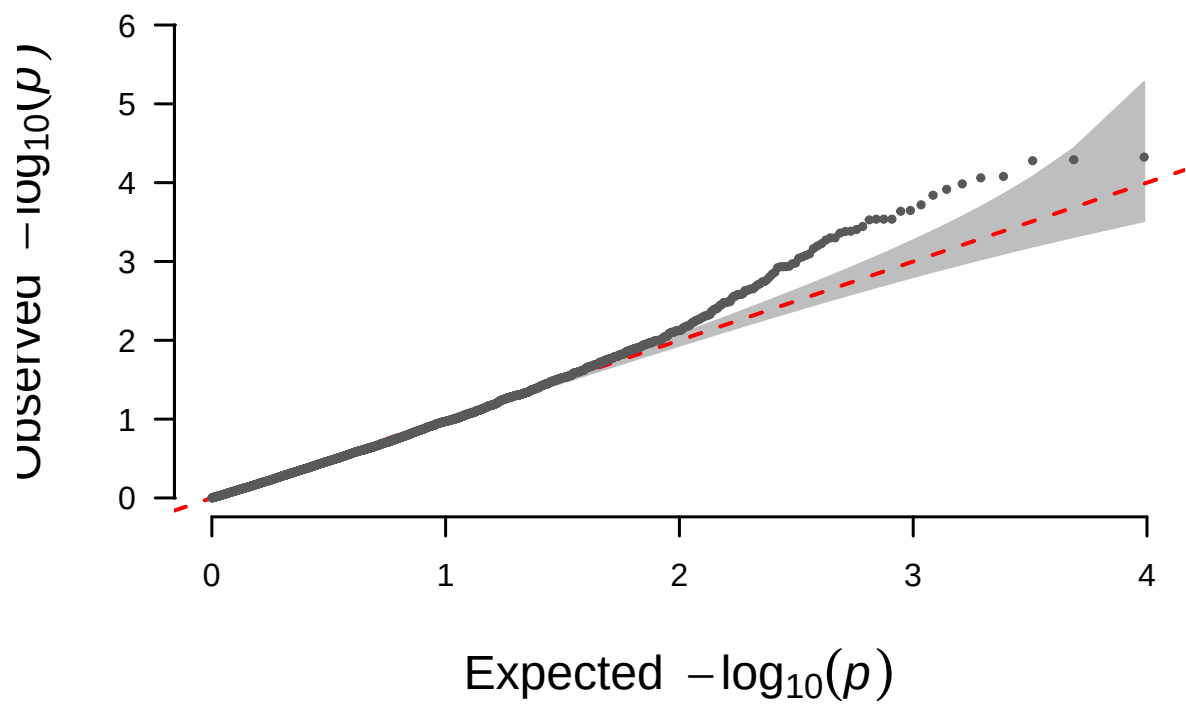


Rectangular Manhattan plotting MLMM.



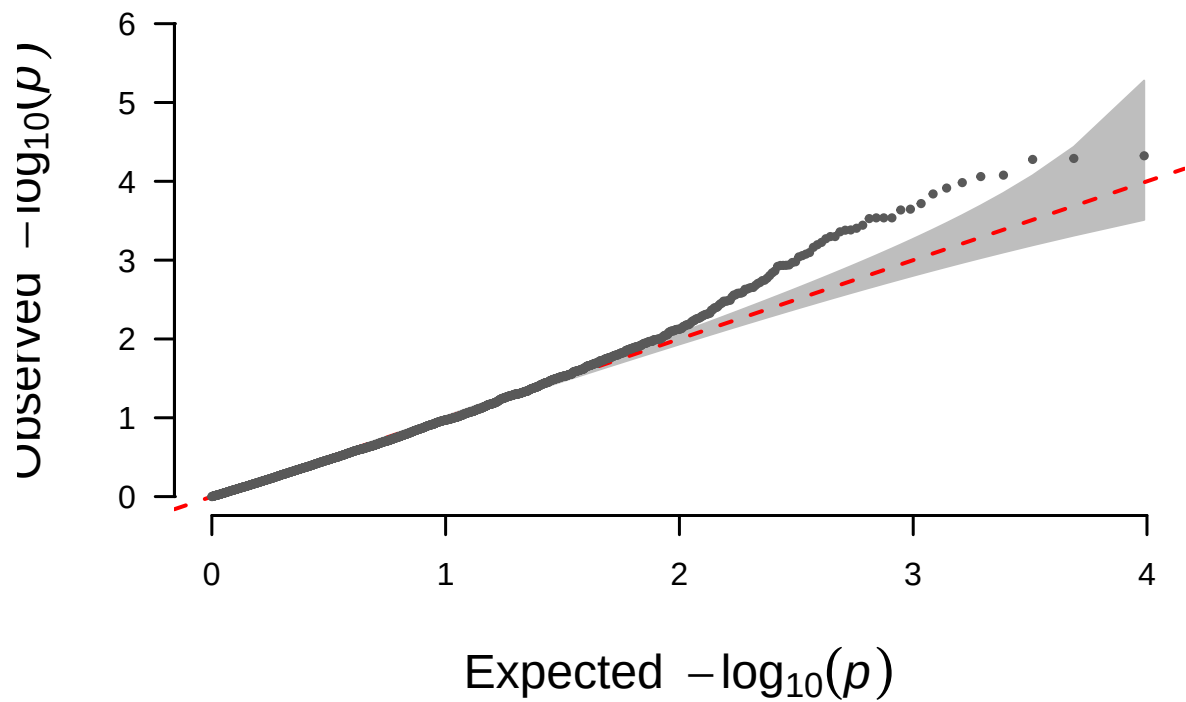
Q-Q plotting BLINK.

BLINK



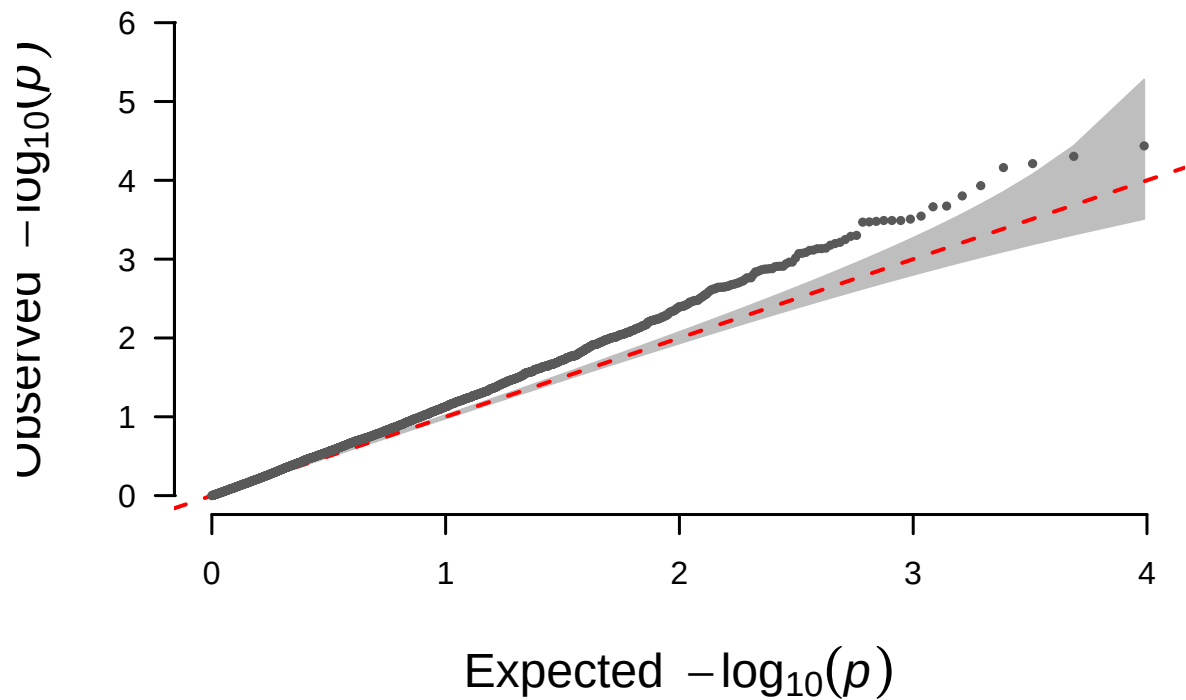
Q-Q plotting FarmCPU.

FarmCPU



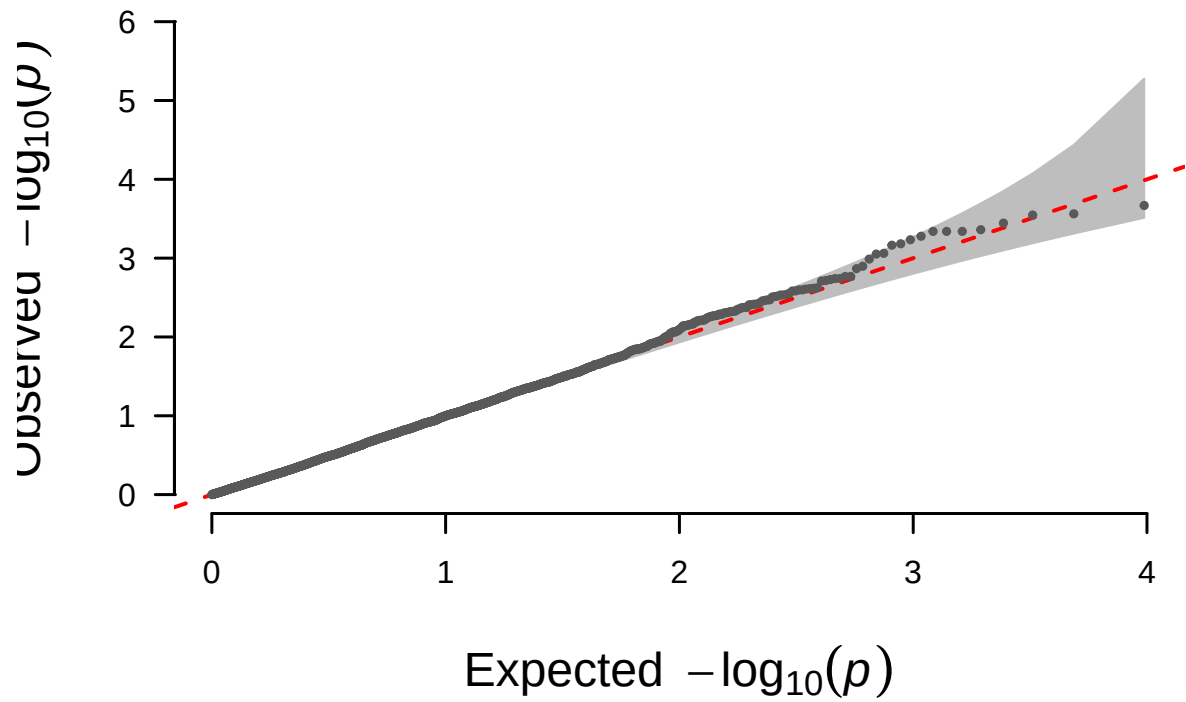
Q-Q plotting GLM.

GLM



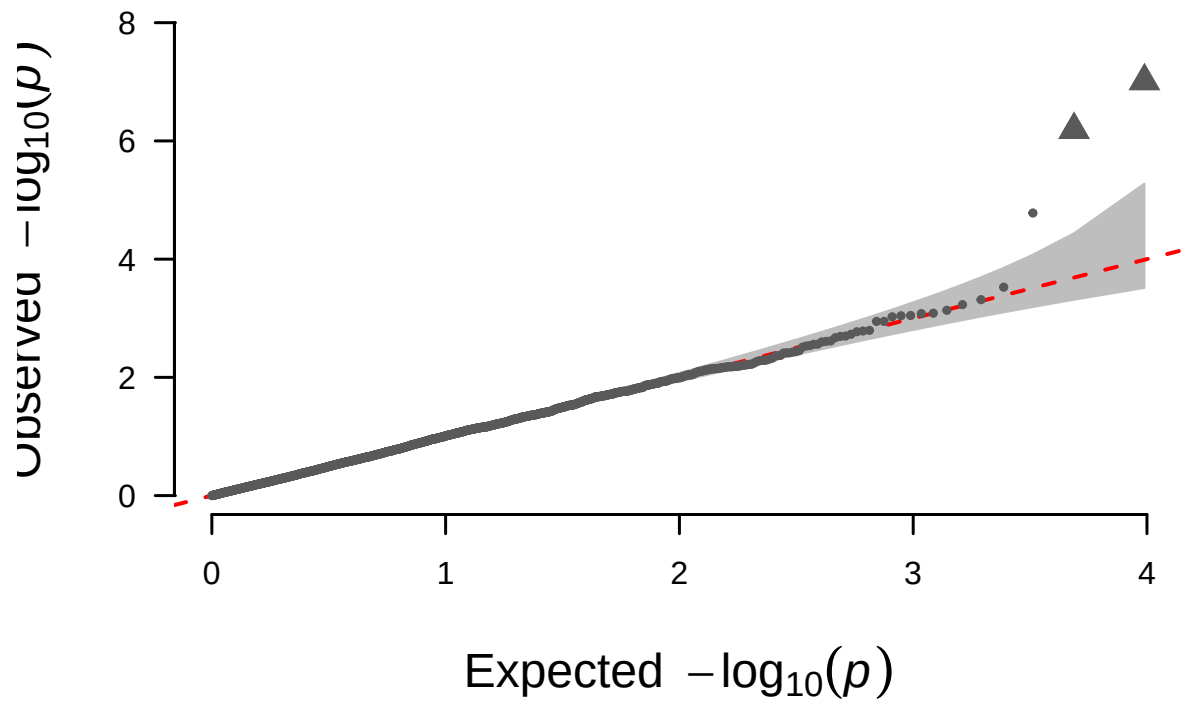
Q-Q plotting MLM.

MLM



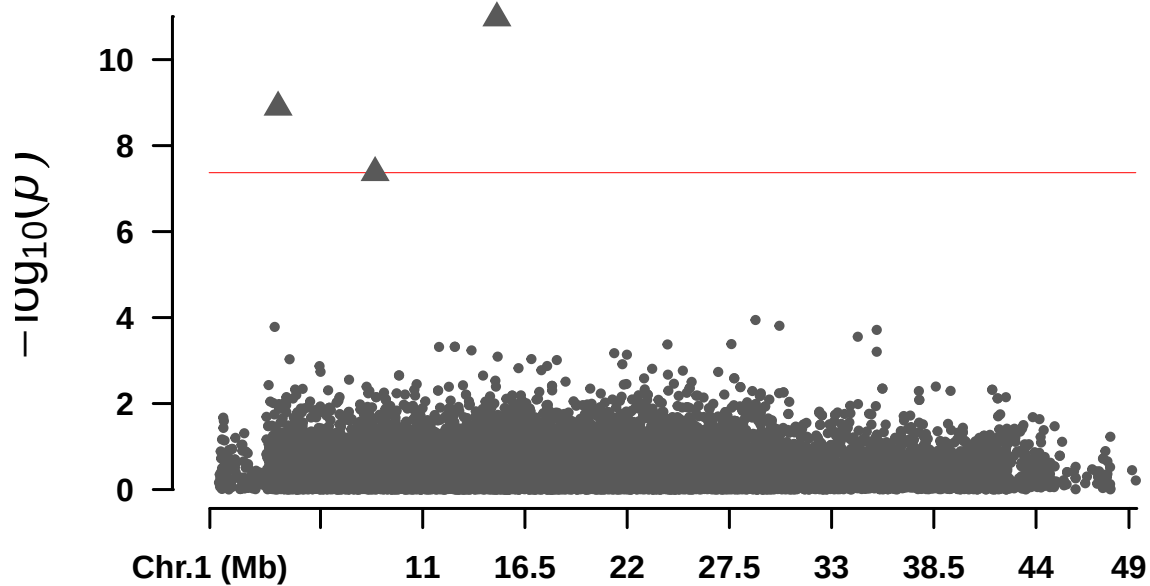
Q-Q plotting MLMM.

MLMM

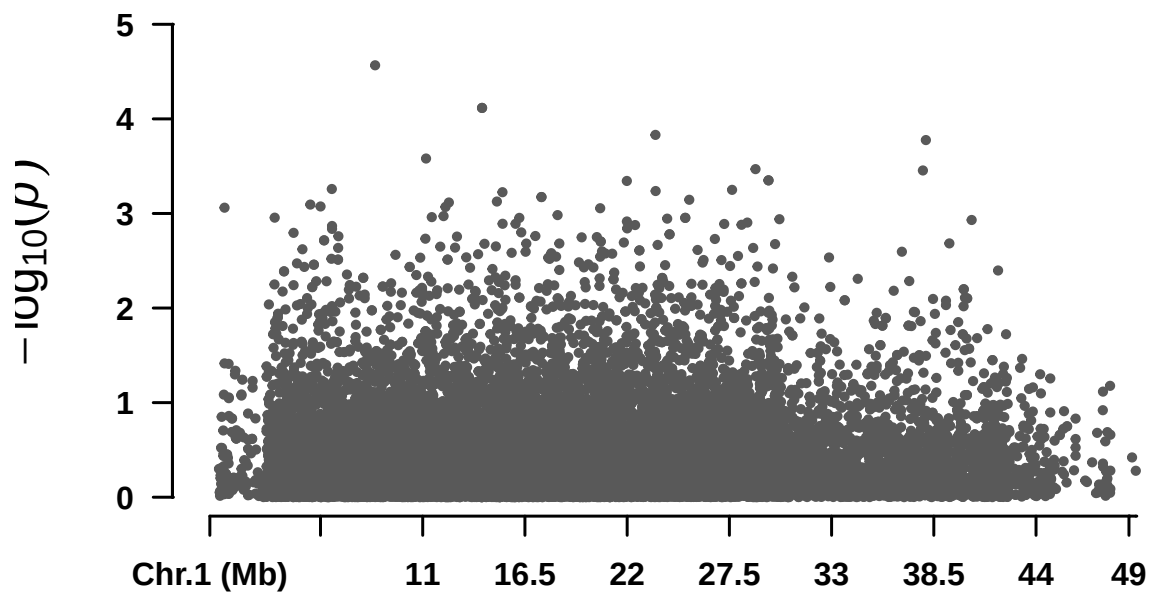


```
#Single trait GWAS figures - de novo genotypic dataset
## LL
```

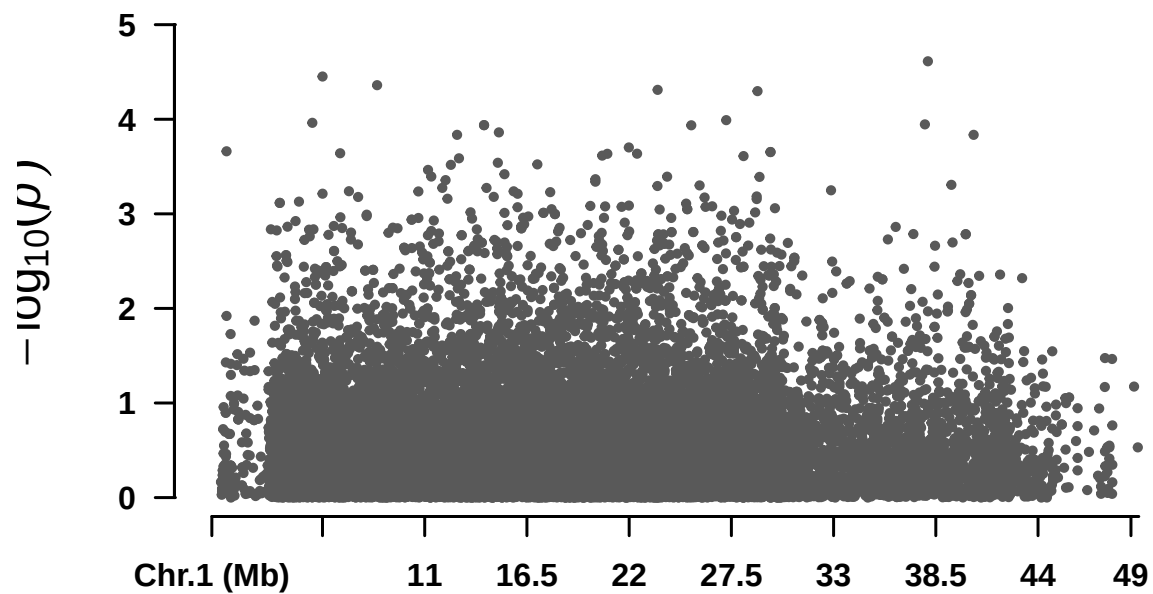
```
## Rectangular Manhattan plotting BLINK.
```



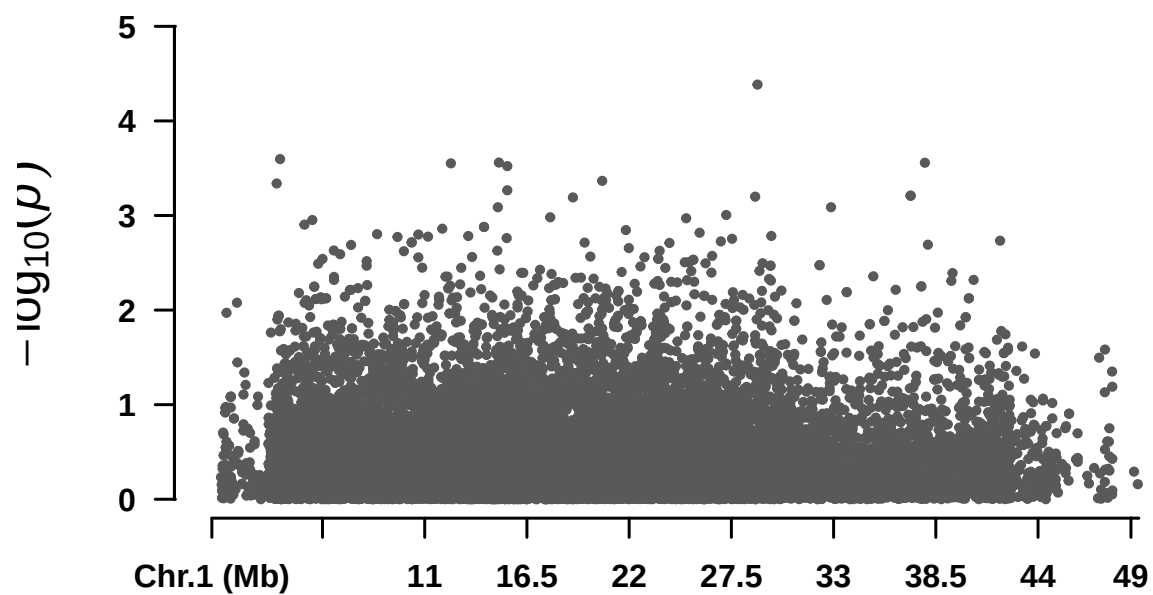
```
## Rectangular Manhattan plotting FarmCPU.
```



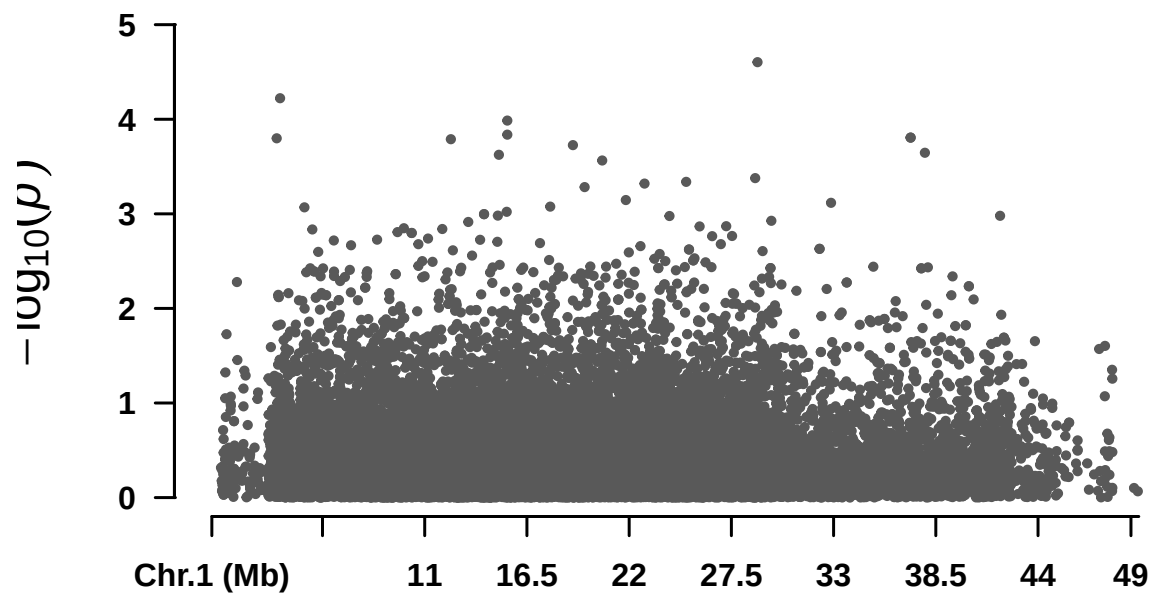
```
## Rectangular Manhattan plotting GLM.
```



Rectangular Manhattan plotting MLM.

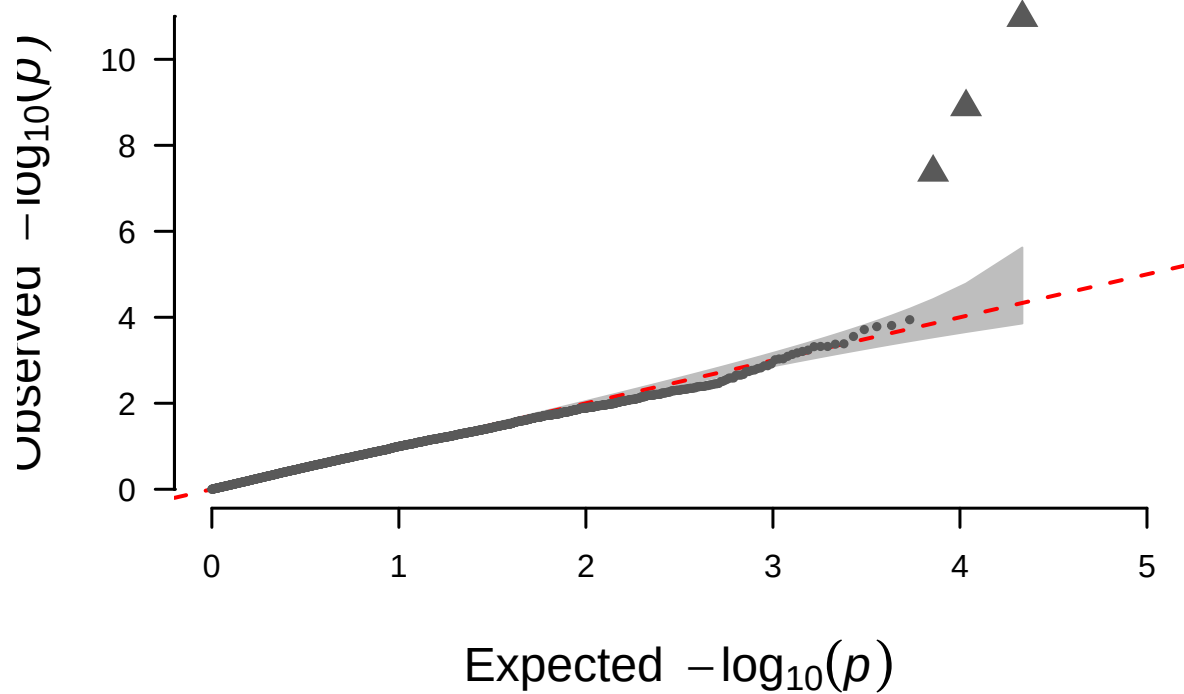


Rectangular Manhattan plotting MLMM.



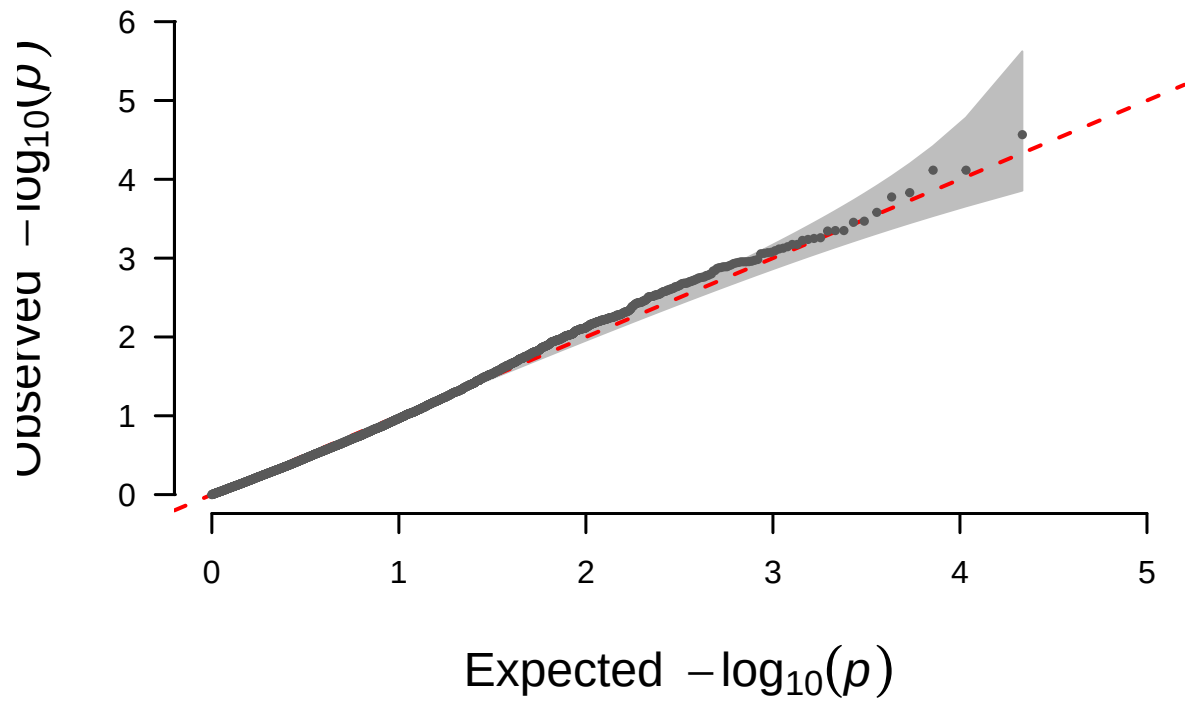
Q-Q plotting BLINK.

BLINK



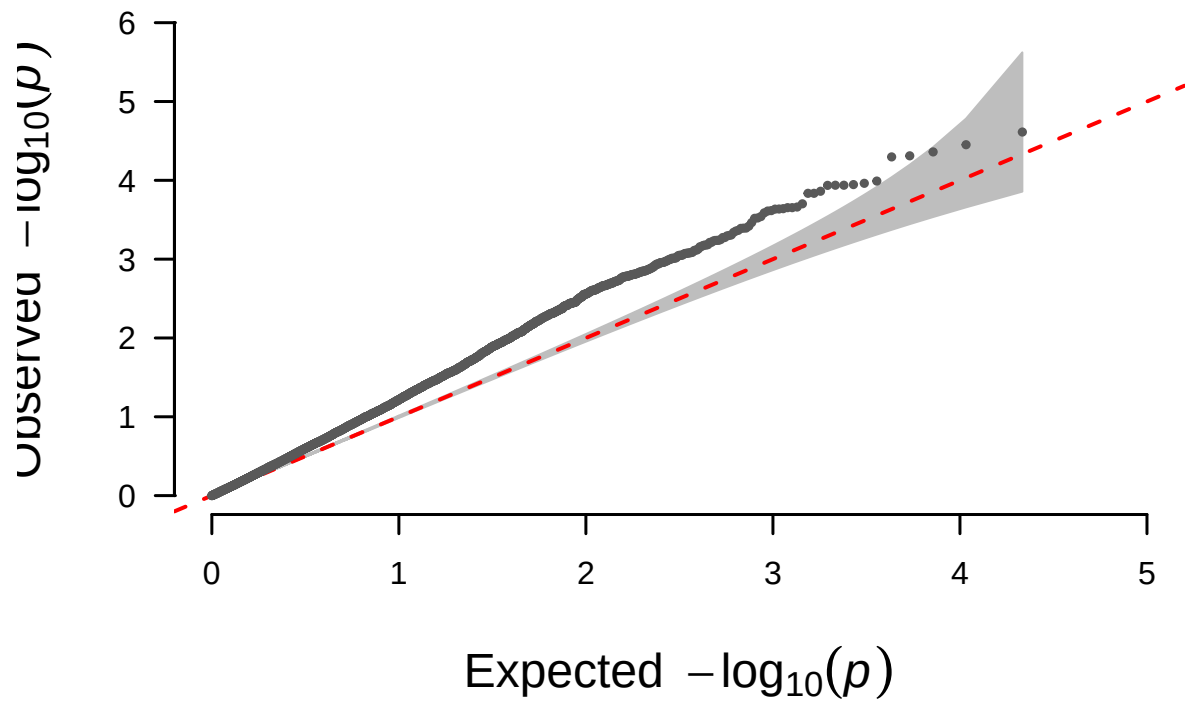
Q-Q plotting FarmCPU.

FarmCPU



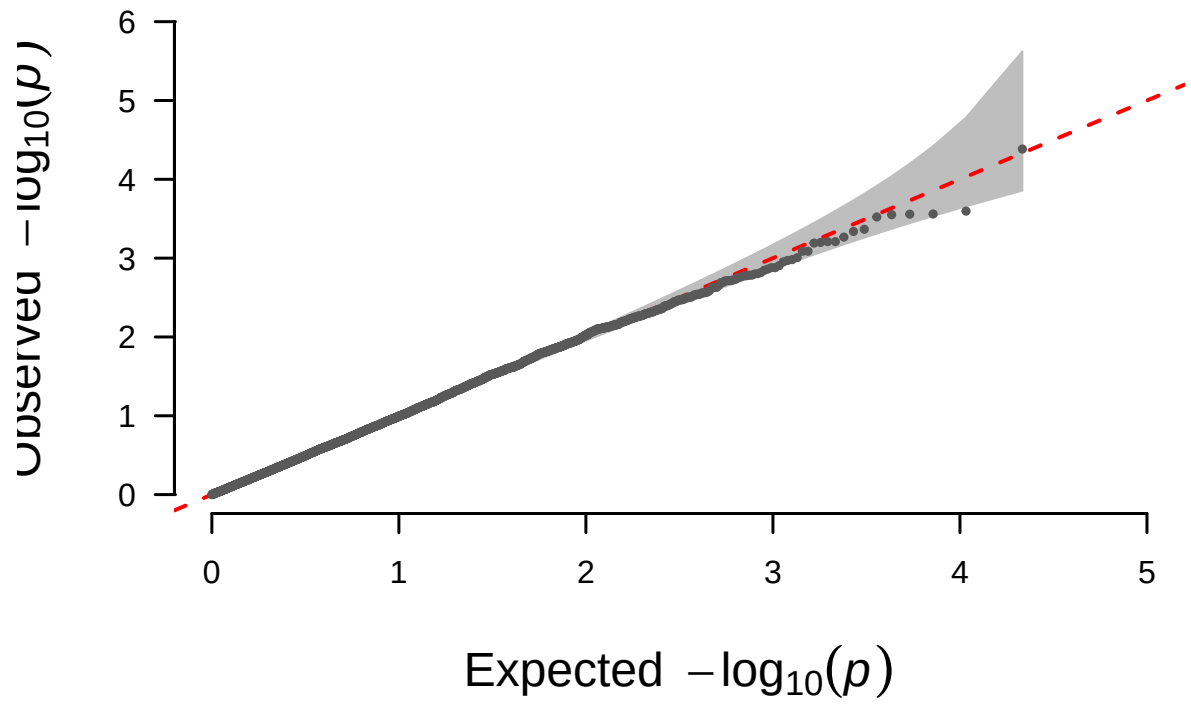
Q-Q plotting GLM.

GLM



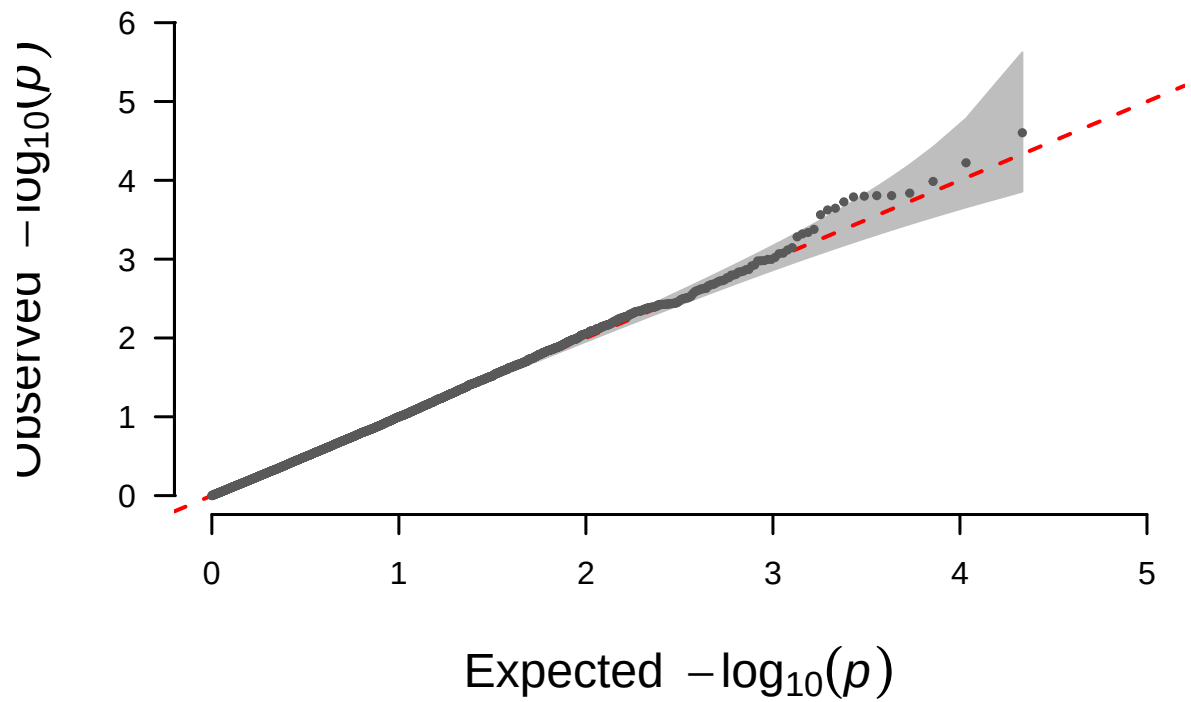
Q-Q plotting MLM.

MLM



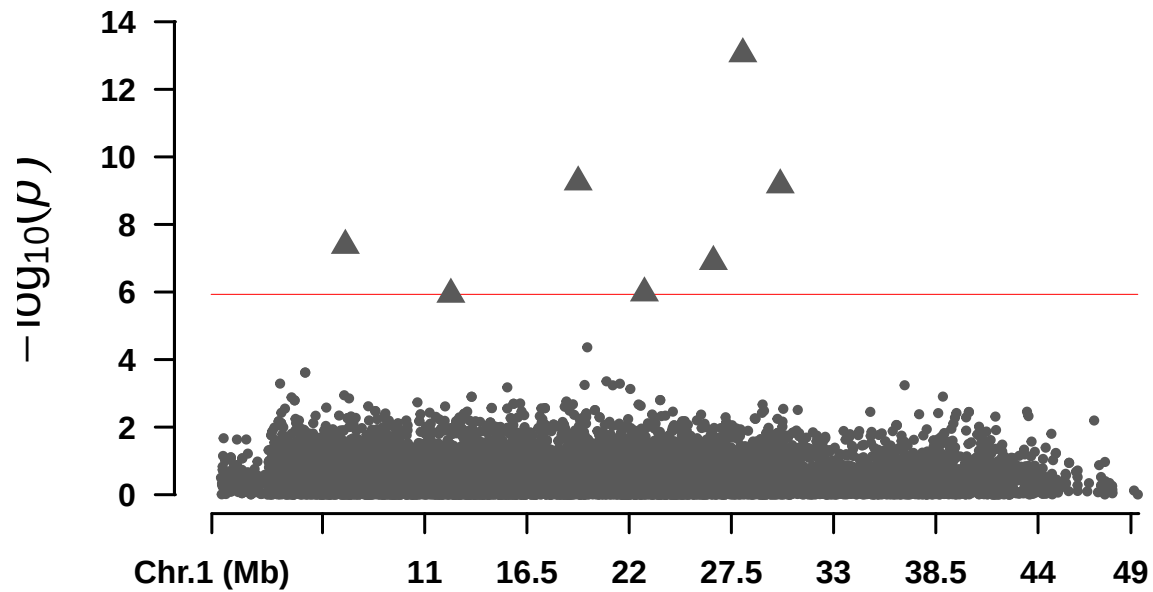
Q-Q plotting MLMM.

MLMM

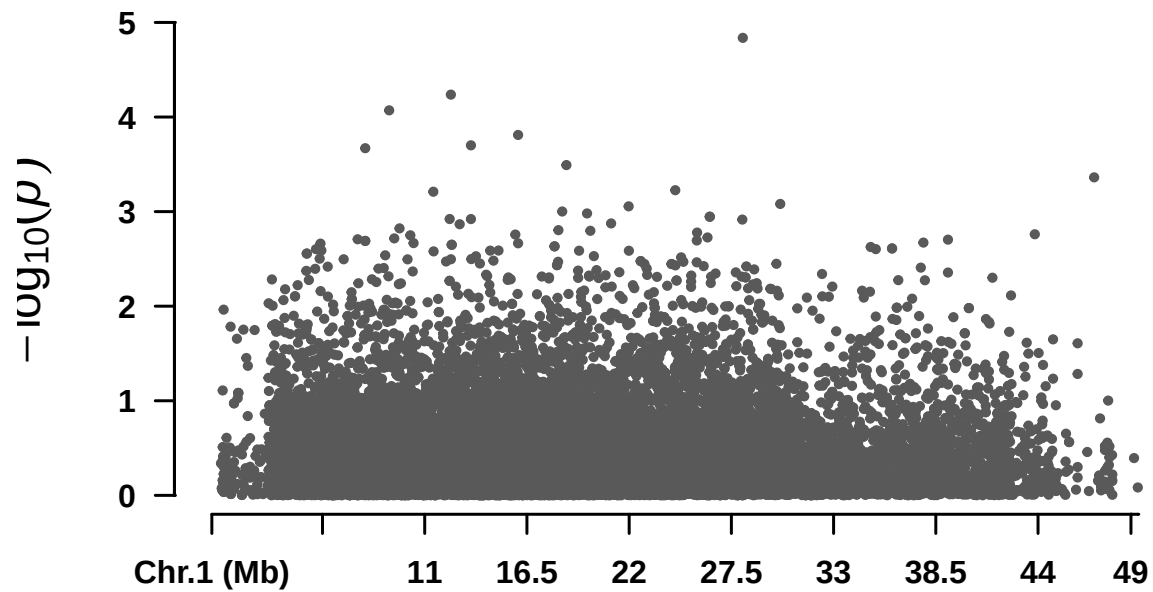


NL

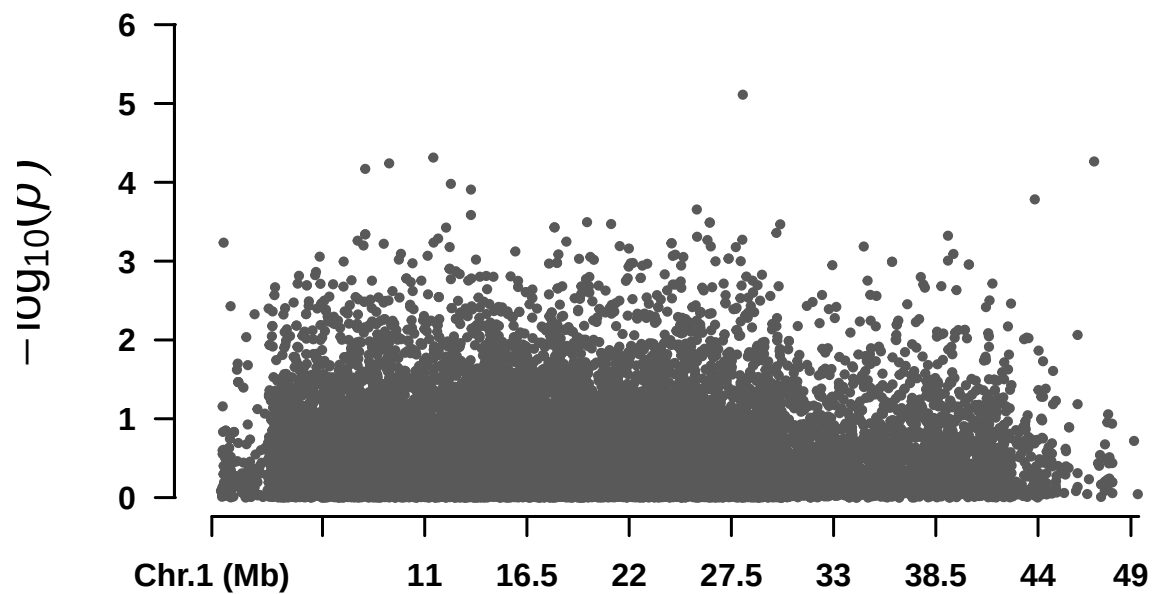
Rectangular Manhattan plotting BLINK.



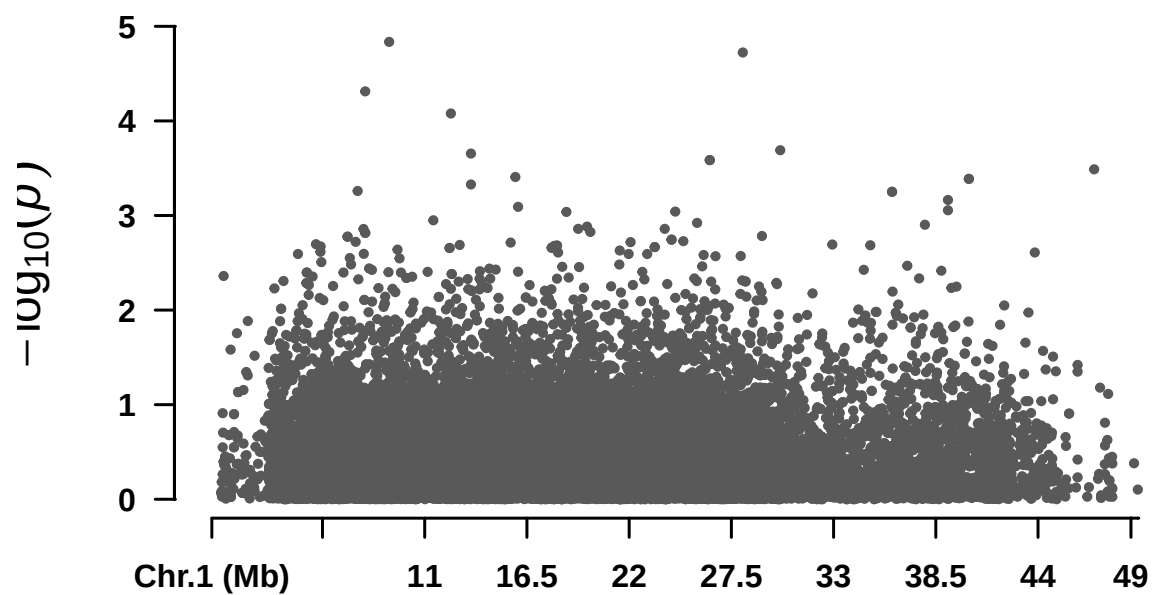
Rectangular Manhattan plotting FarmCPU.



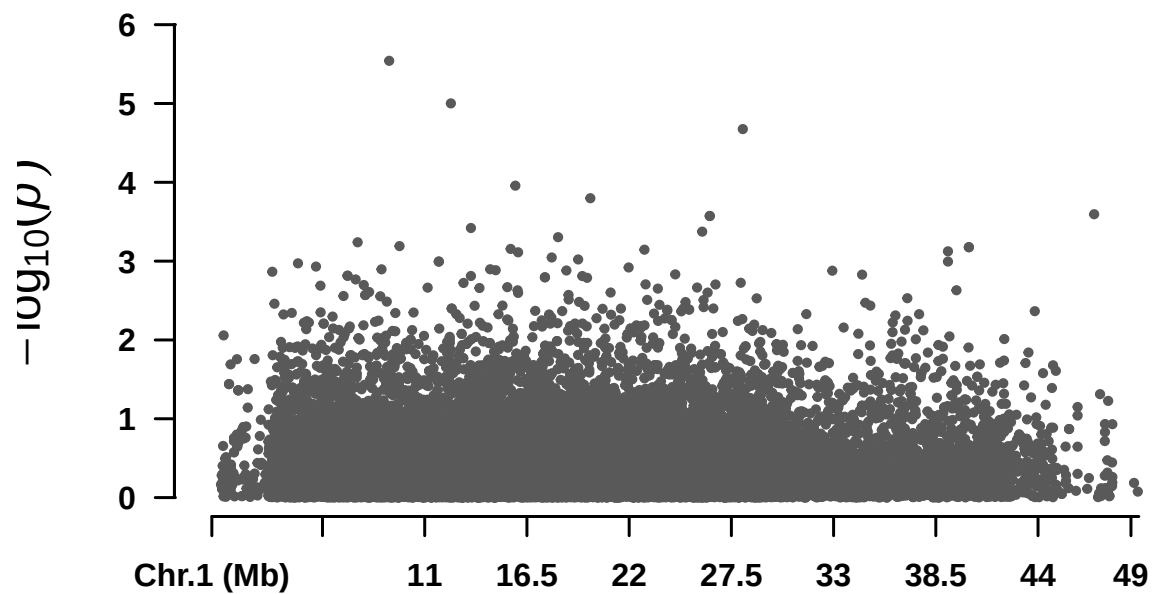
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

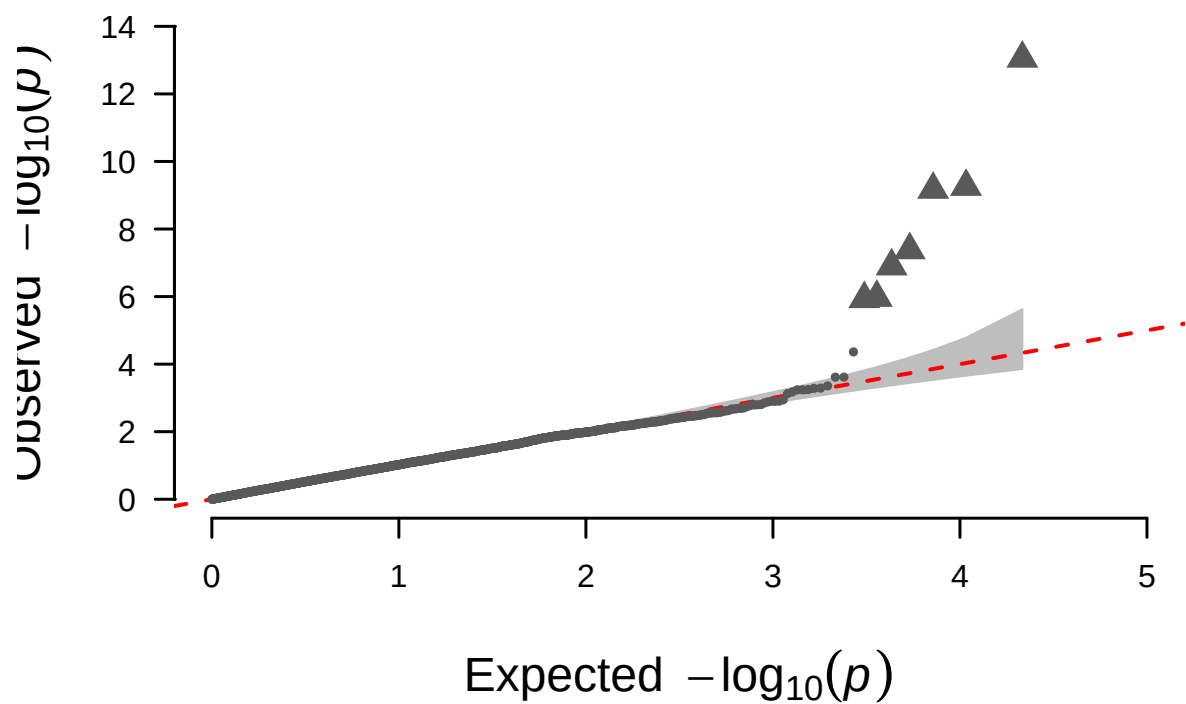


Rectangular Manhattan plotting MLMM.



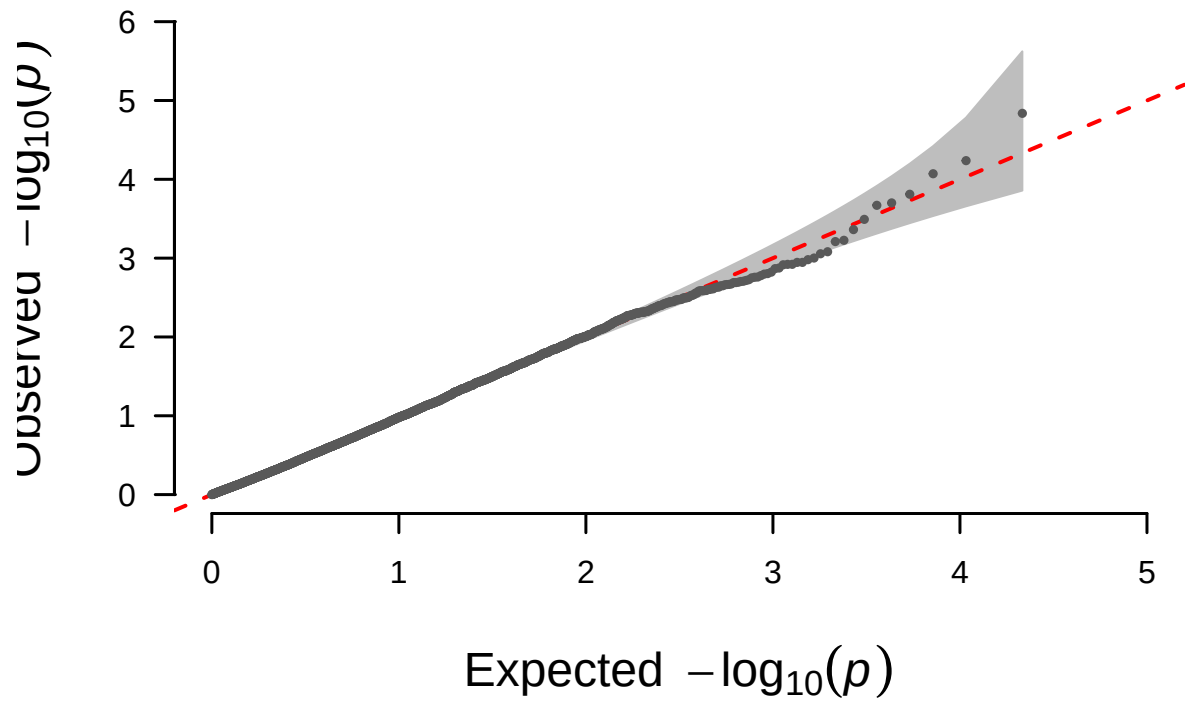
Q-Q plotting BLINK.

BLINK



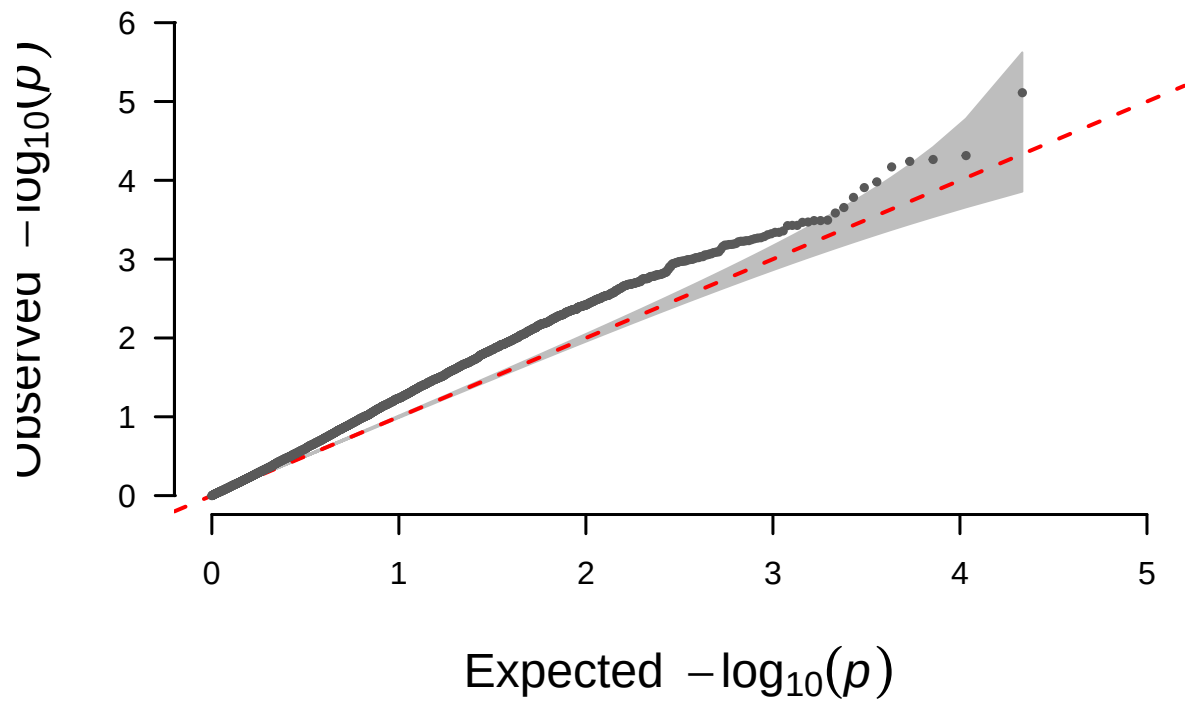
Q-Q plotting FarmCPU.

FarmCPU



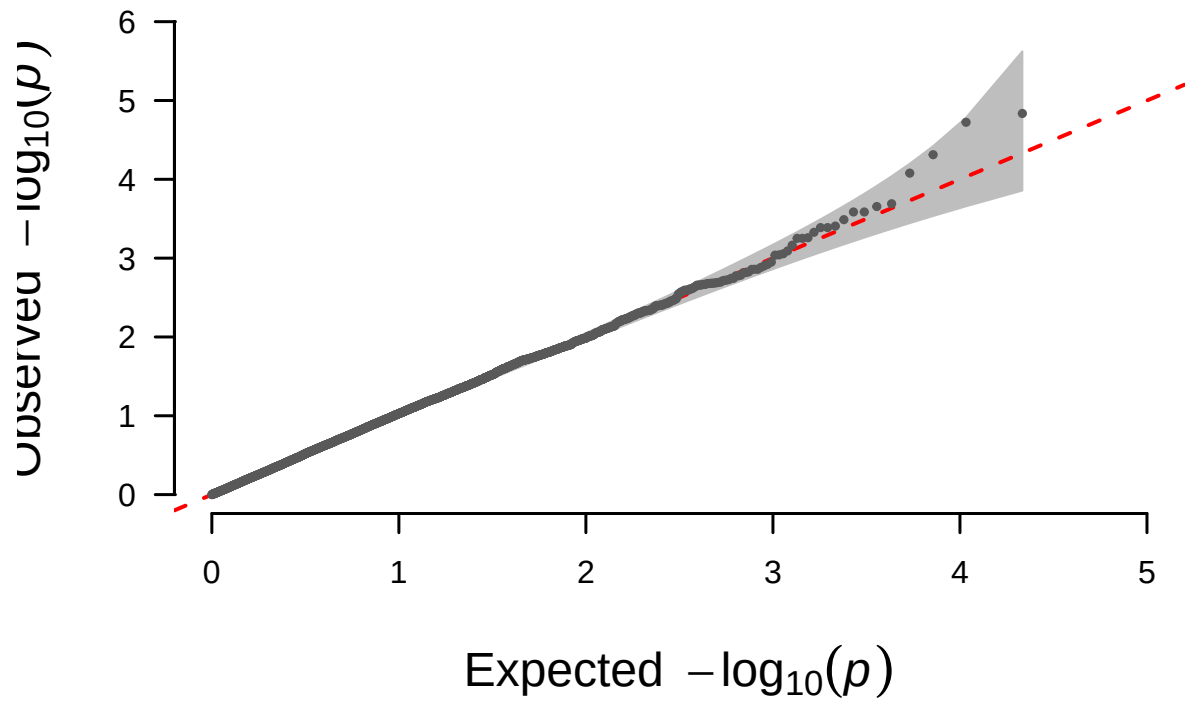
Q-Q plotting GLM.

GLM



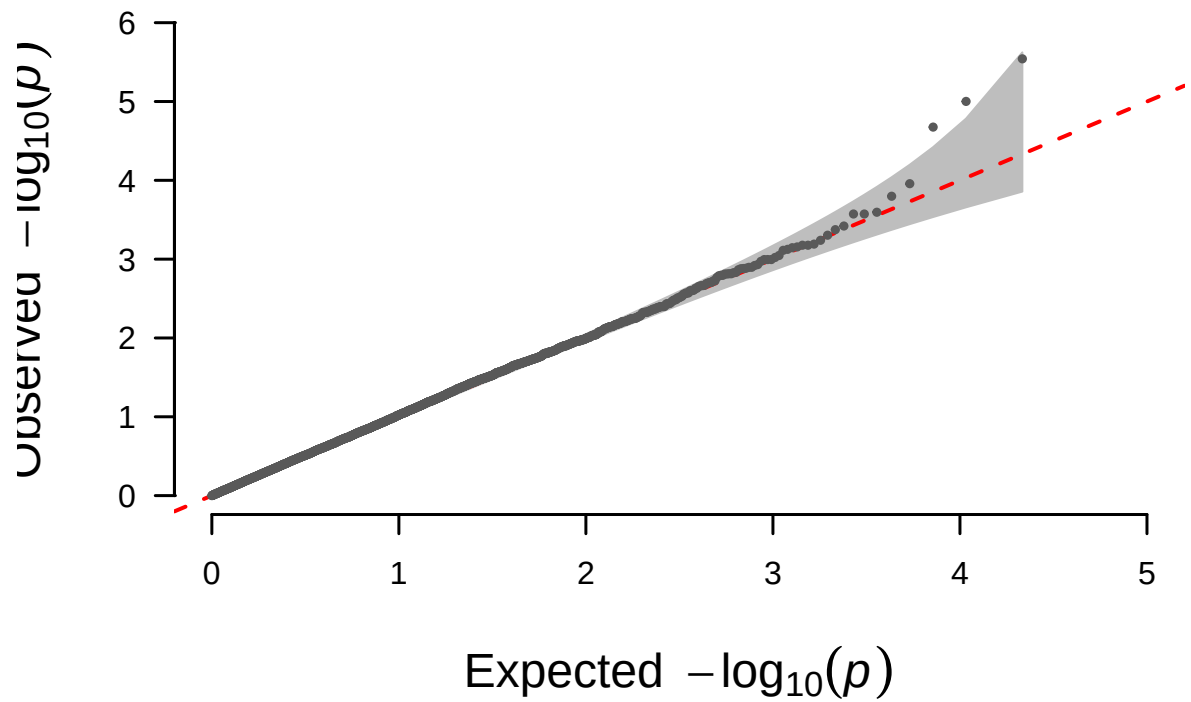
Q-Q plotting MLM.

MLM



Q-Q plotting MLMM.

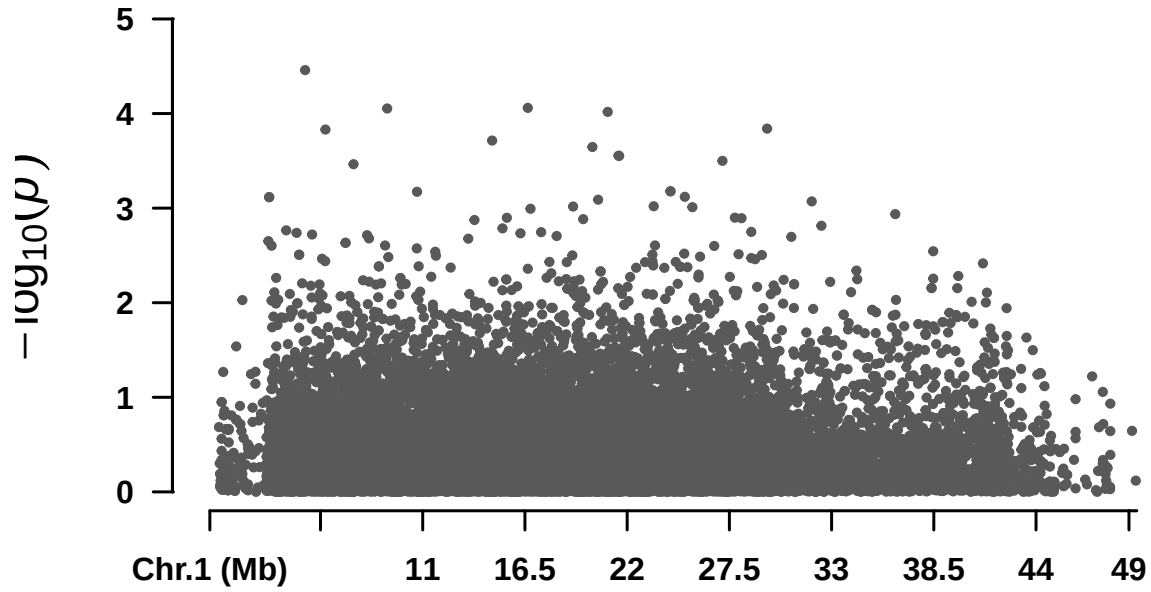
MLMM



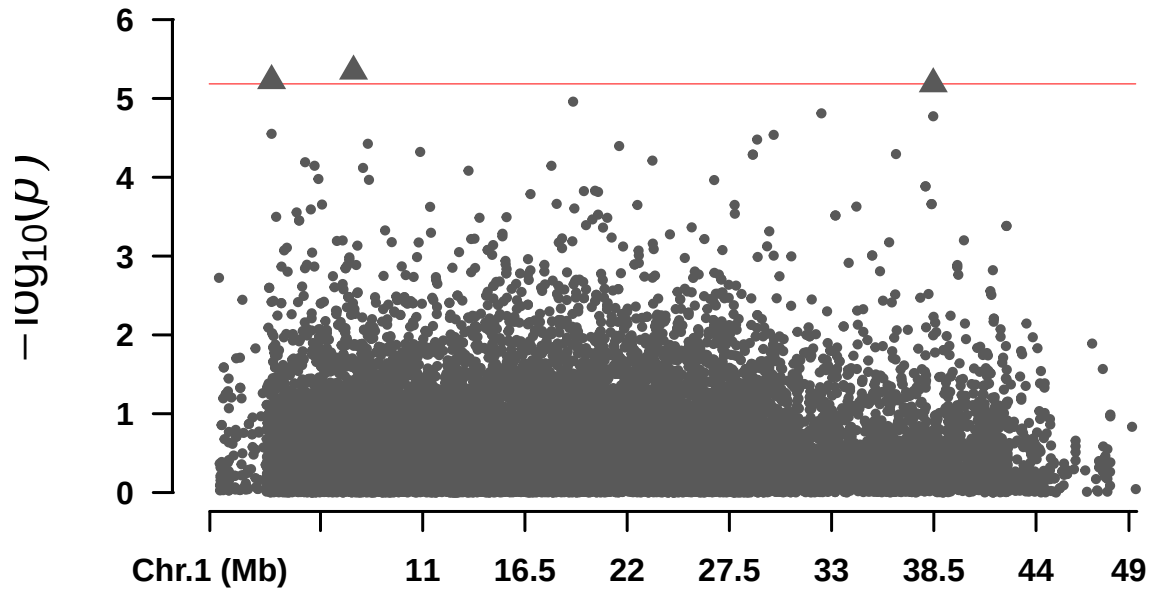
DBH

Rectangular Manhattan plotting BLINK.

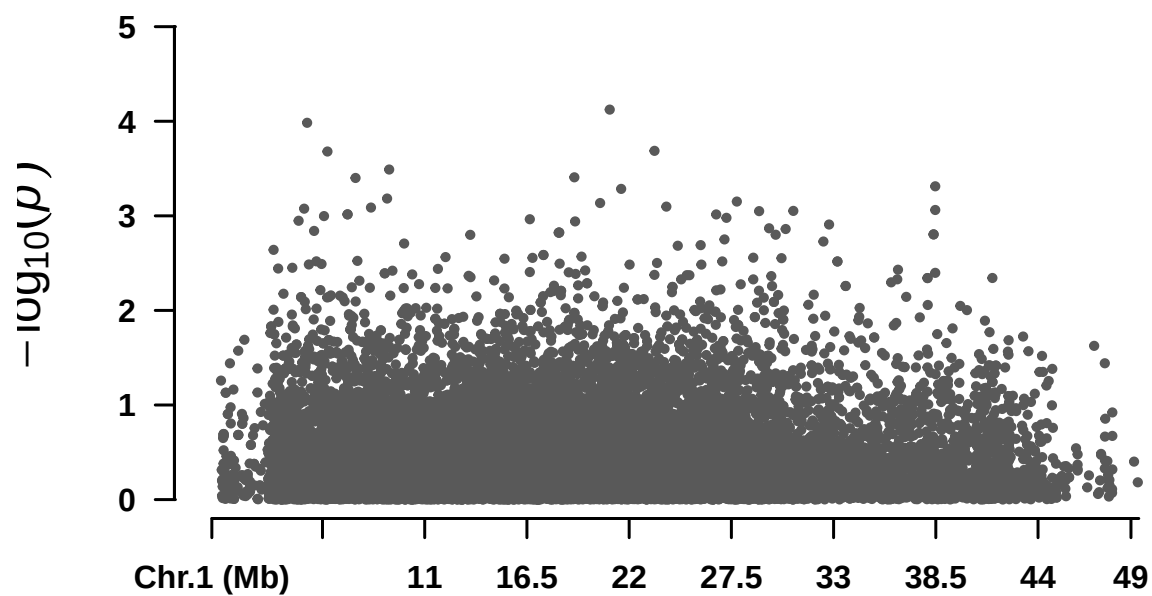
Rectangular Manhattan plotting FarmCPU.



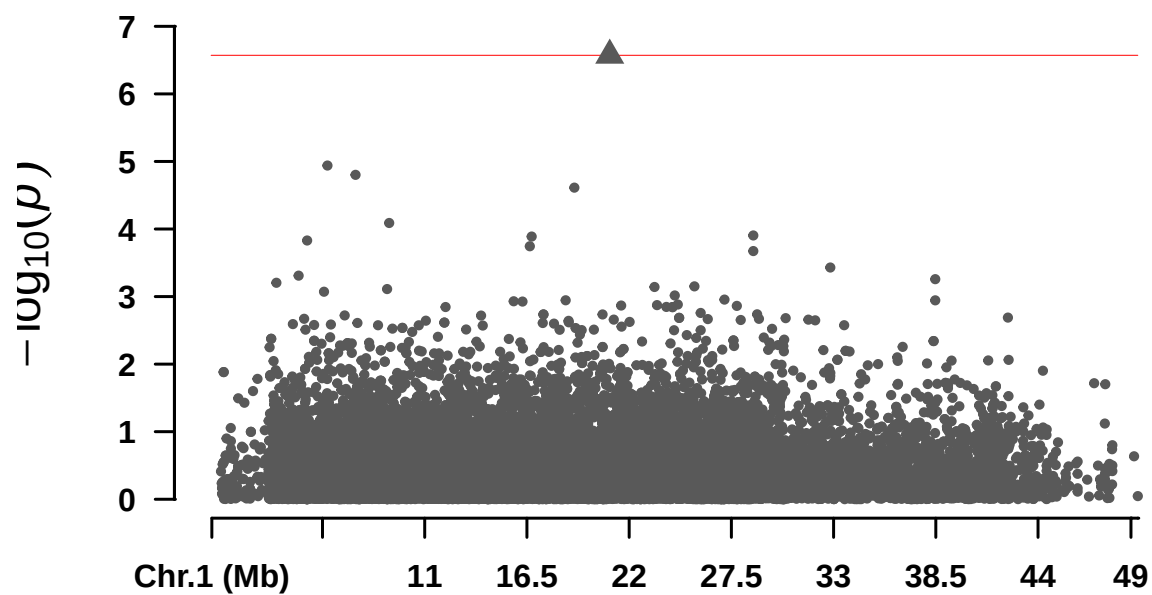
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

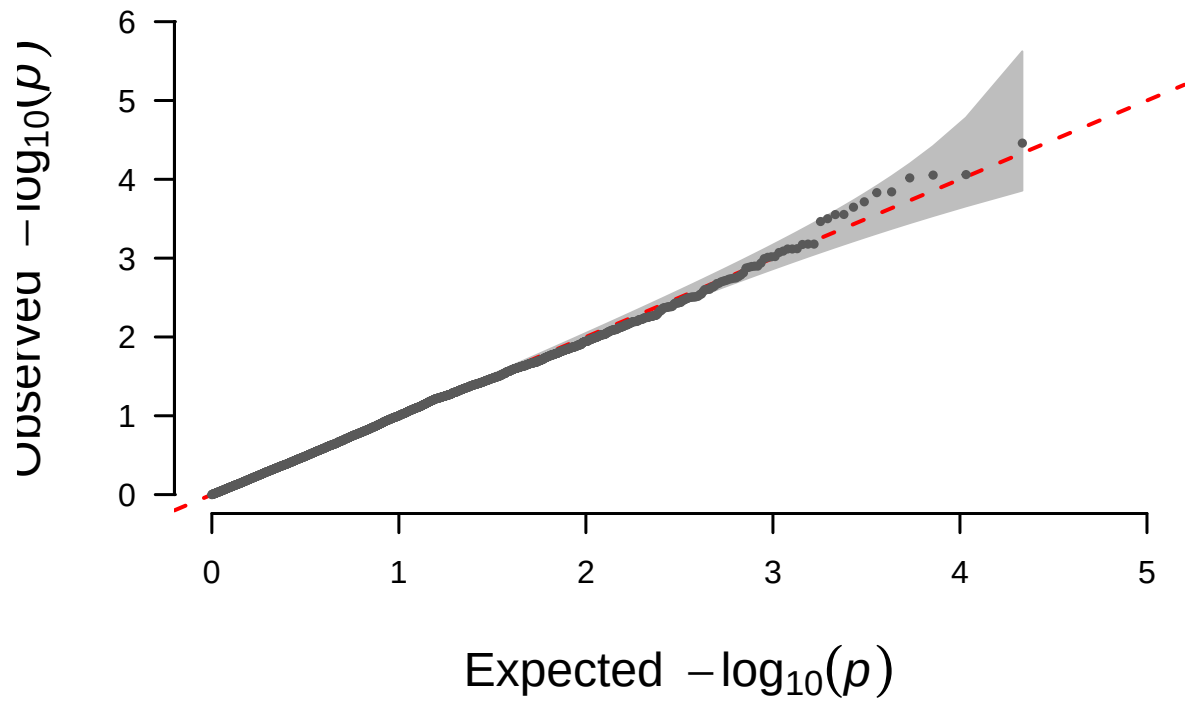


Rectangular Manhattan plotting MLMM.



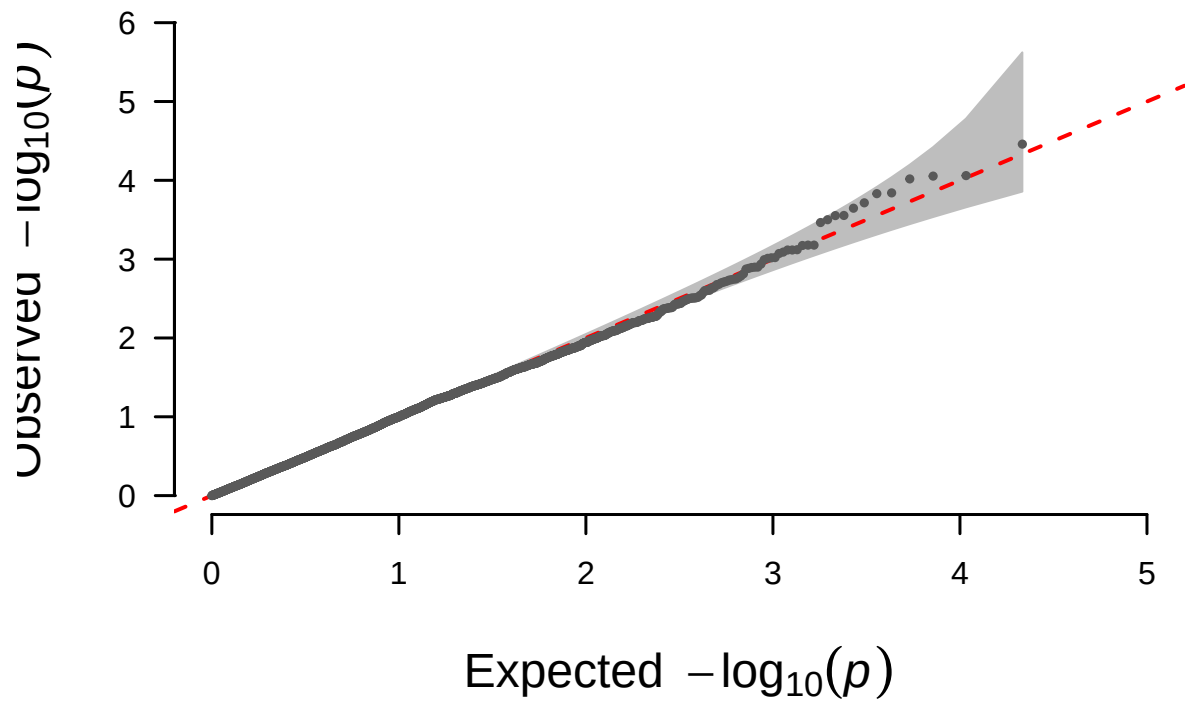
Q-Q plotting BLINK.

BLINK



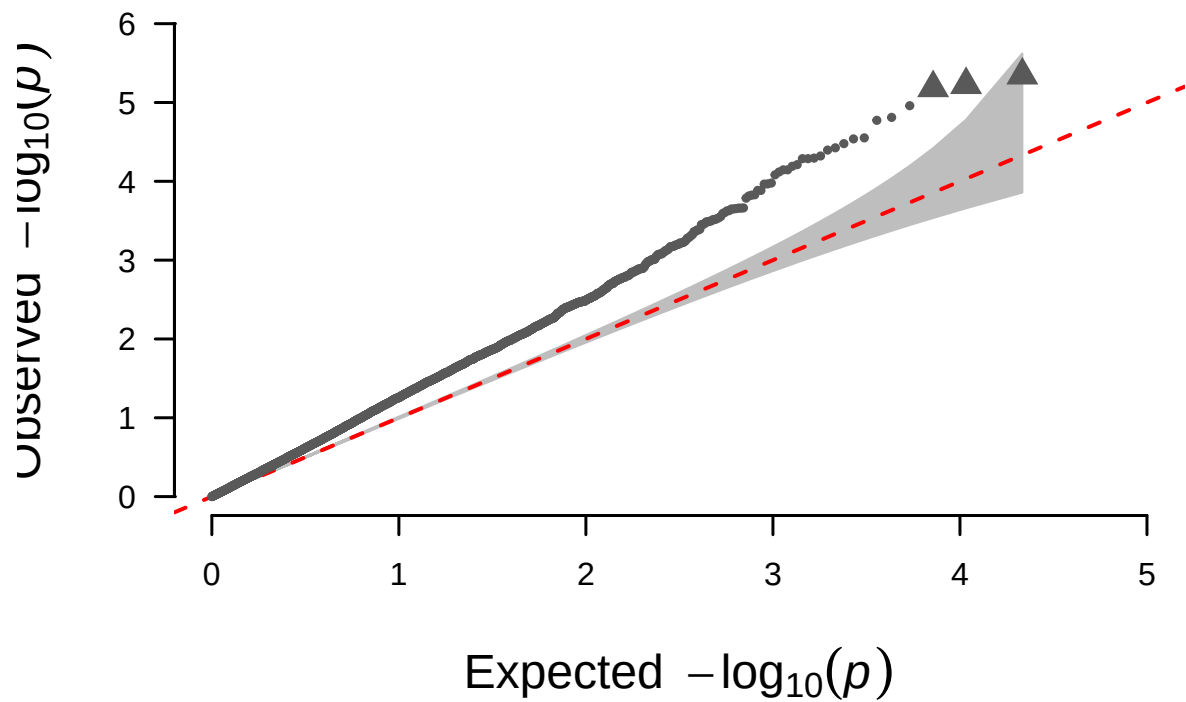
Q-Q plotting FarmCPU.

FarmCPU



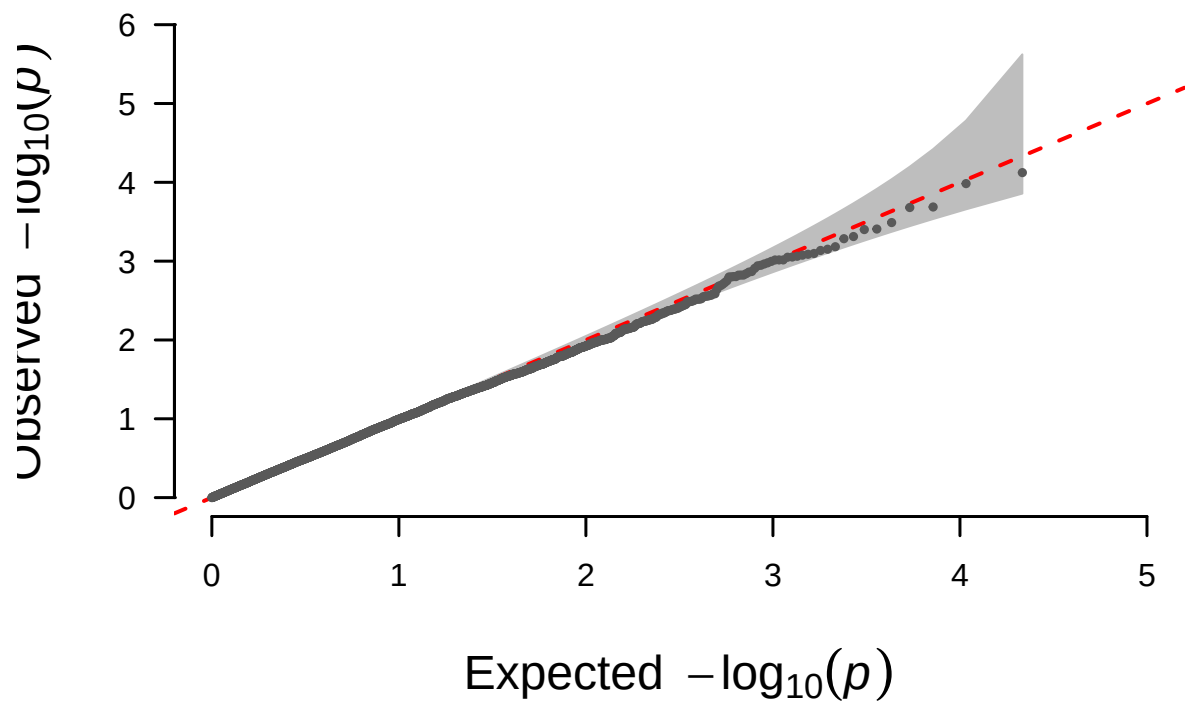
Q-Q plotting GLM.

GLM



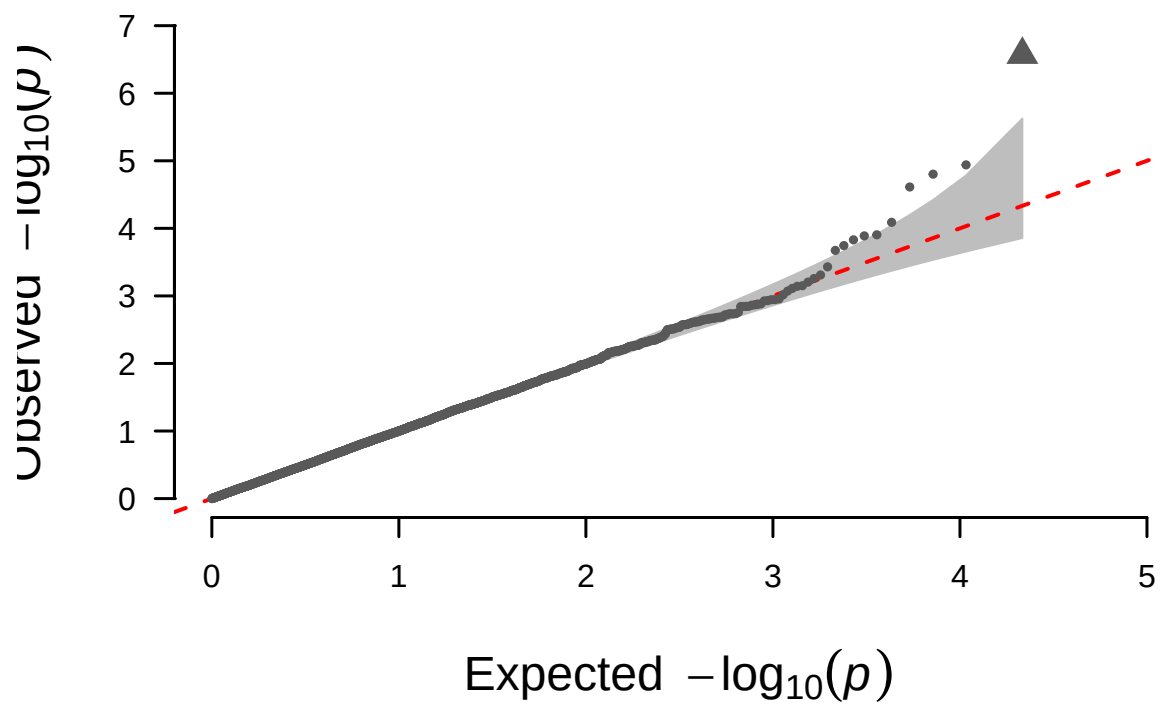
Q-Q plotting MLM.

MLM



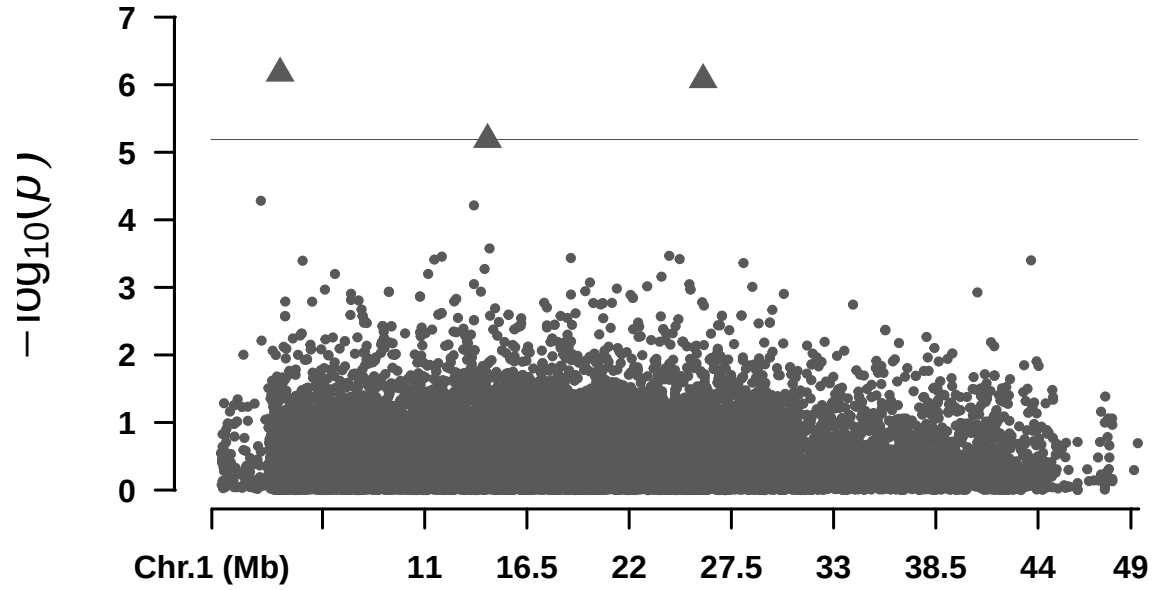
Q-Q plotting MLMM.

MLMM

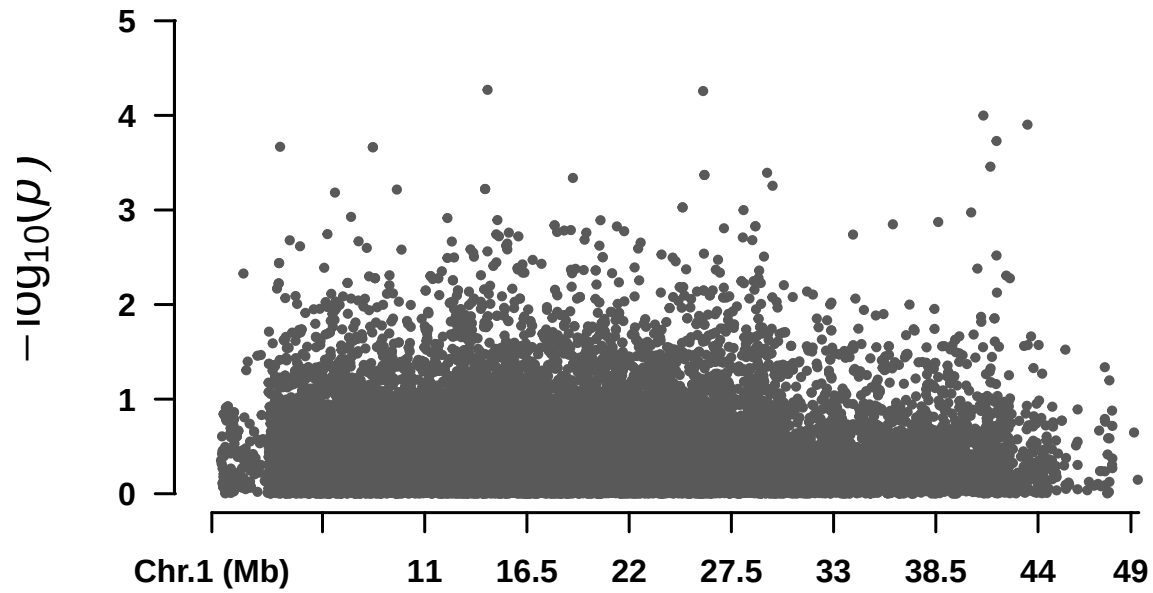


HFM

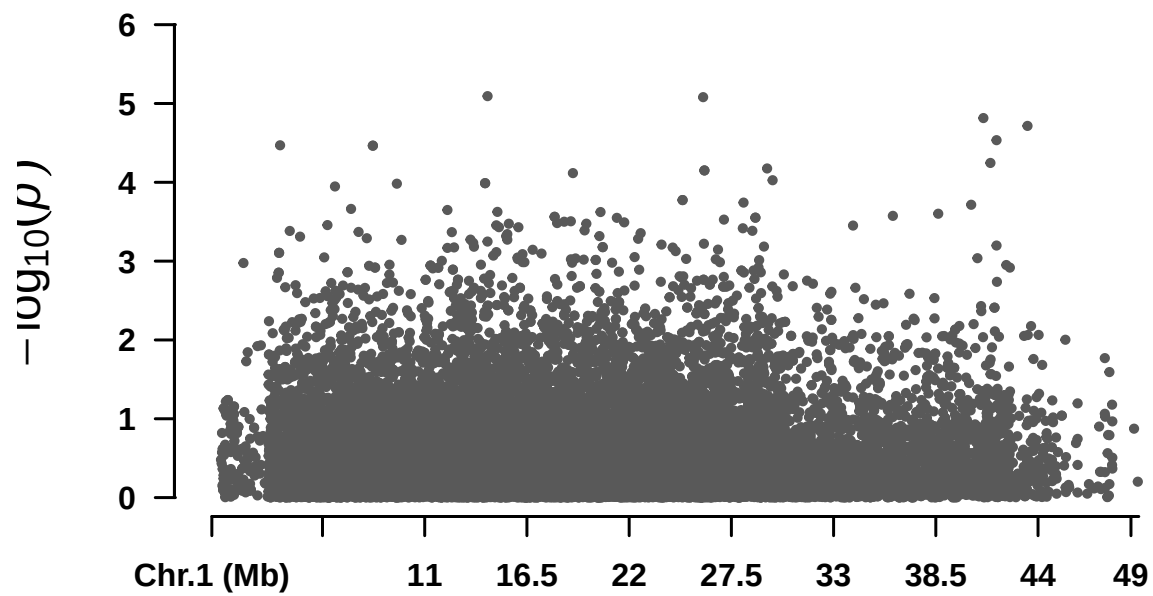
Rectangular Manhattan plotting BLINK.



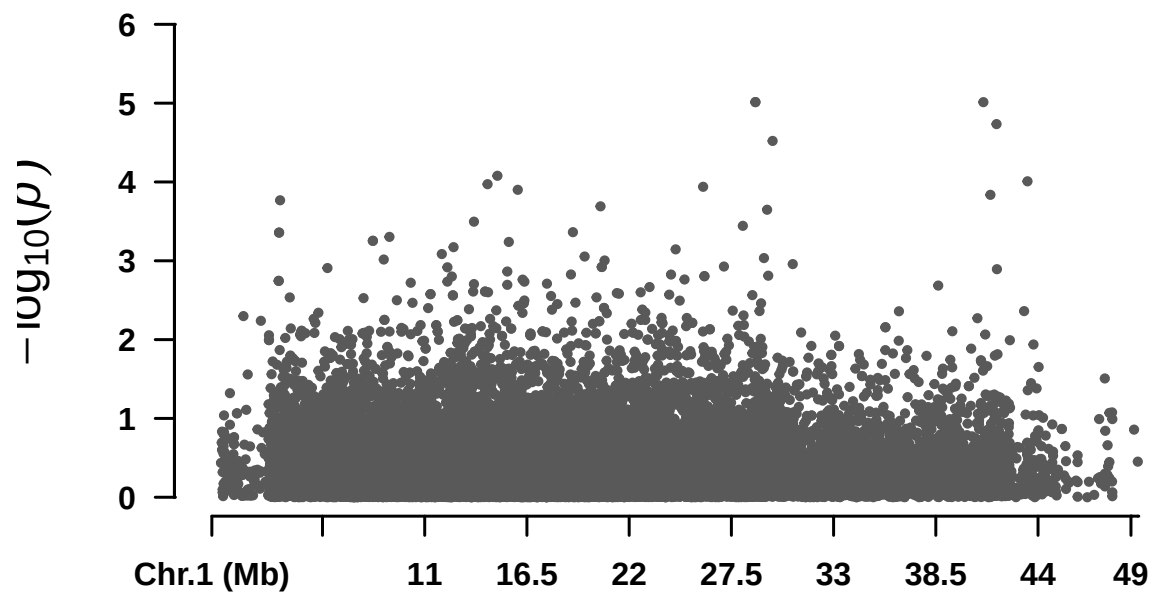
Rectangular Manhattan plotting FarmCPU.



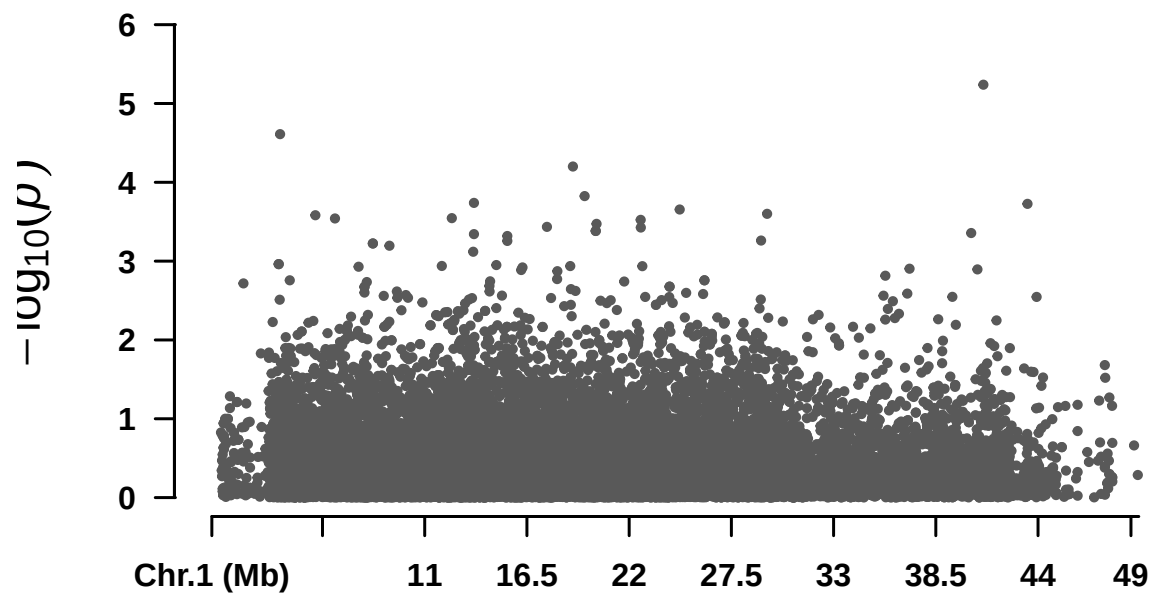
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

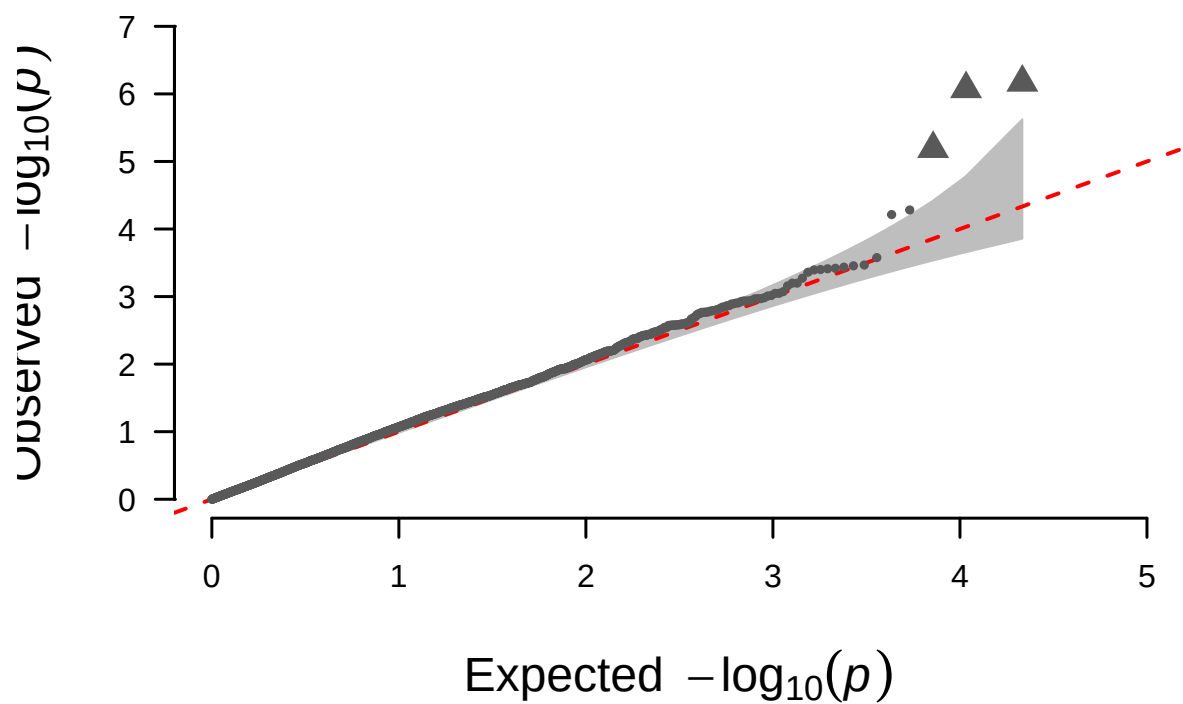


Rectangular Manhattan plotting MLMM.



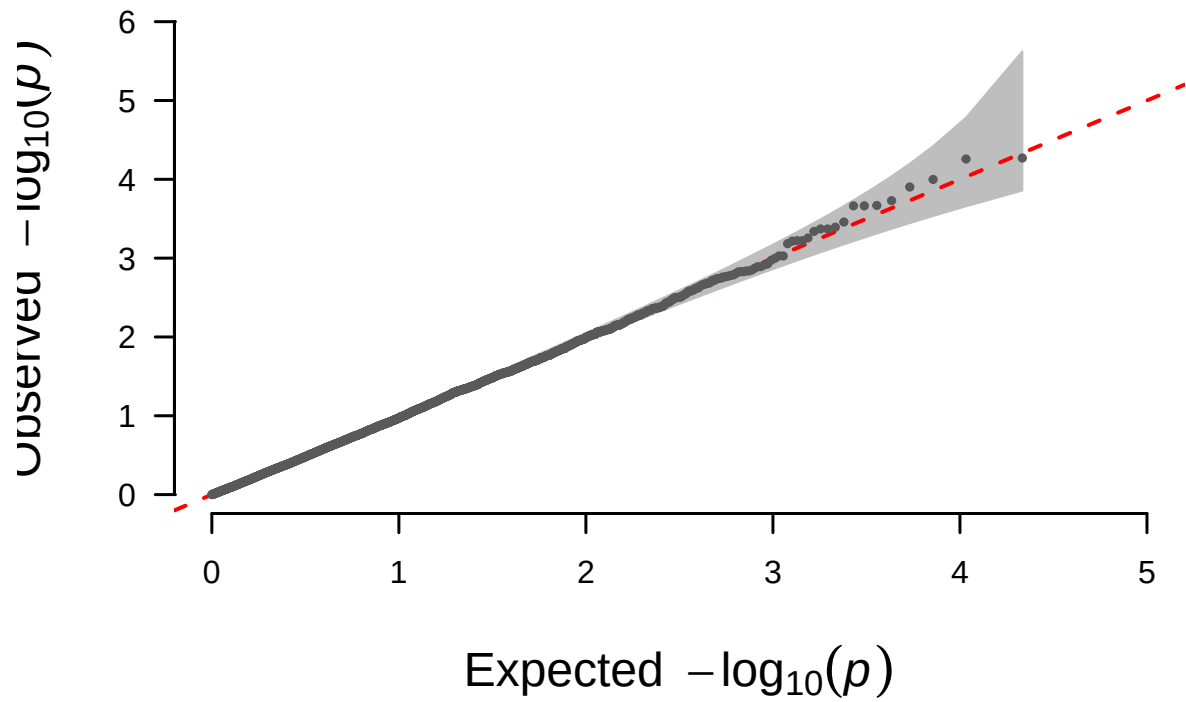
Q-Q plotting BLINK.

BLINK



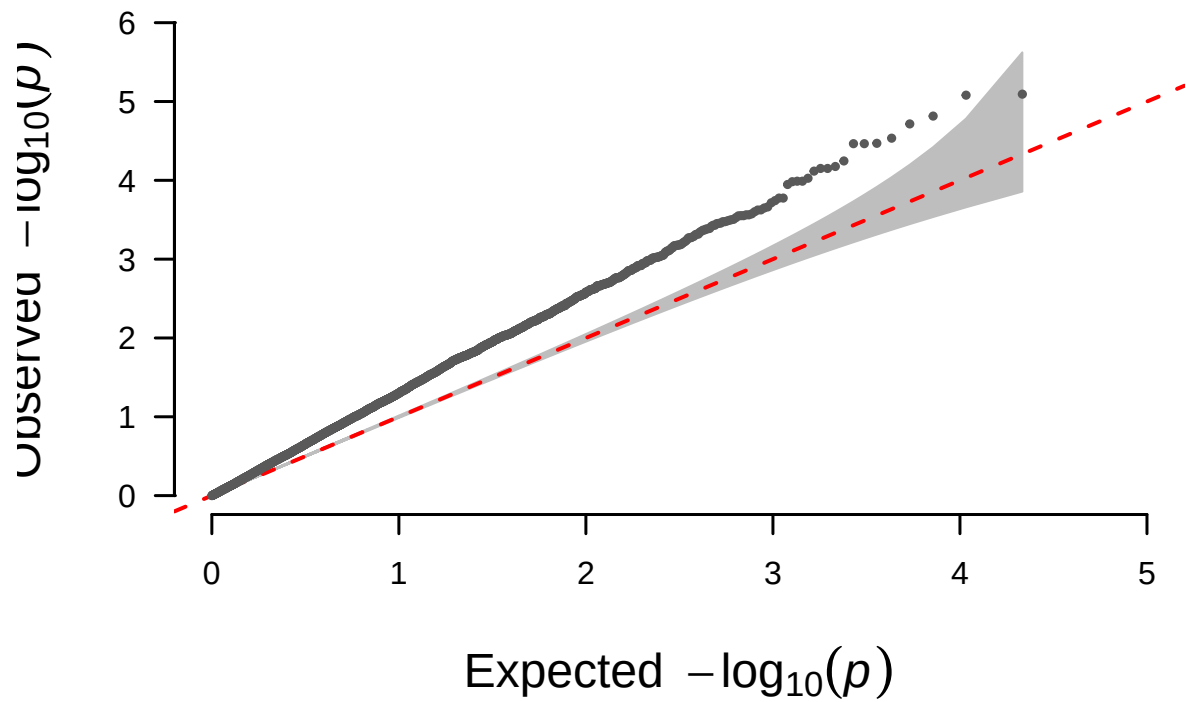
Q-Q plotting FarmCPU.

FarmCPU



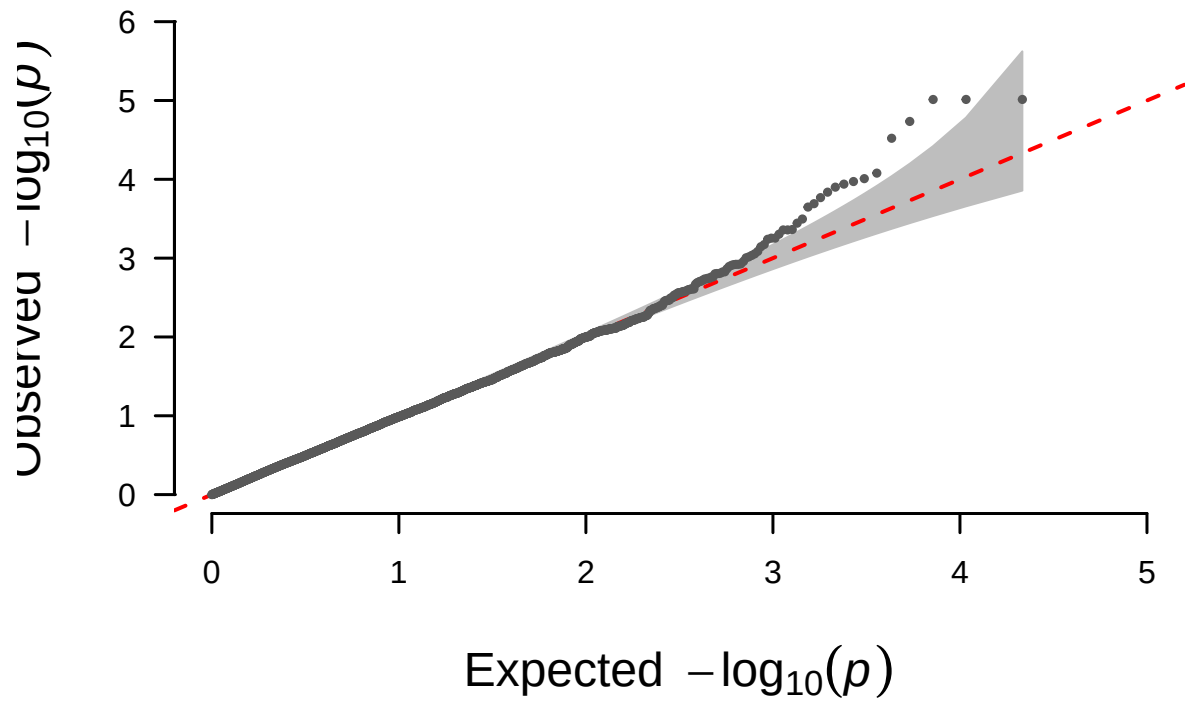
Q-Q plotting GLM.

GLM



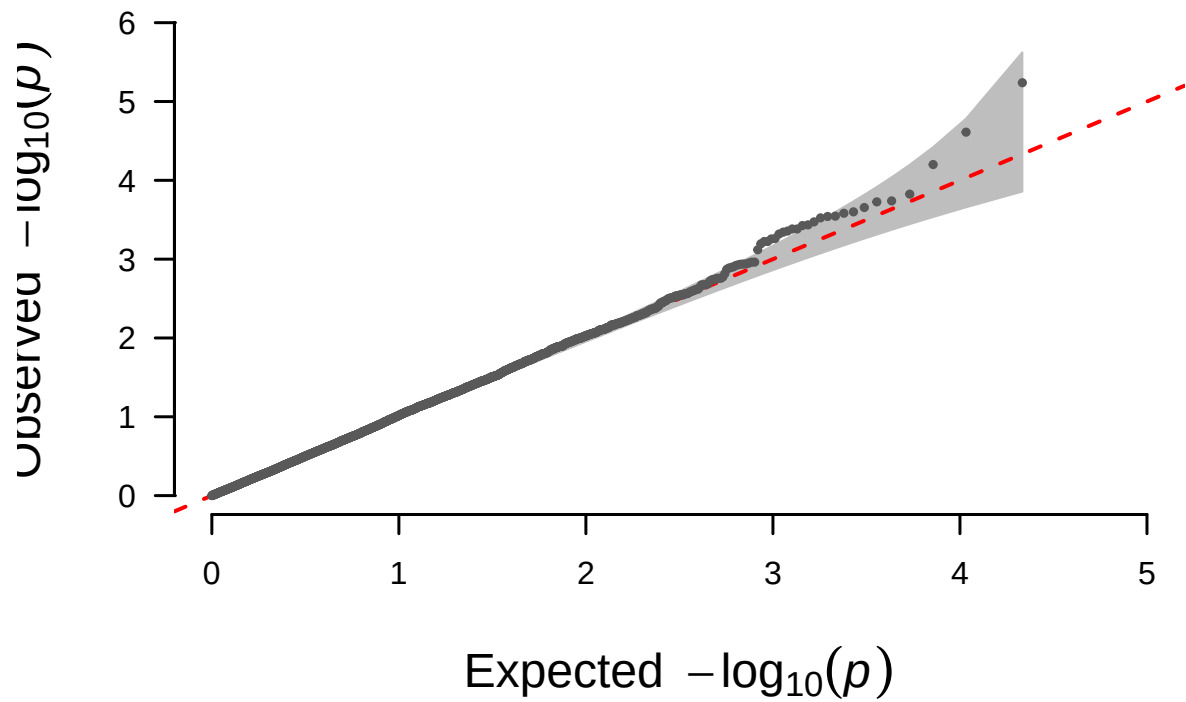
Q-Q plotting MLM.

MLM



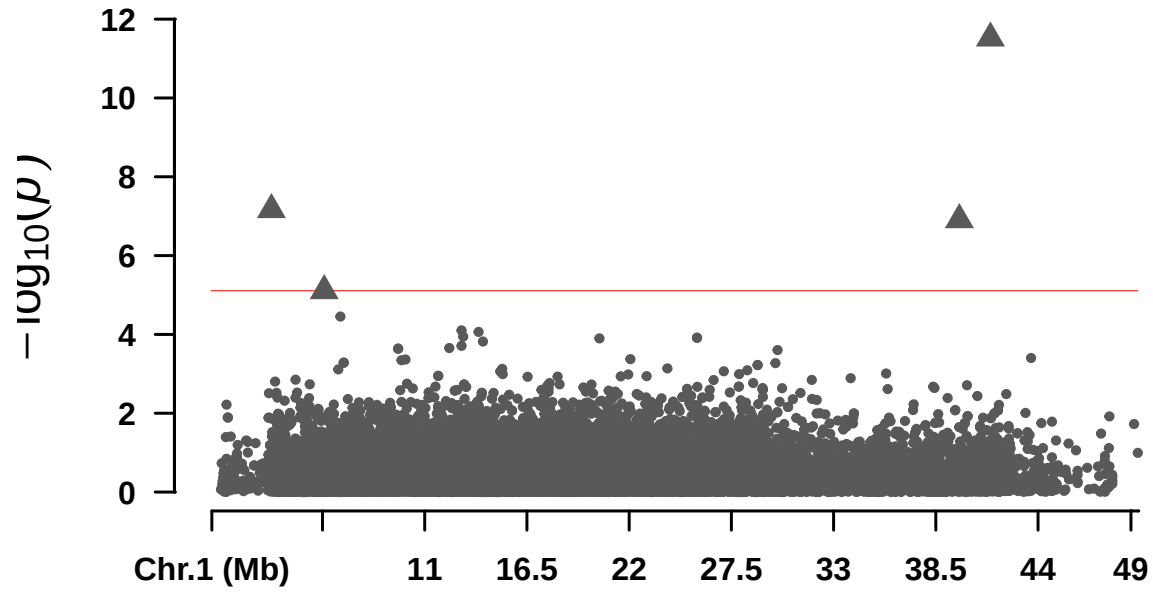
Q-Q plotting MLMM.

MLMM

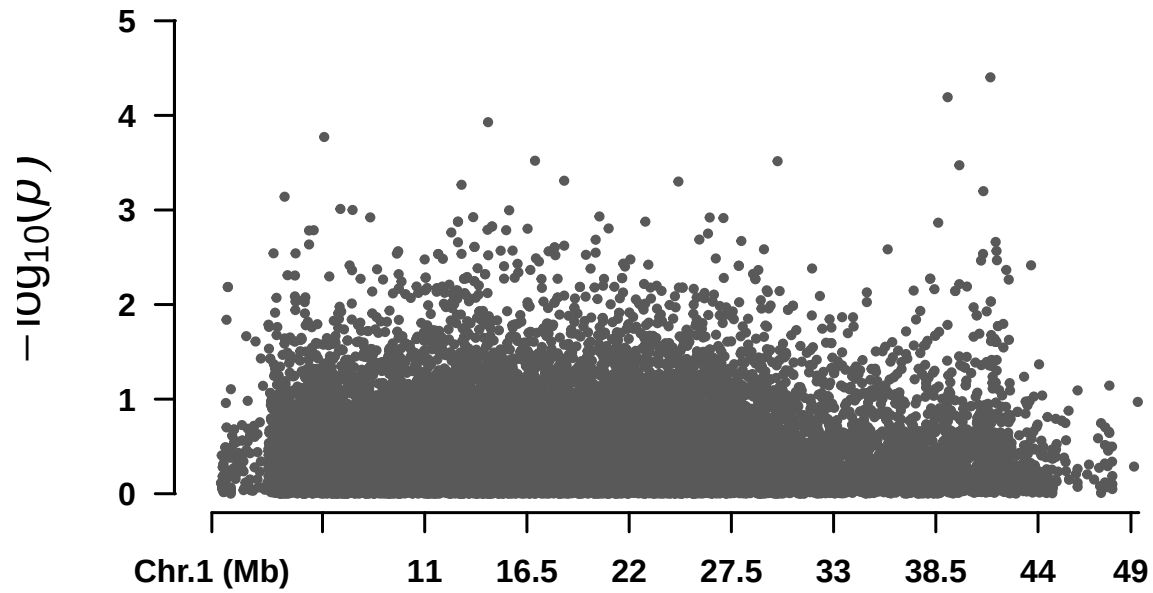


EFM

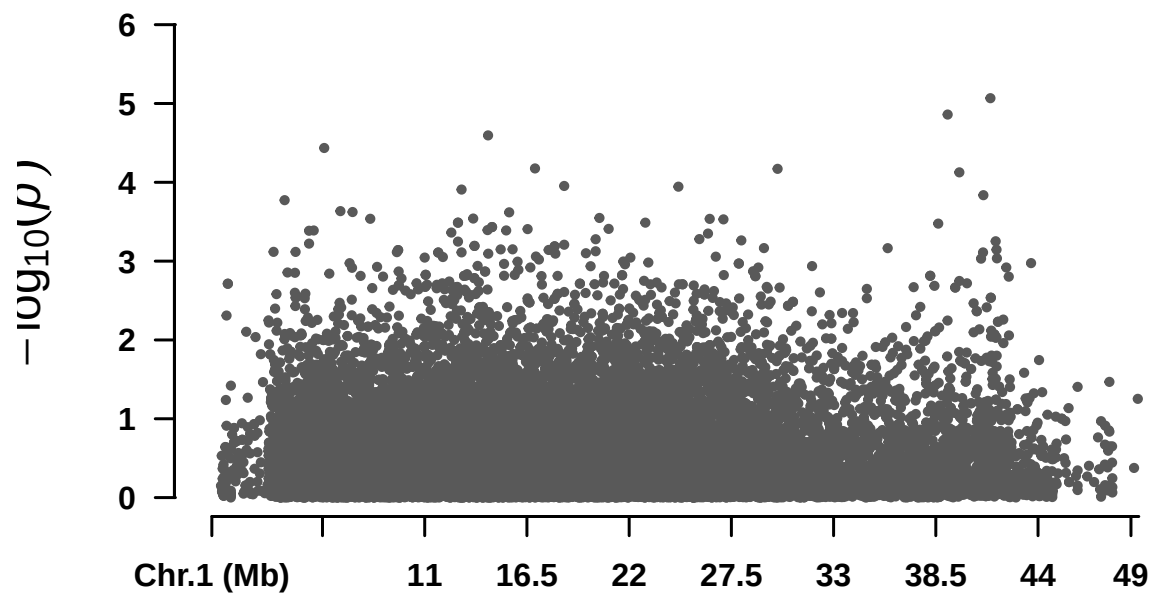
Rectangular Manhattan plotting BLINK.



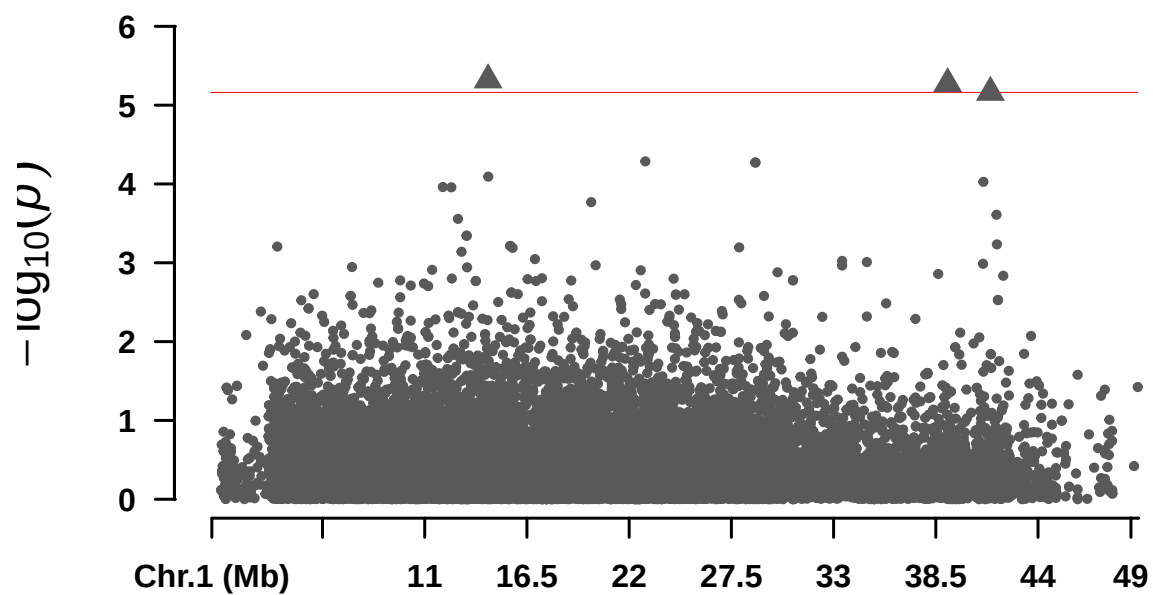
Rectangular Manhattan plotting FarmCPU.



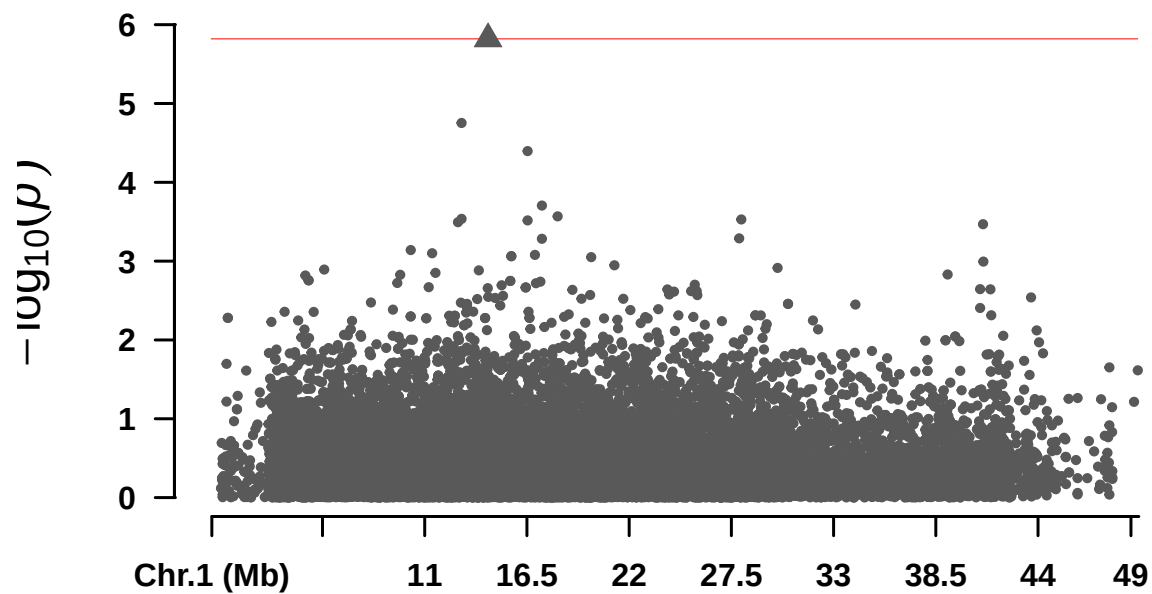
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

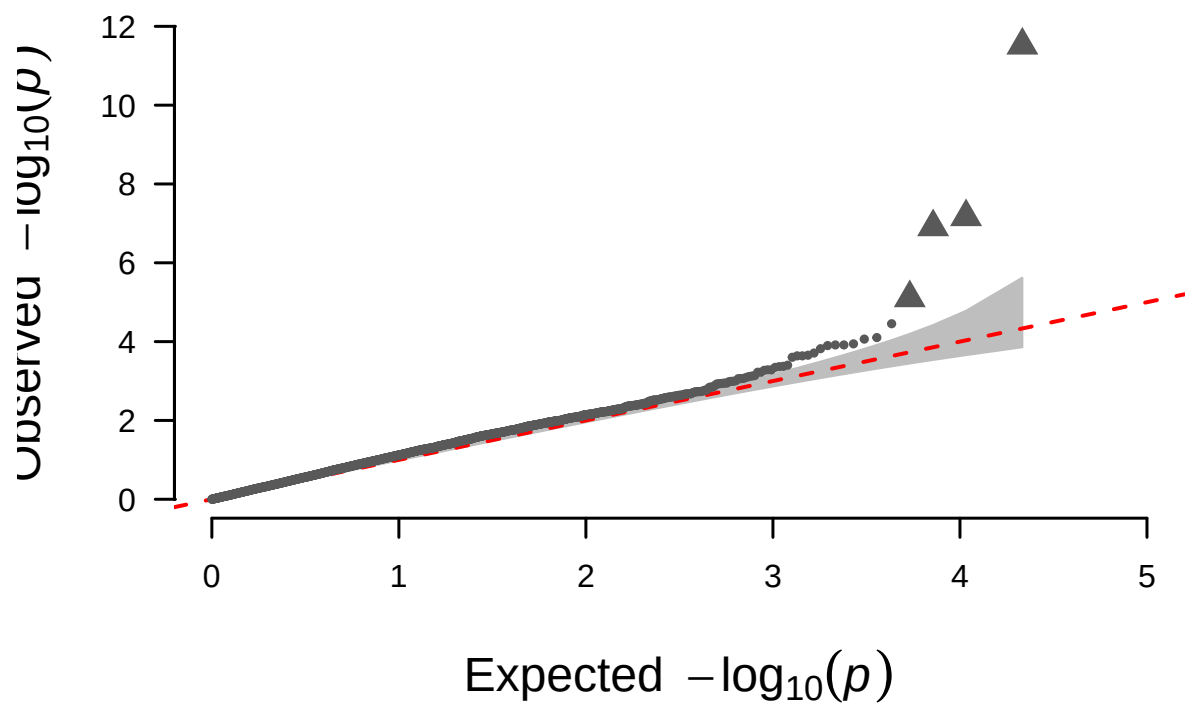


Rectangular Manhattan plotting MLMM.



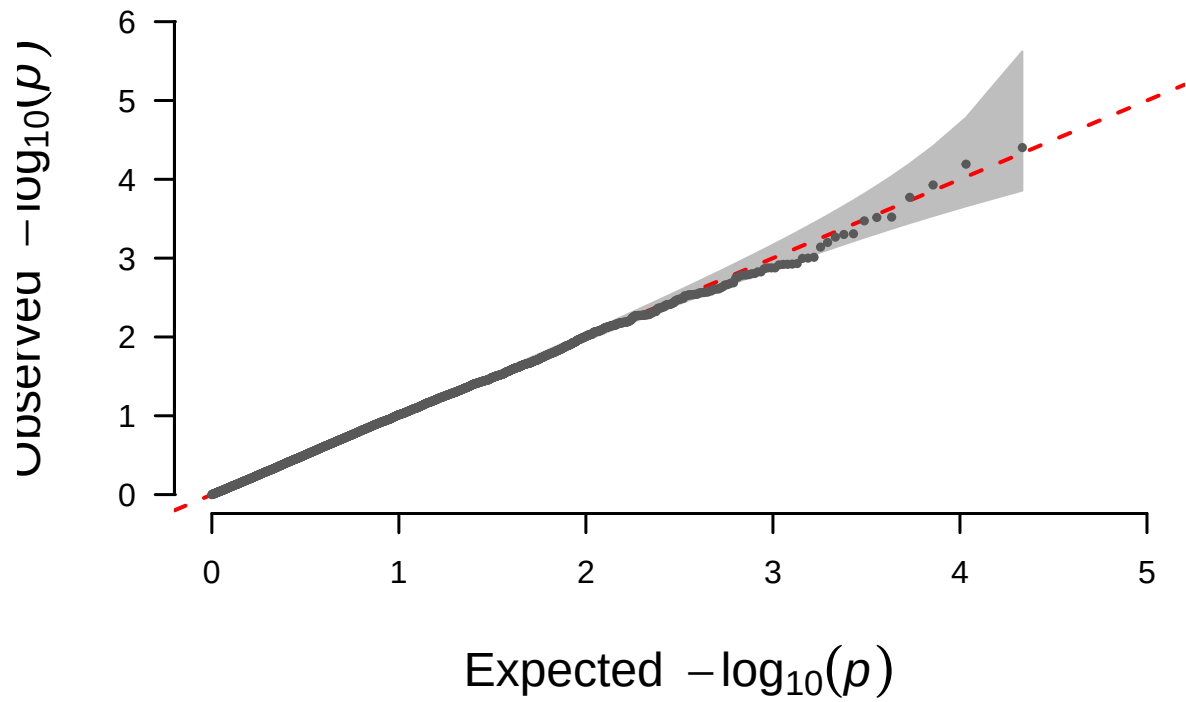
Q-Q plotting BLINK.

BLINK



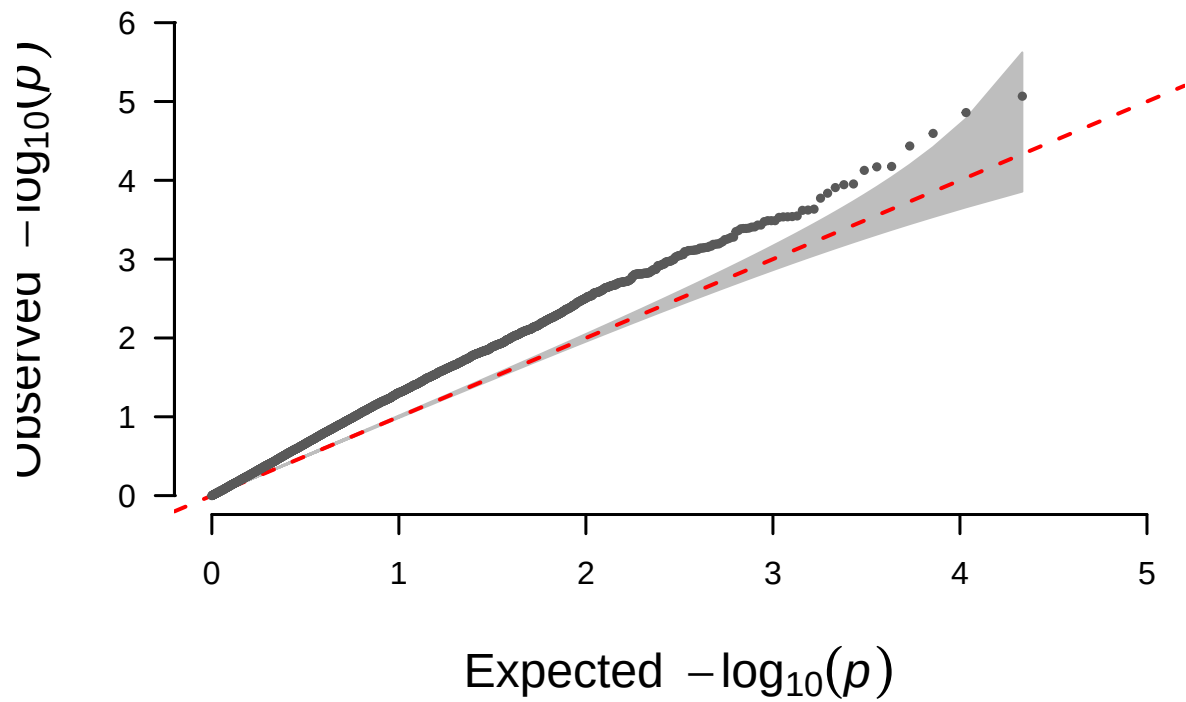
Q-Q plotting FarmCPU.

FarmCPU



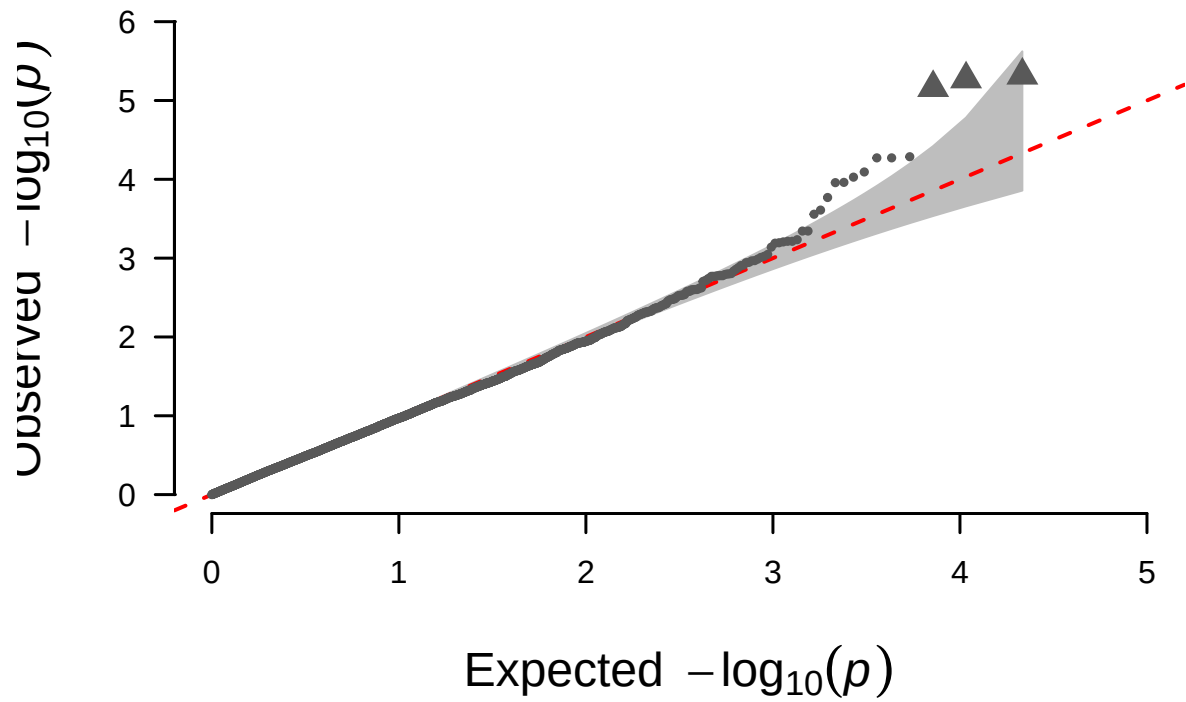
Q-Q plotting GLM.

GLM



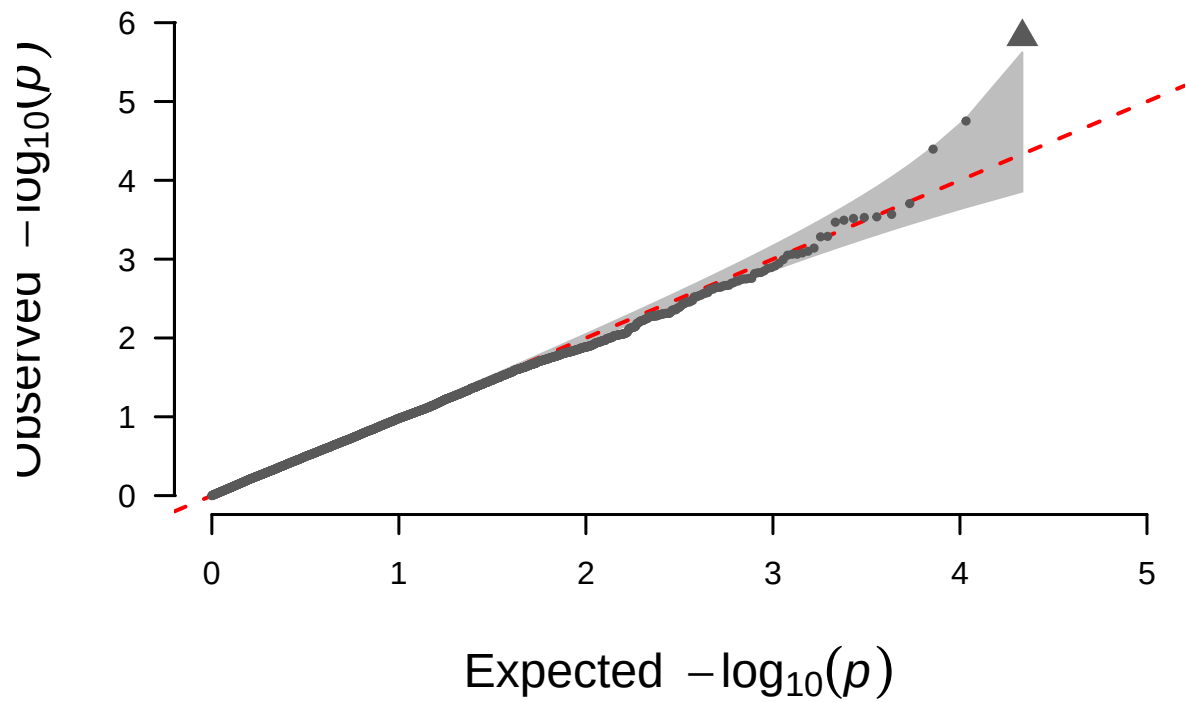
Q-Q plotting MLM.

MLM



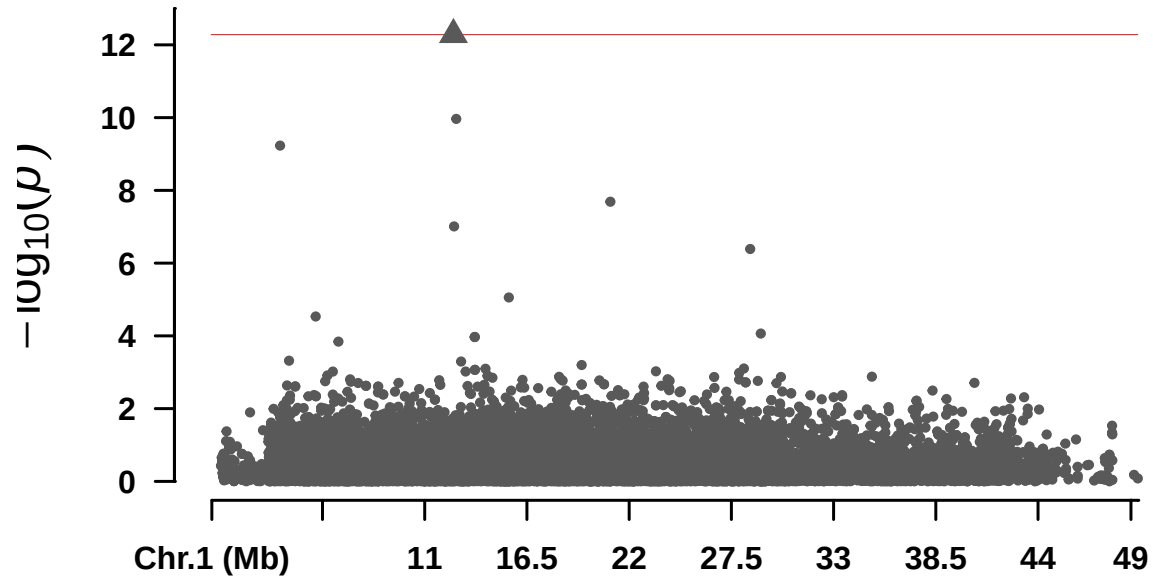
Q-Q plotting MLMM.

MLMM

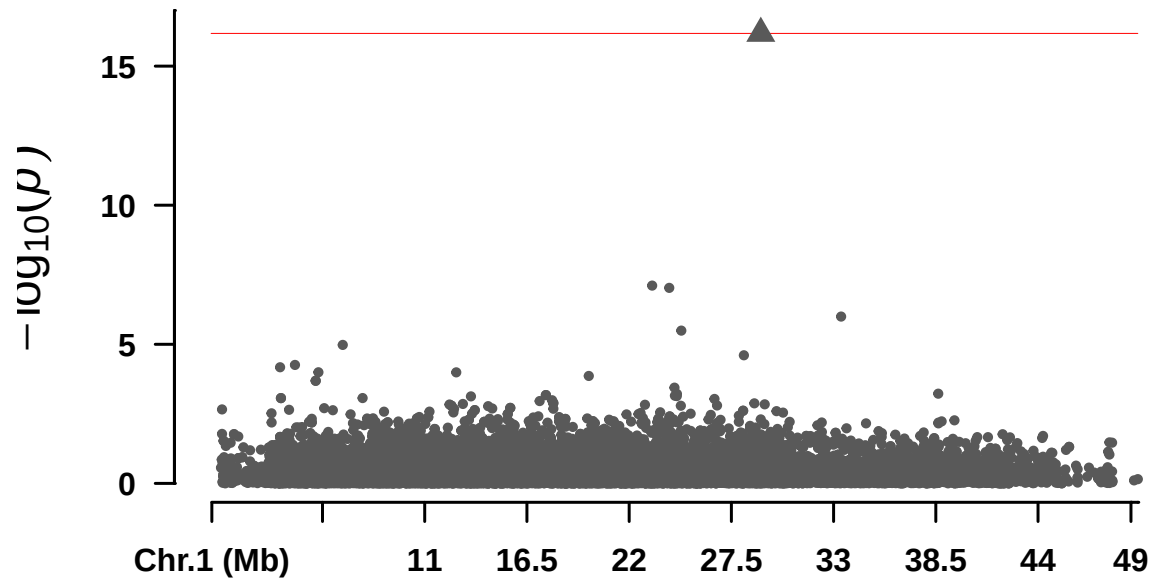


PFM

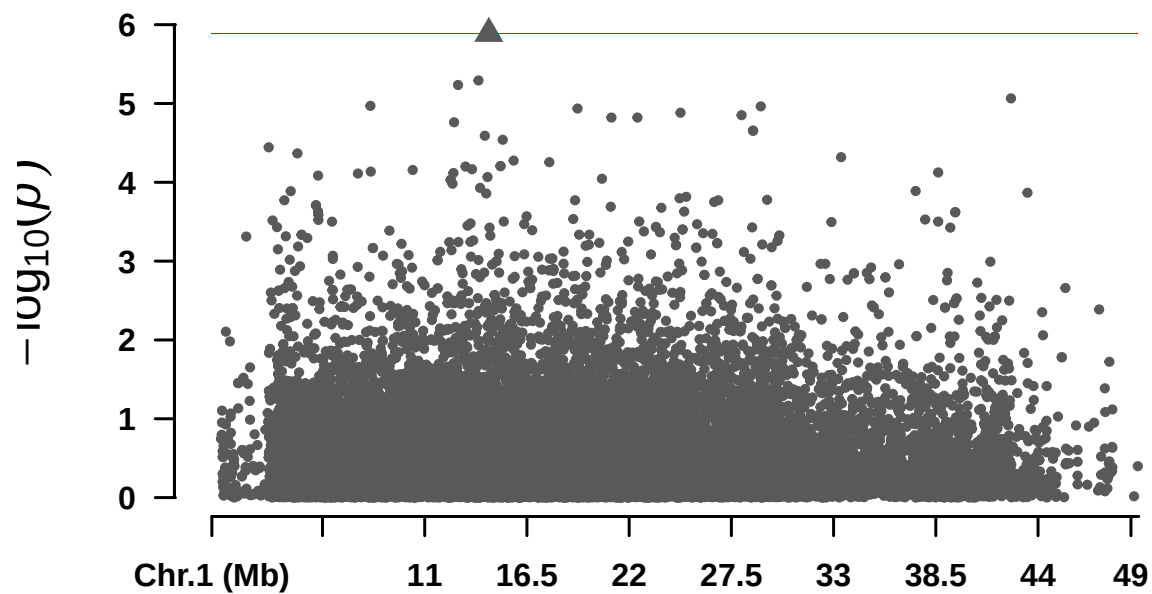
Rectangular Manhattan plotting BLINK.



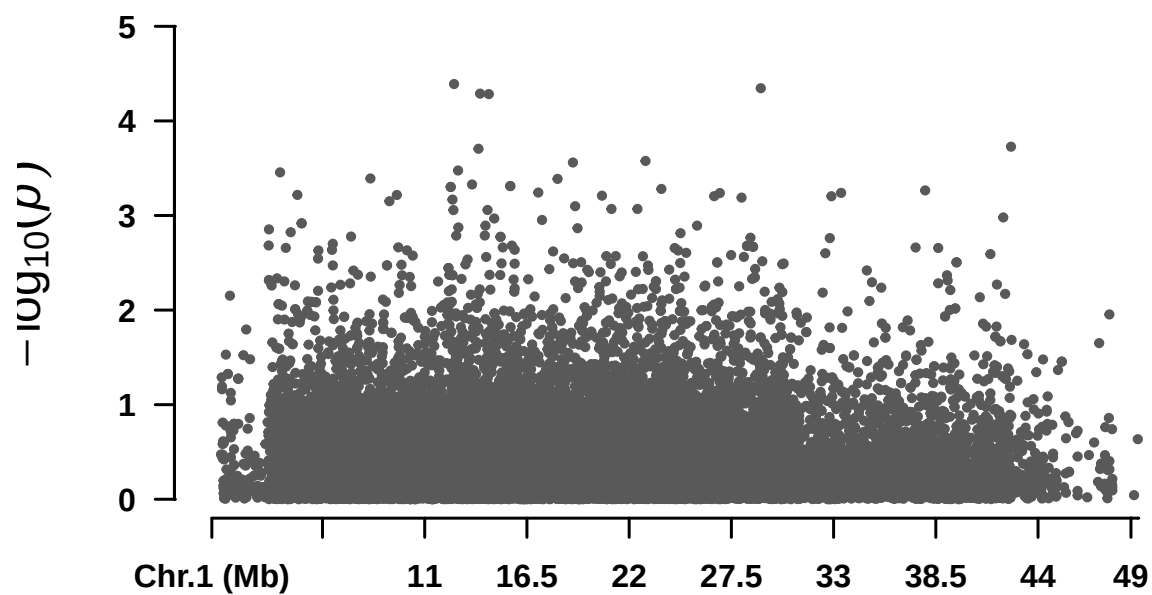
Rectangular Manhattan plotting FarmCPU.



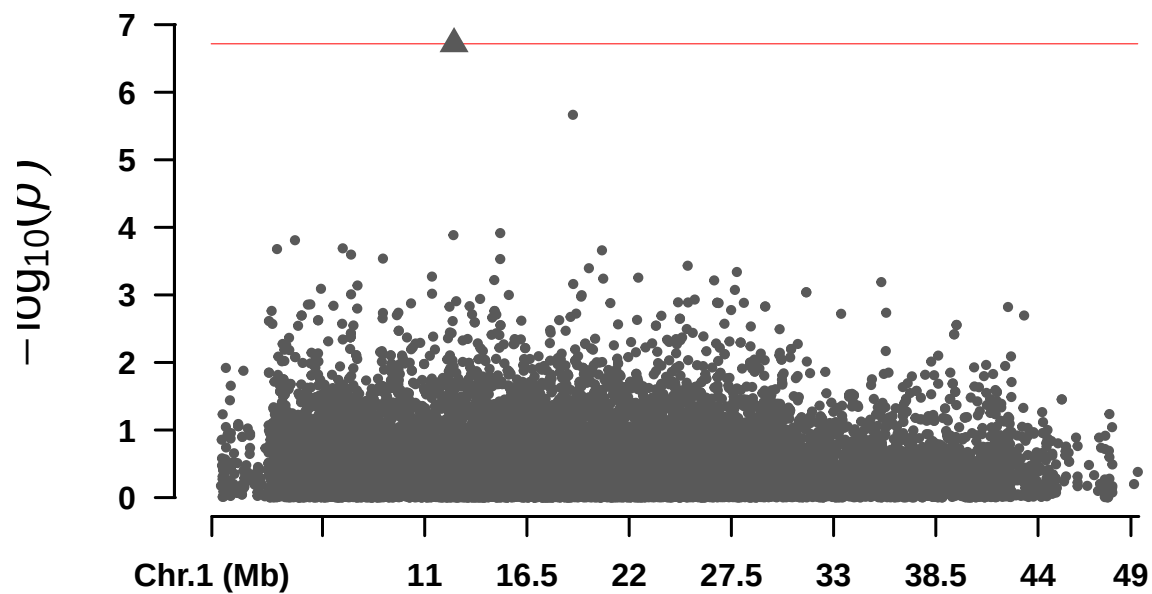
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

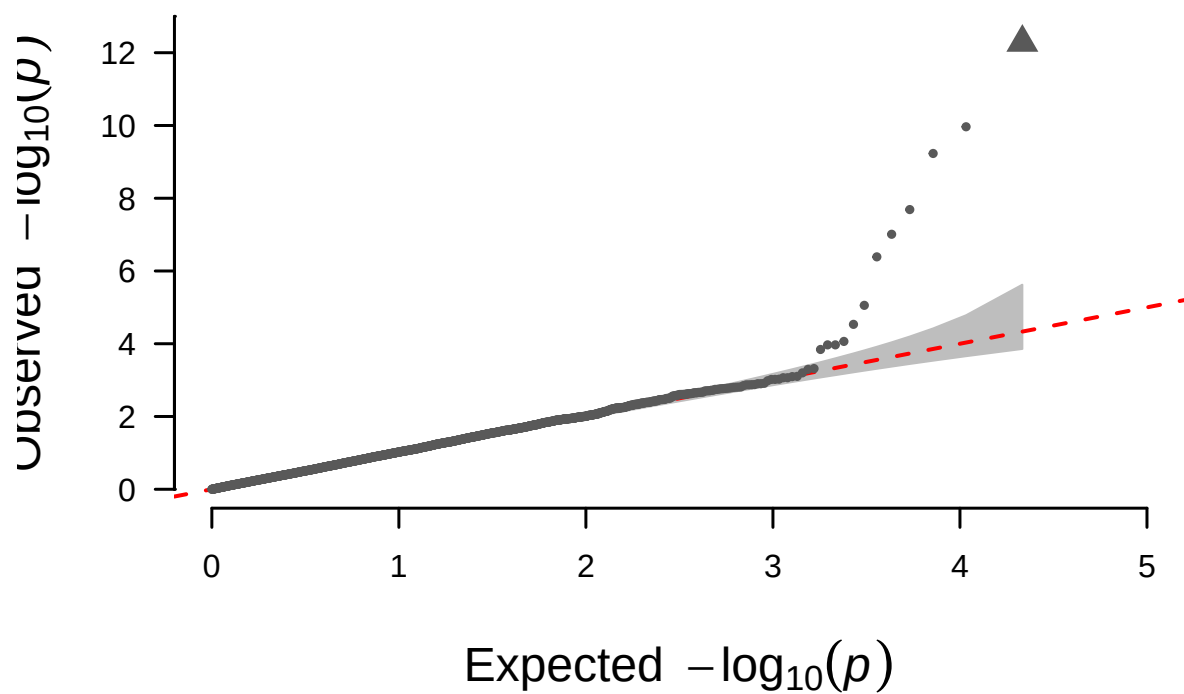


Rectangular Manhattan plotting MLMM.



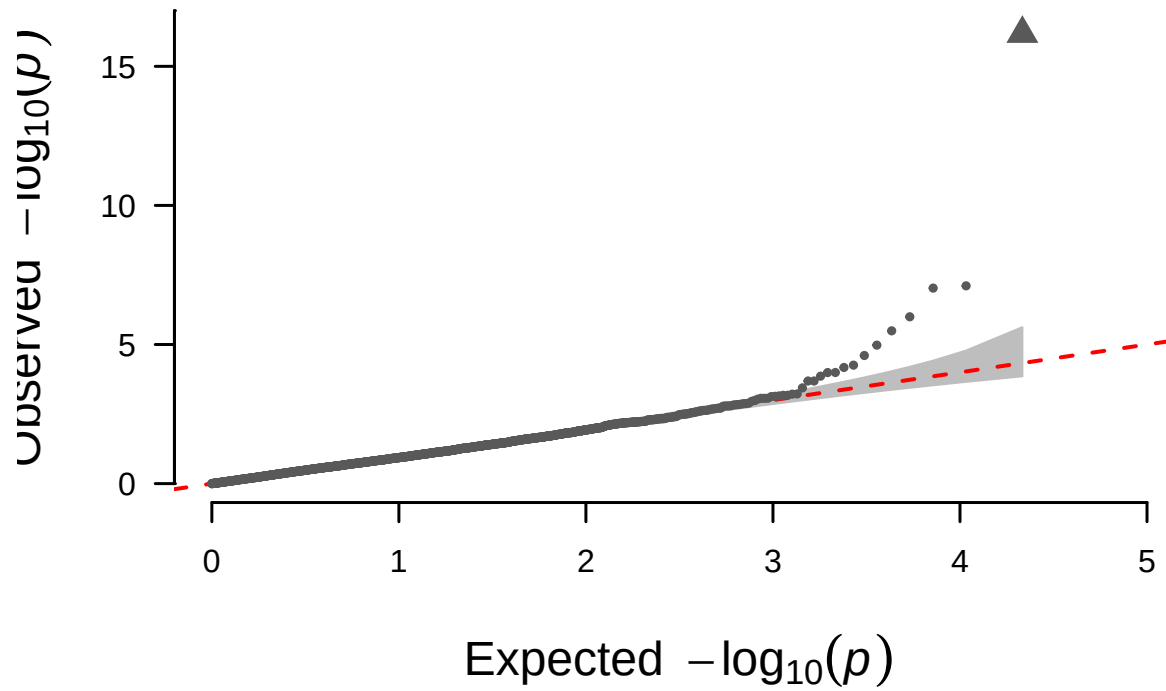
Q-Q plotting BLINK.

BLINK



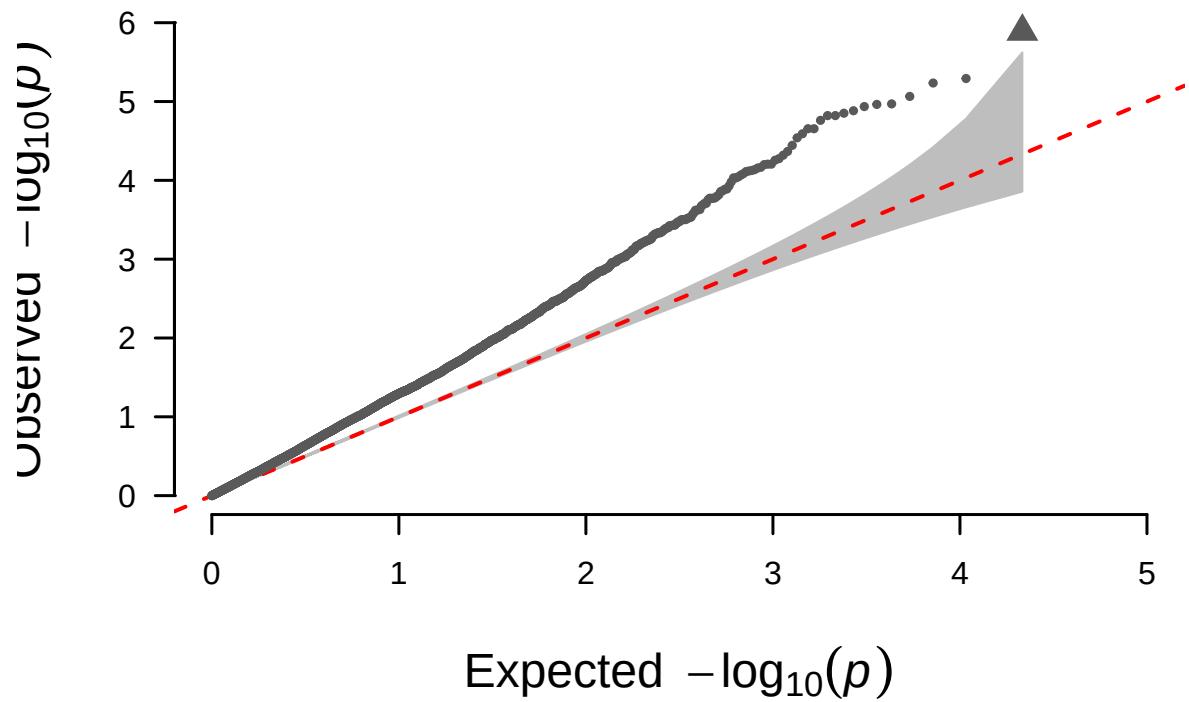
Q-Q plotting FarmCPU.

FarmCPU



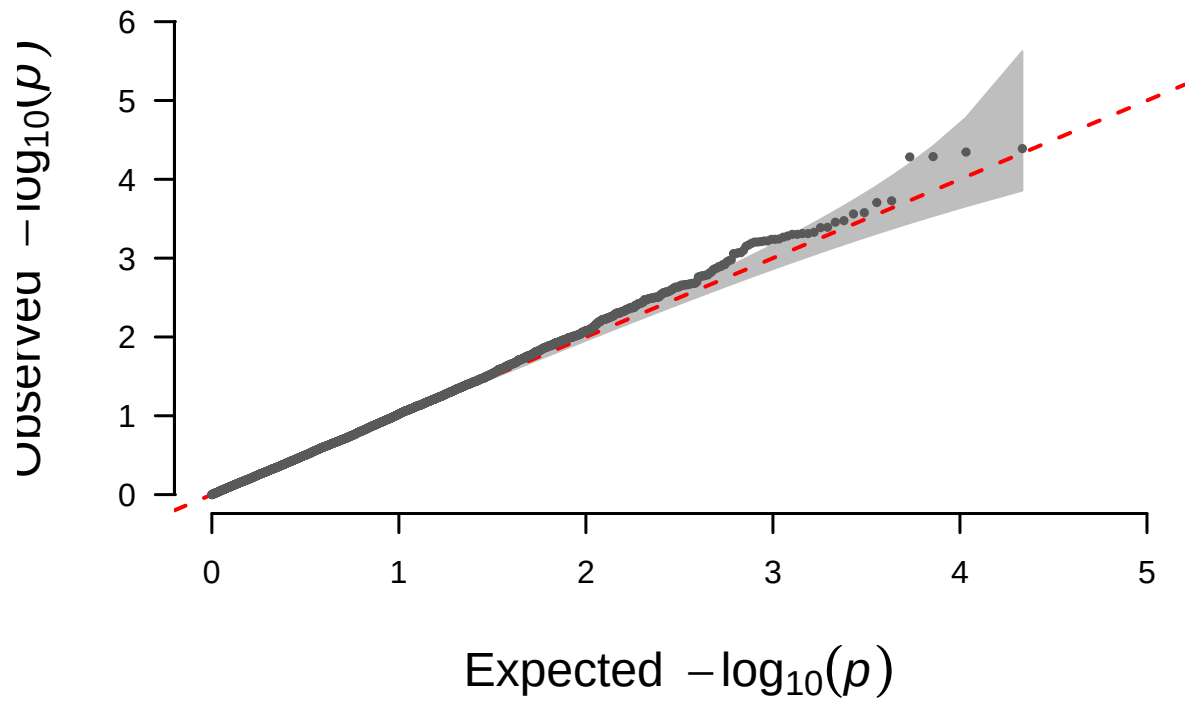
Q-Q plotting GLM.

GLM



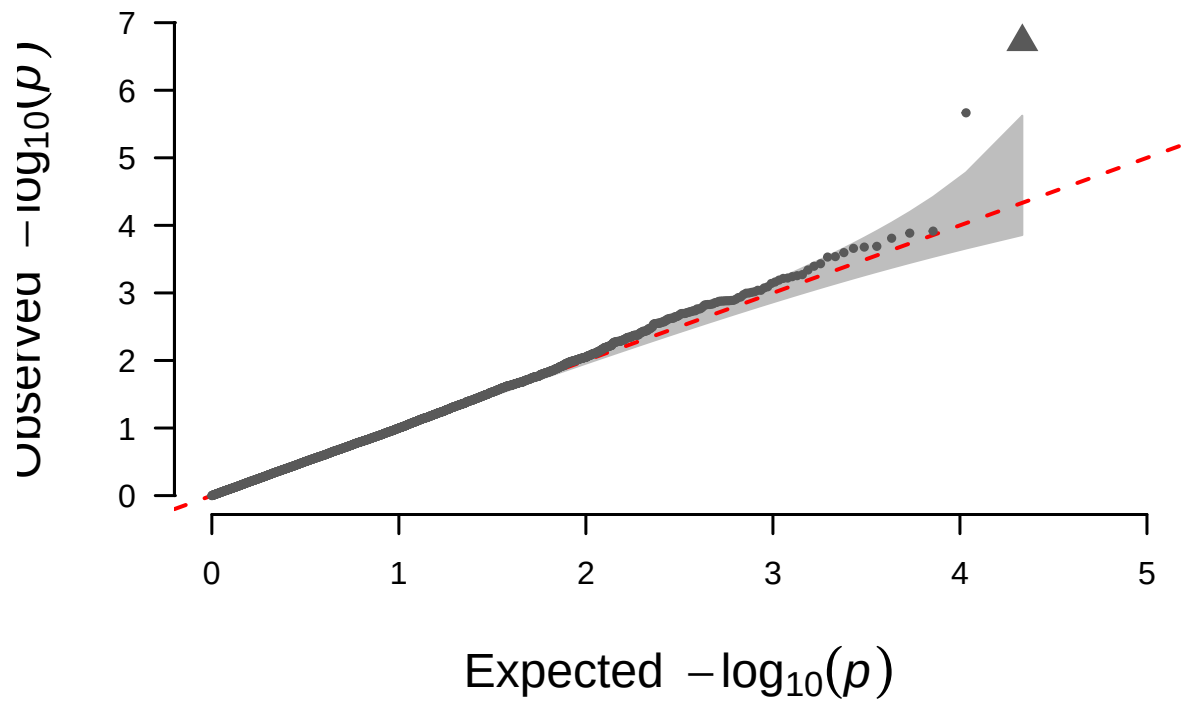
Q-Q plotting MLM.

MLM



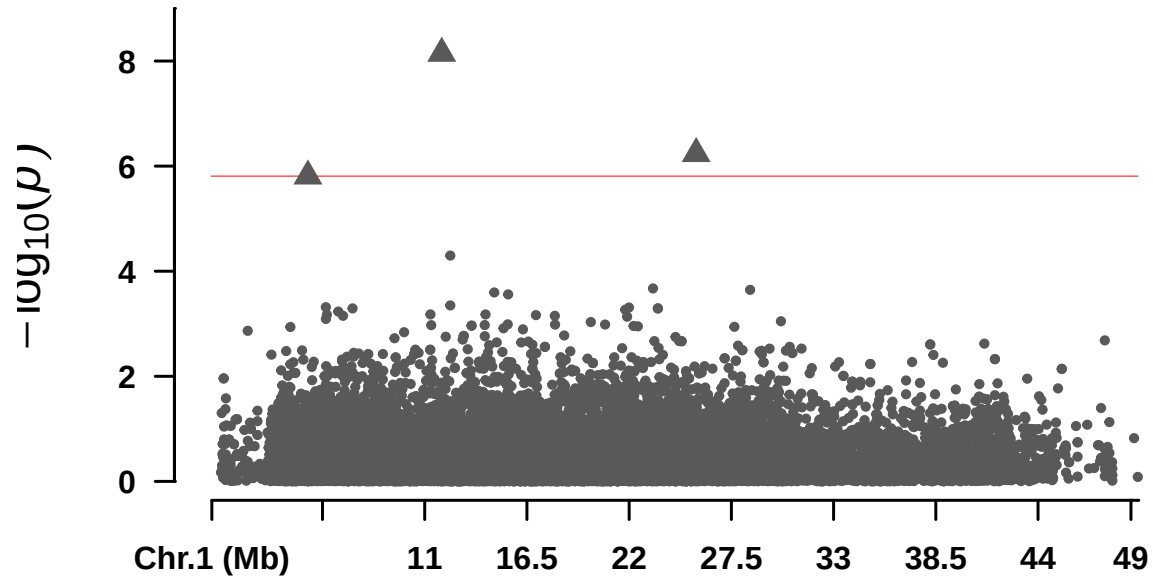
Q-Q plotting MLM.

MLMM

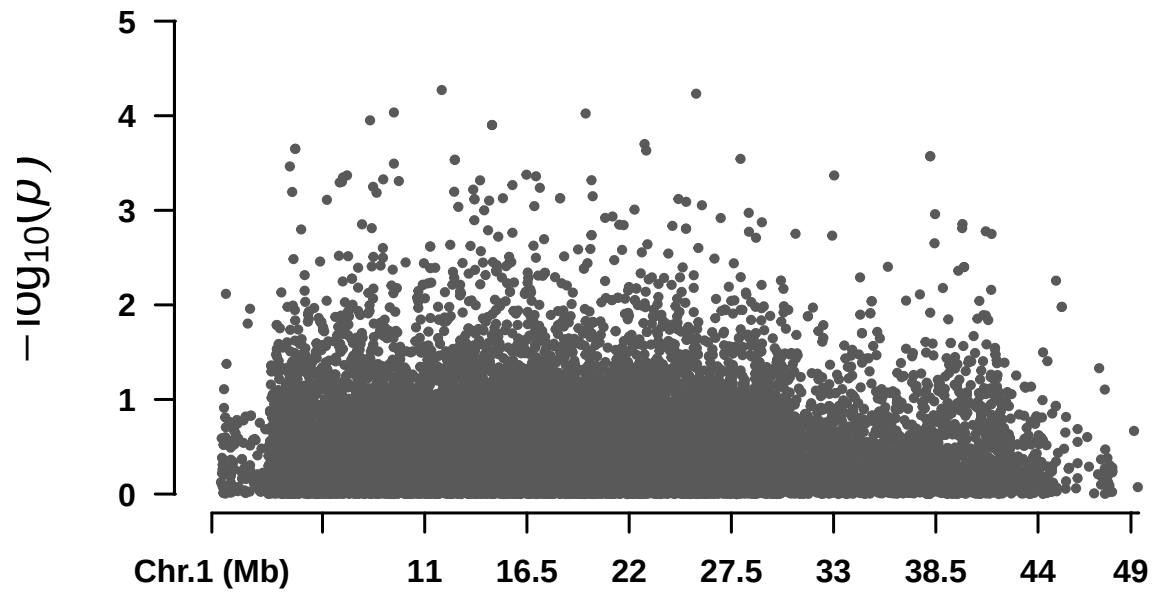


KFM

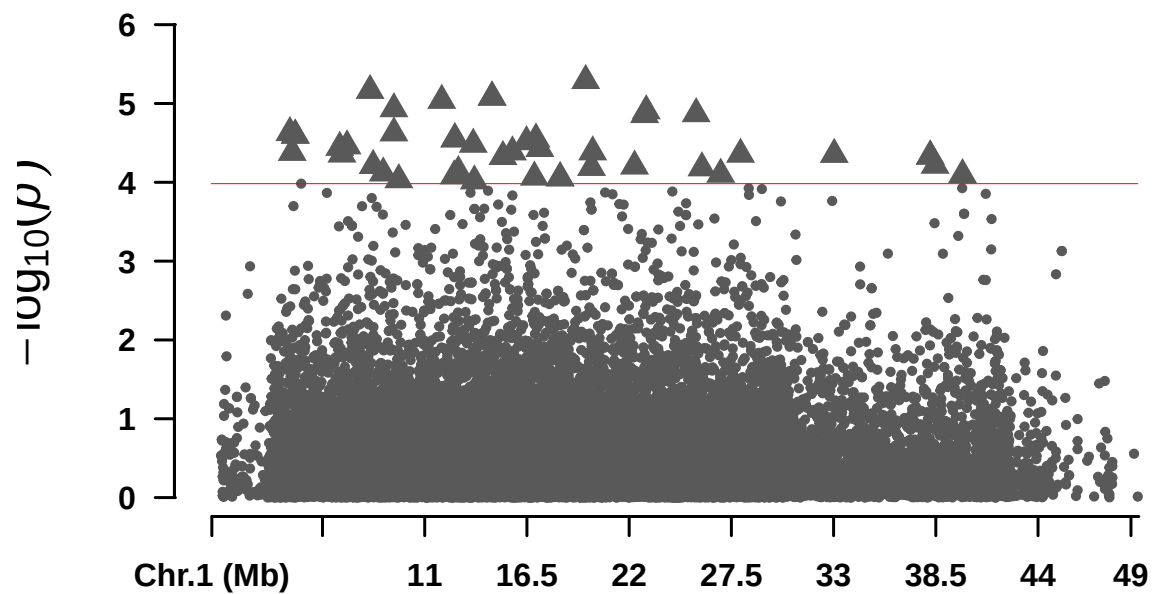
Rectangular Manhattan plotting BLINK.



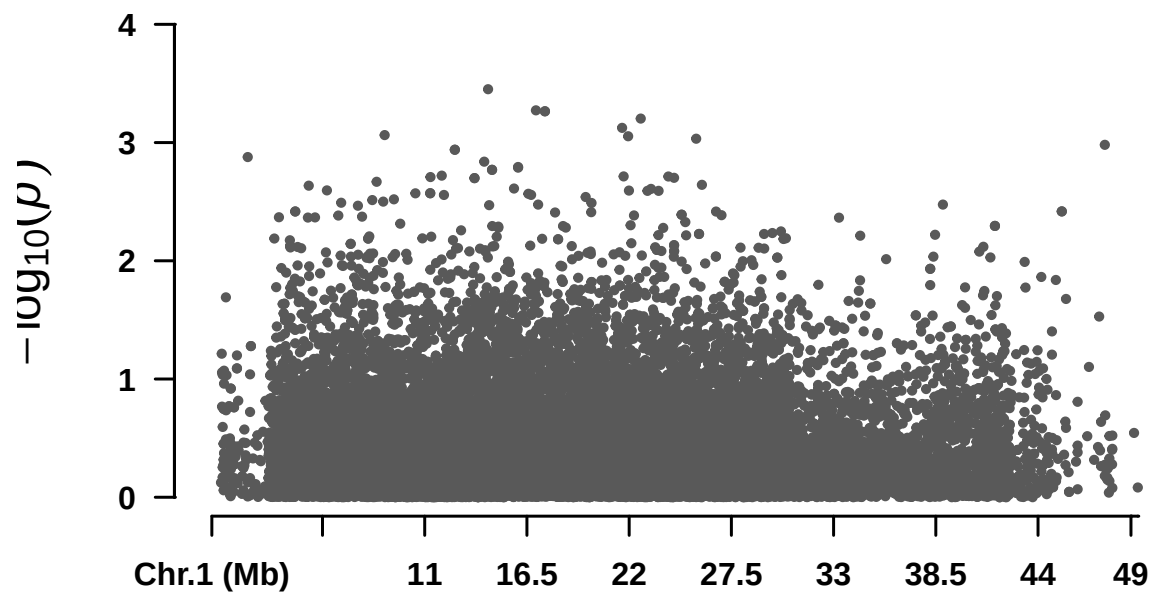
Rectangular Manhattan plotting FarmCPU.



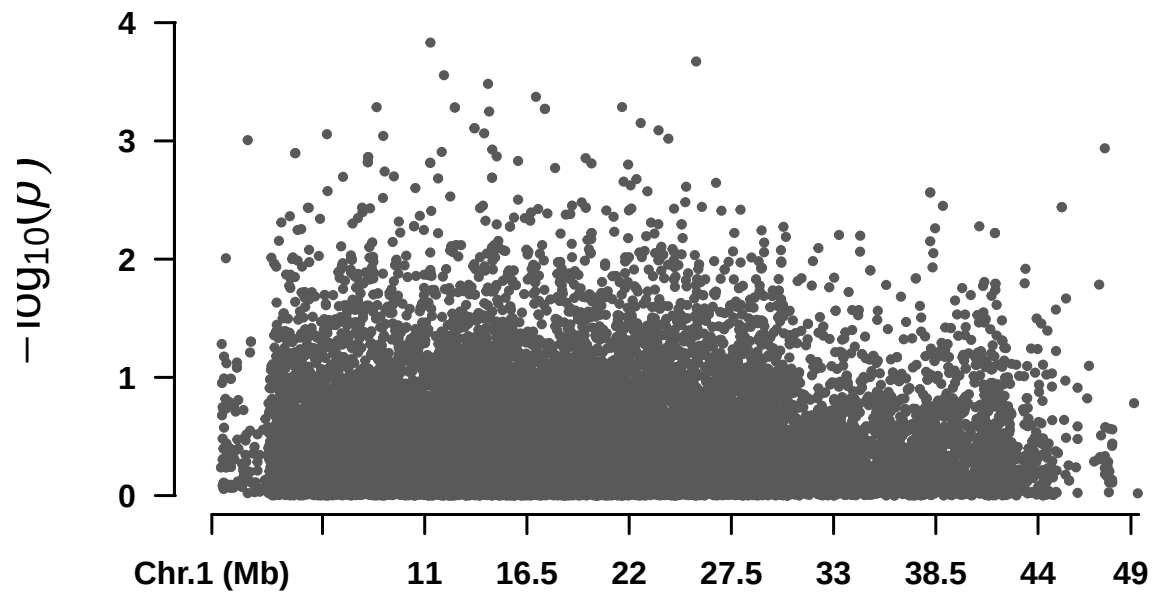
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

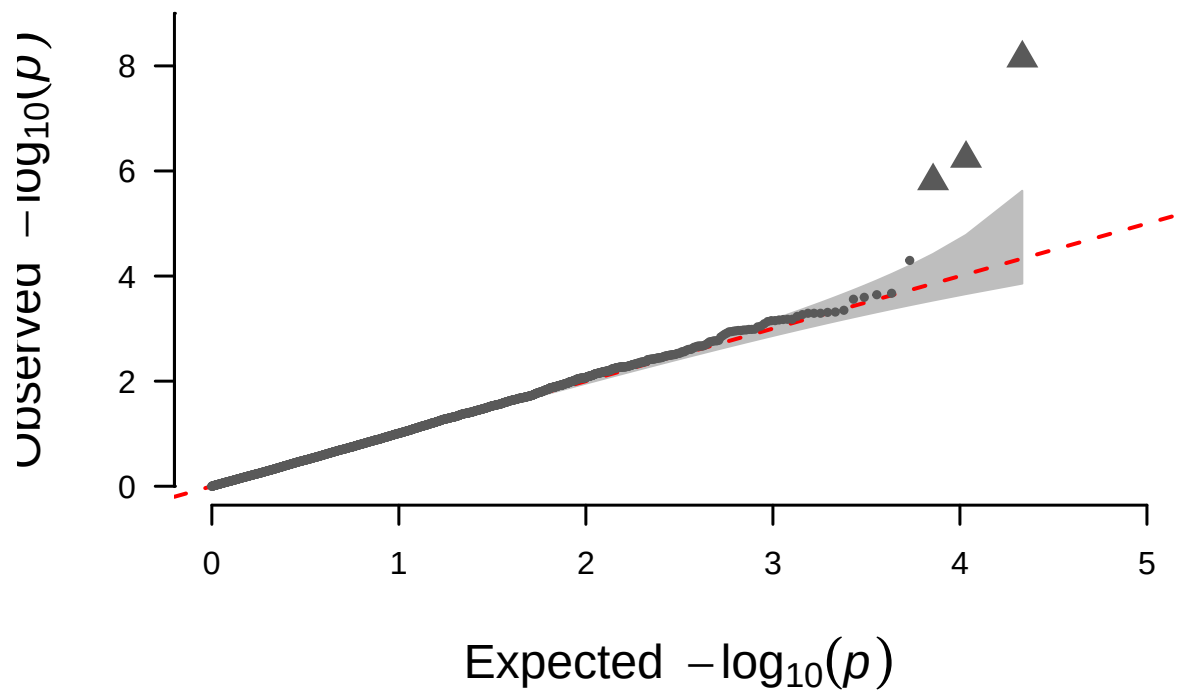


Rectangular Manhattan plotting MLMM.



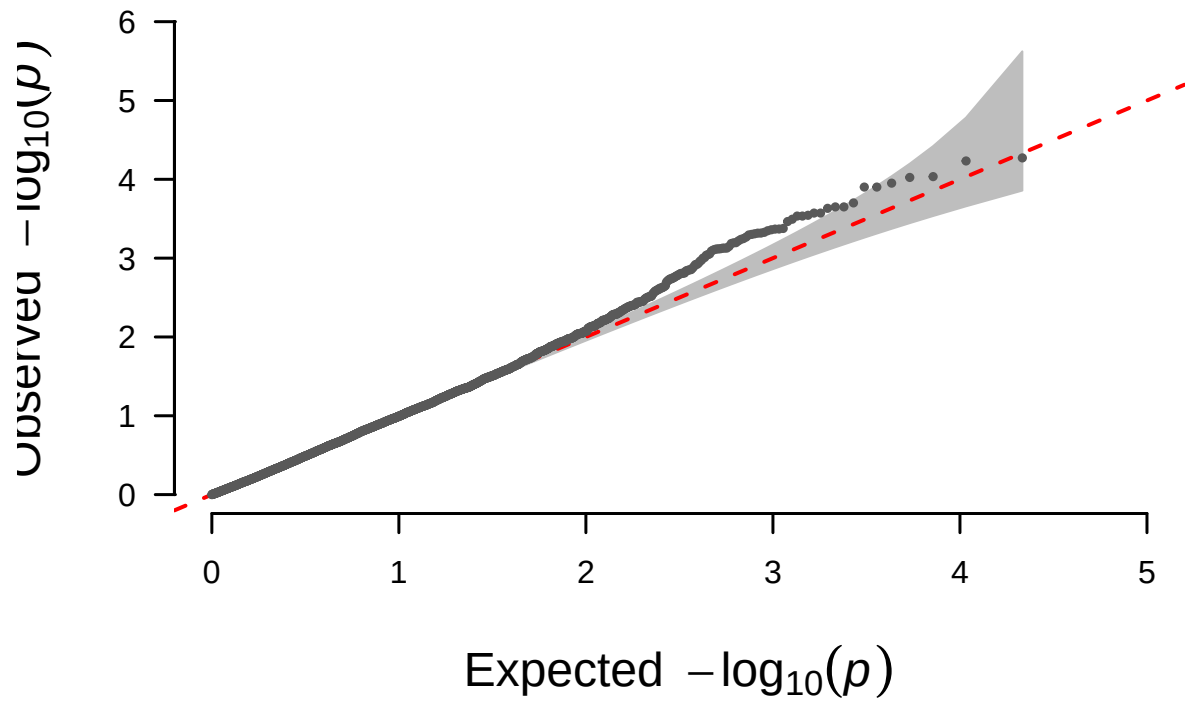
Q-Q plotting BLINK.

BLINK



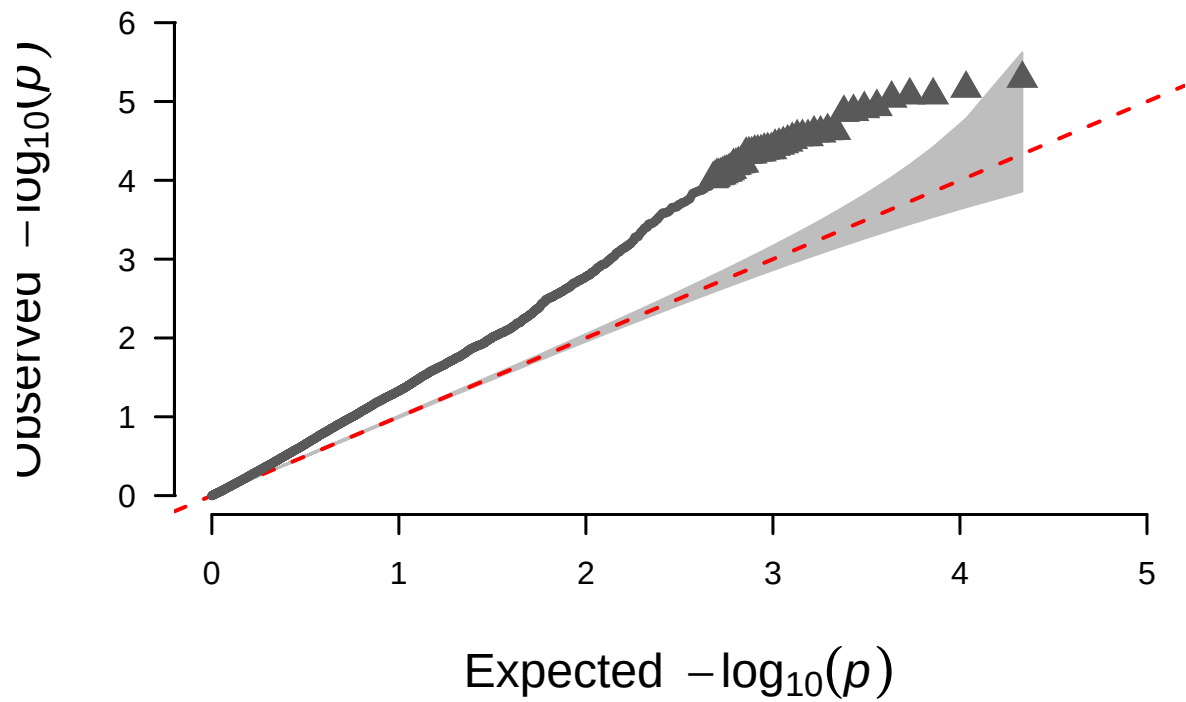
Q-Q plotting FarmCPU.

FarmCPU



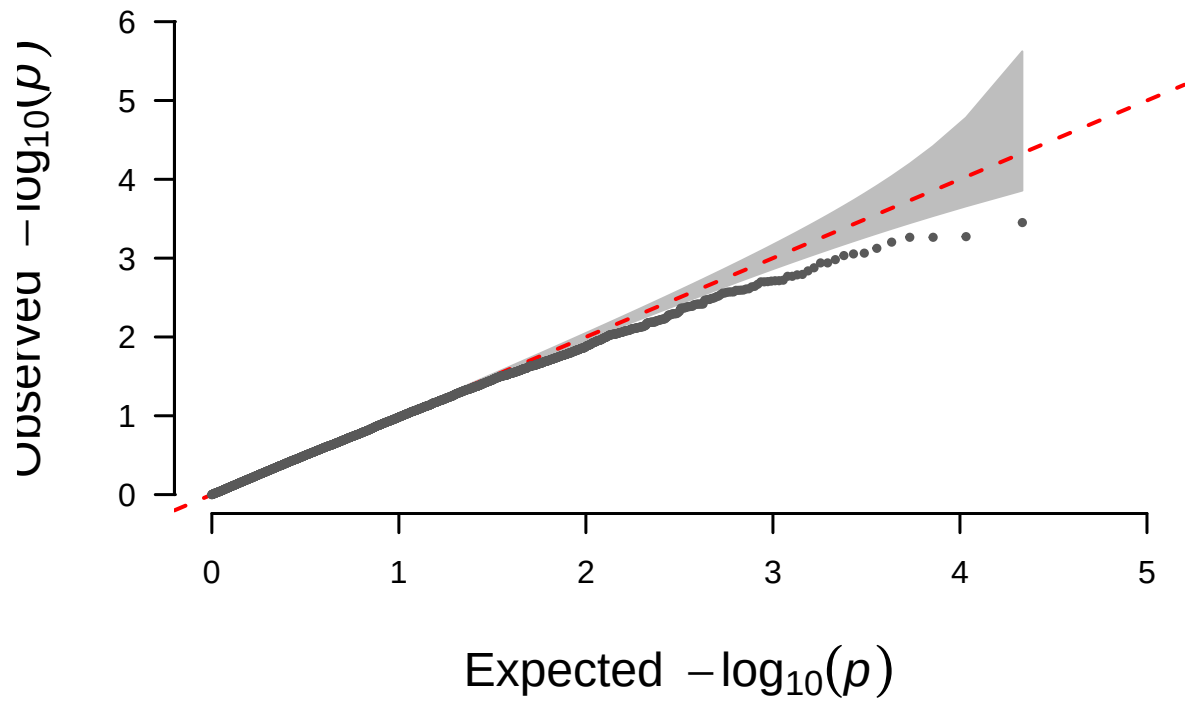
Q-Q plotting GLM.

GLM



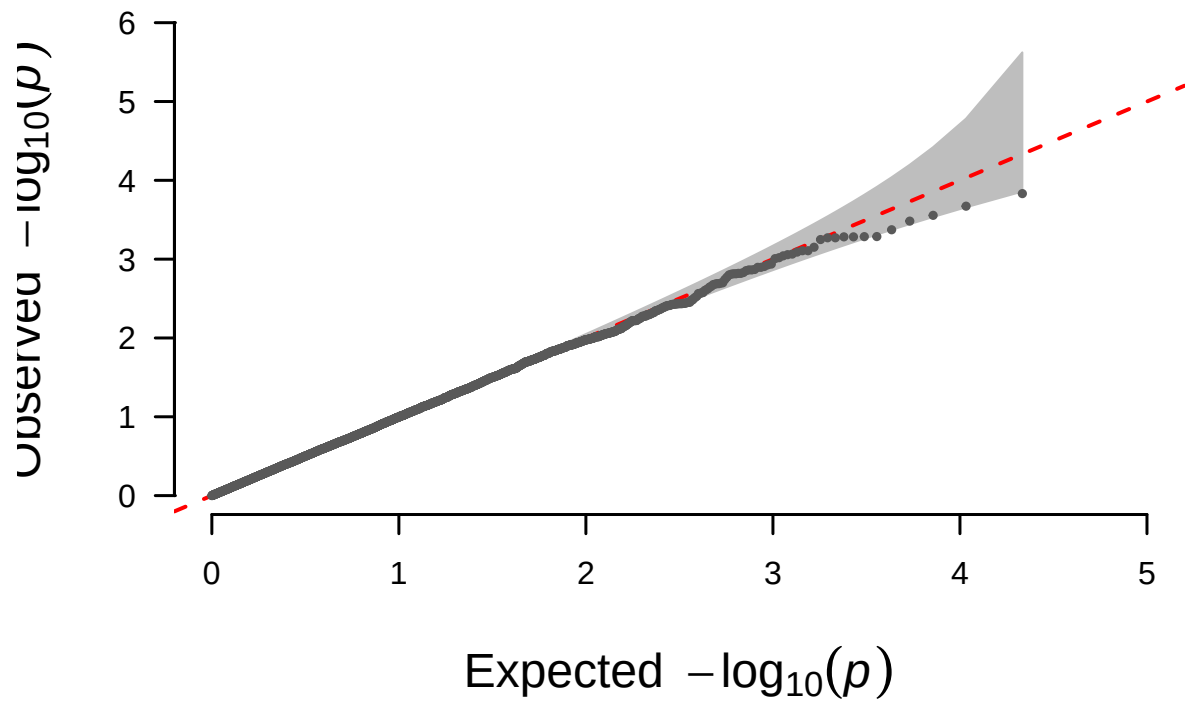
Q-Q plotting MLM.

MLM



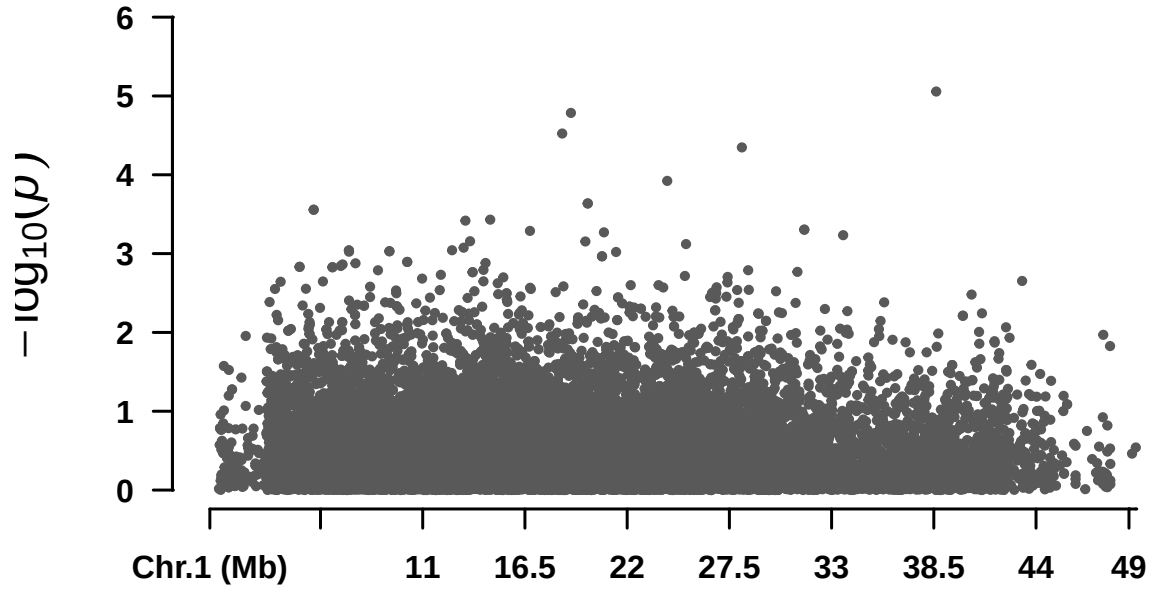
Q-Q plotting MLMM.

MLMM

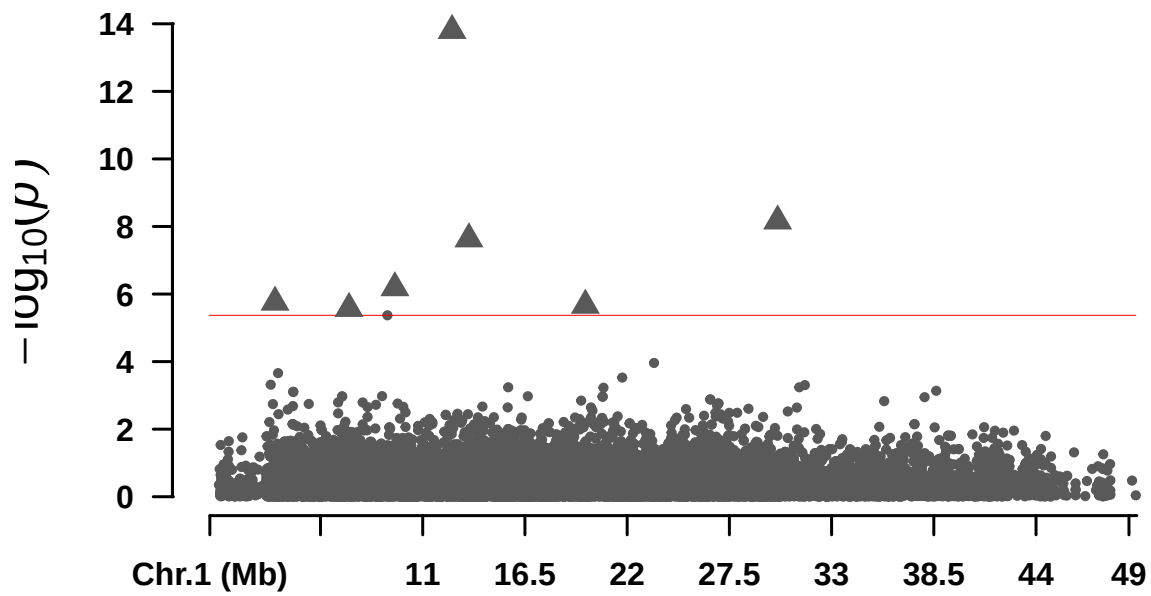


FM

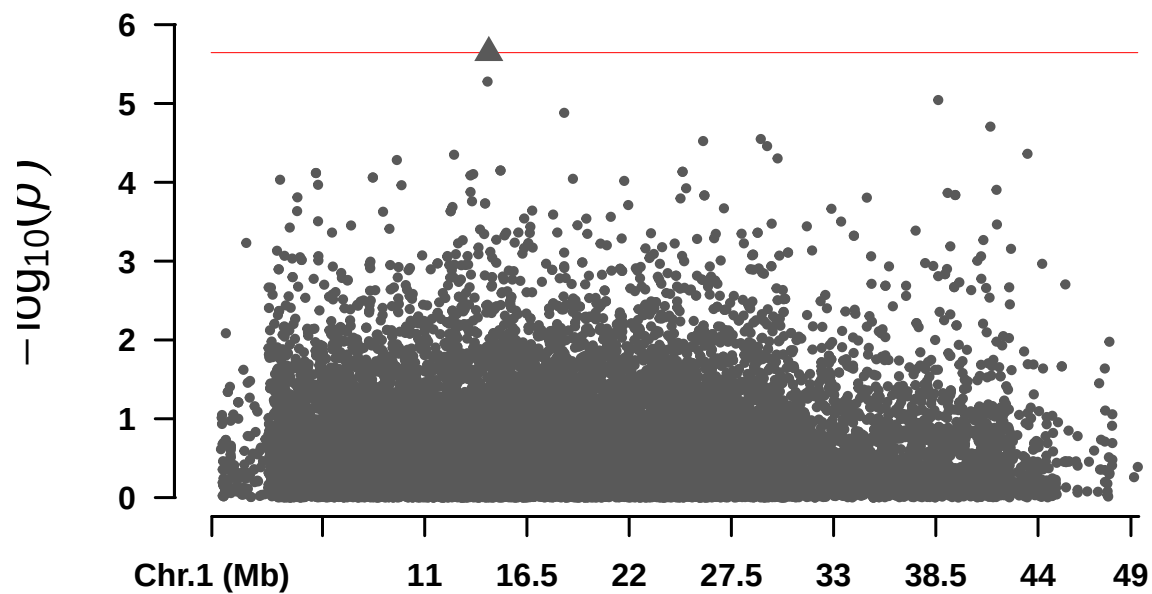
Rectangular Manhattan plotting BLINK.



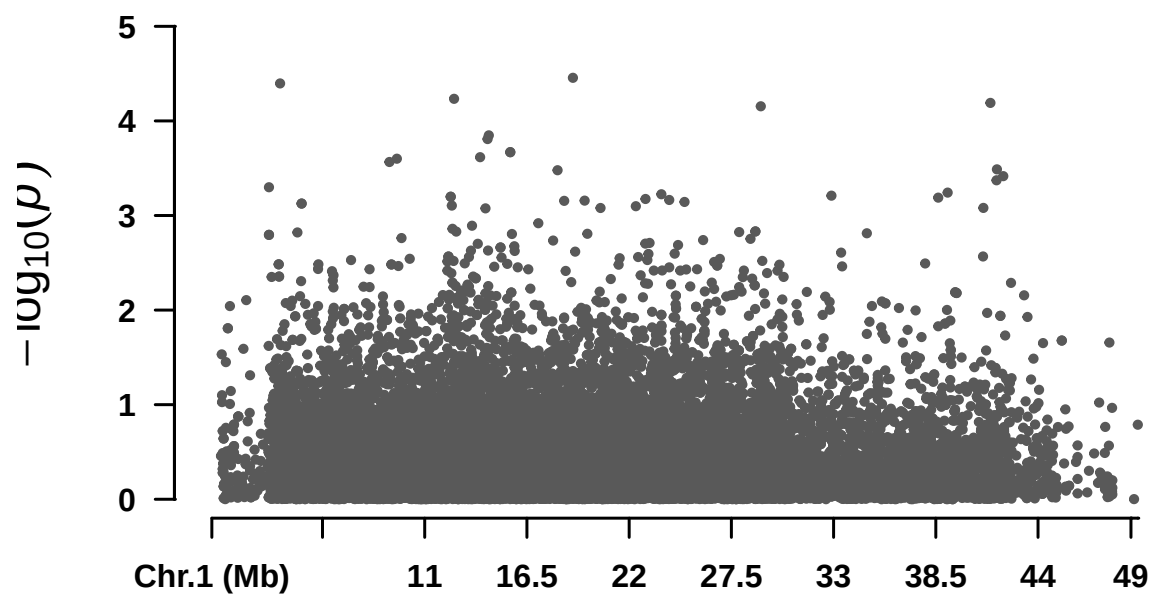
Rectangular Manhattan plotting FarmCPU.



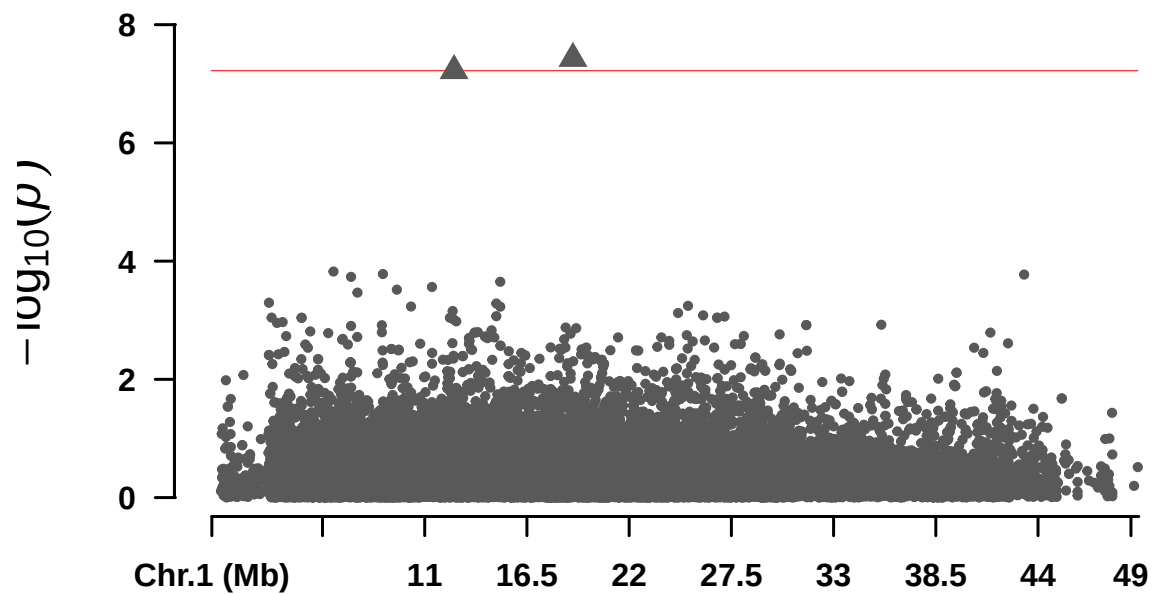
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

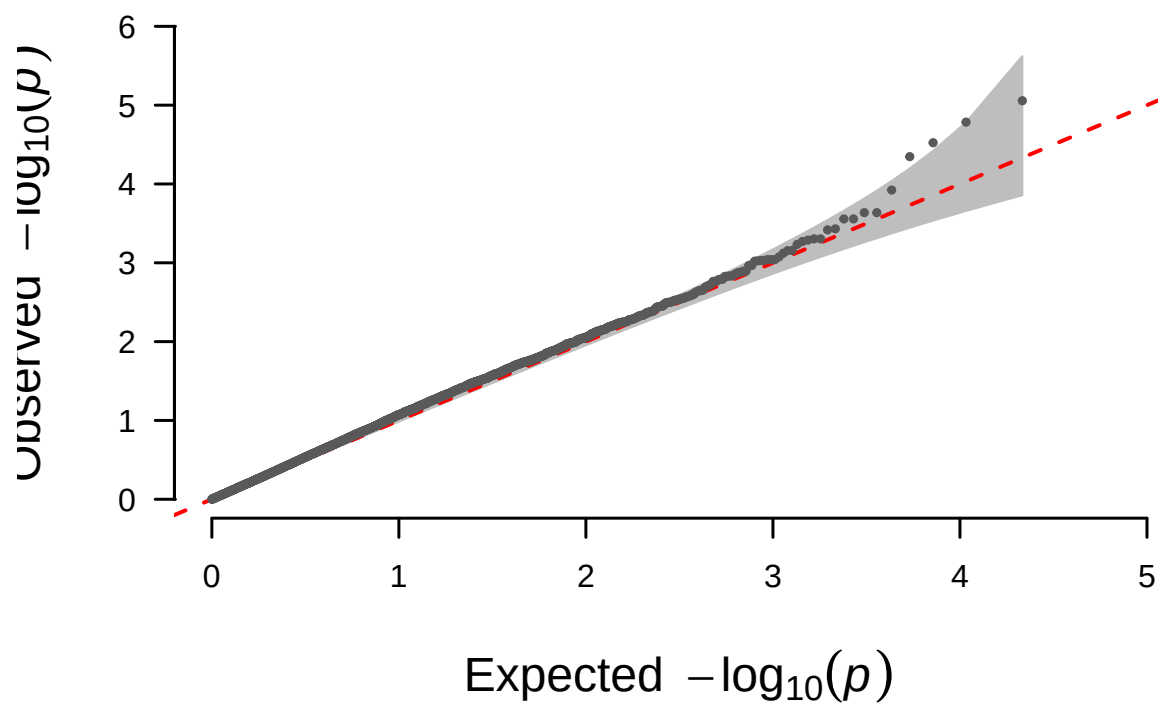


Rectangular Manhattan plotting MLMM.



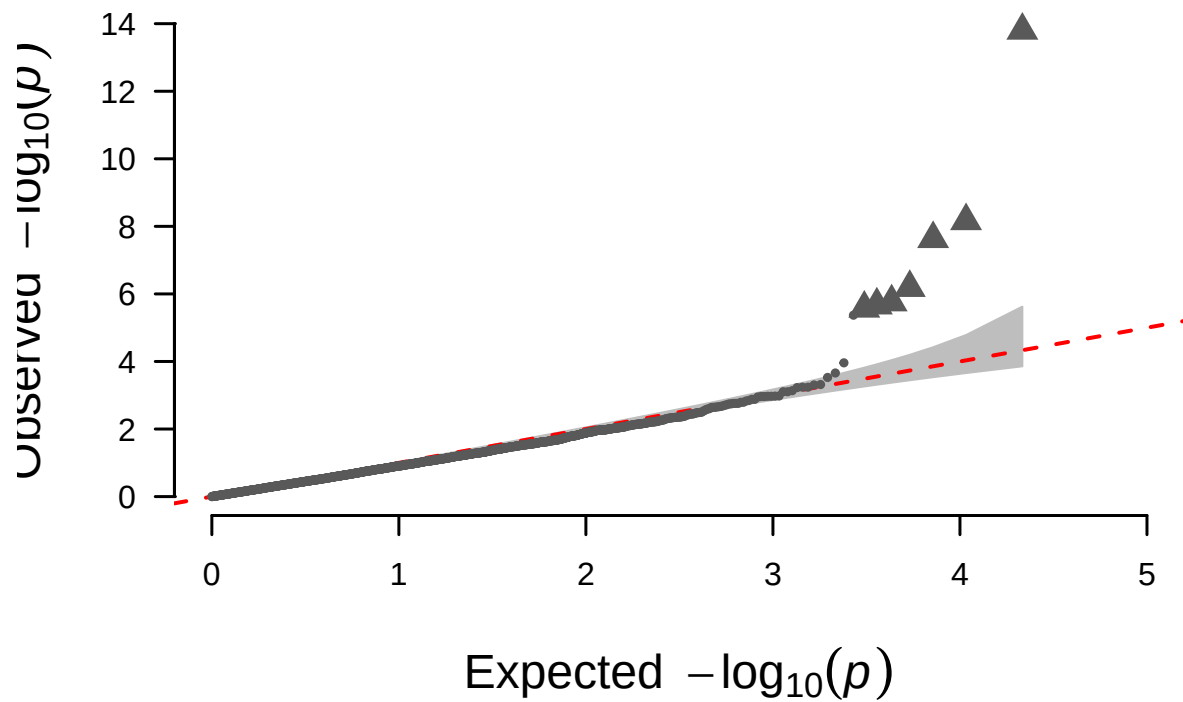
Q-Q plotting BLINK.

BLINK



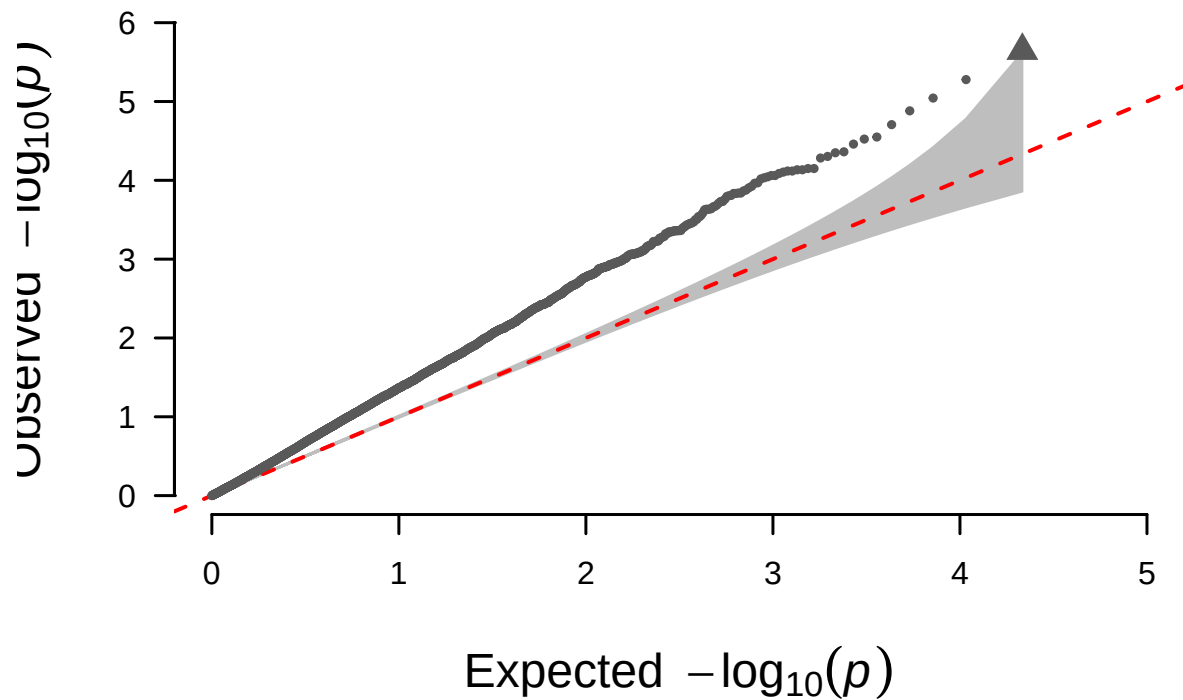
Q-Q plotting FarmCPU.

FarmCPU



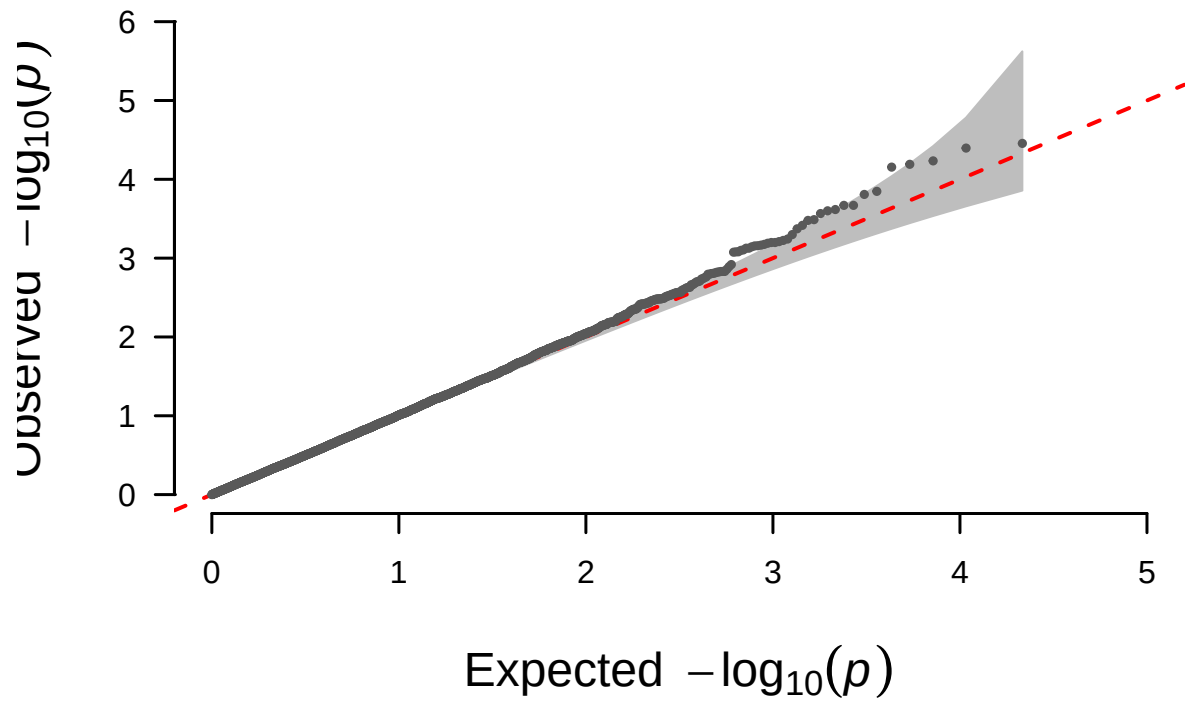
Q-Q plotting GLM.

GLM



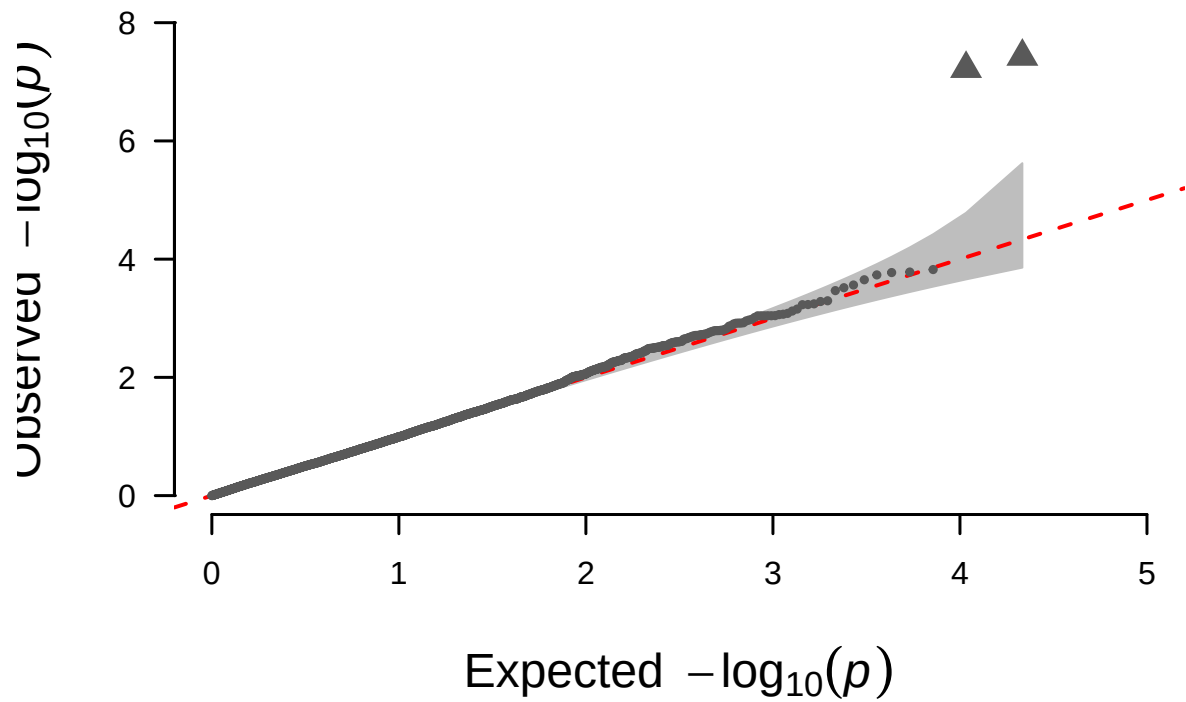
Q-Q plotting MLM.

MLM



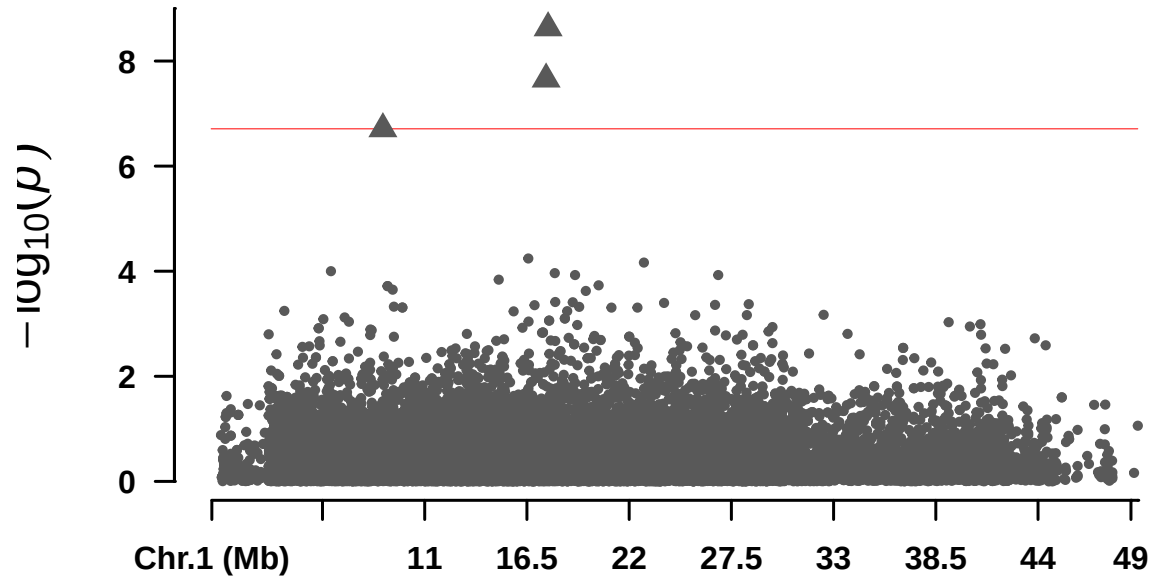
Q-Q plotting MLMM.

MLMM

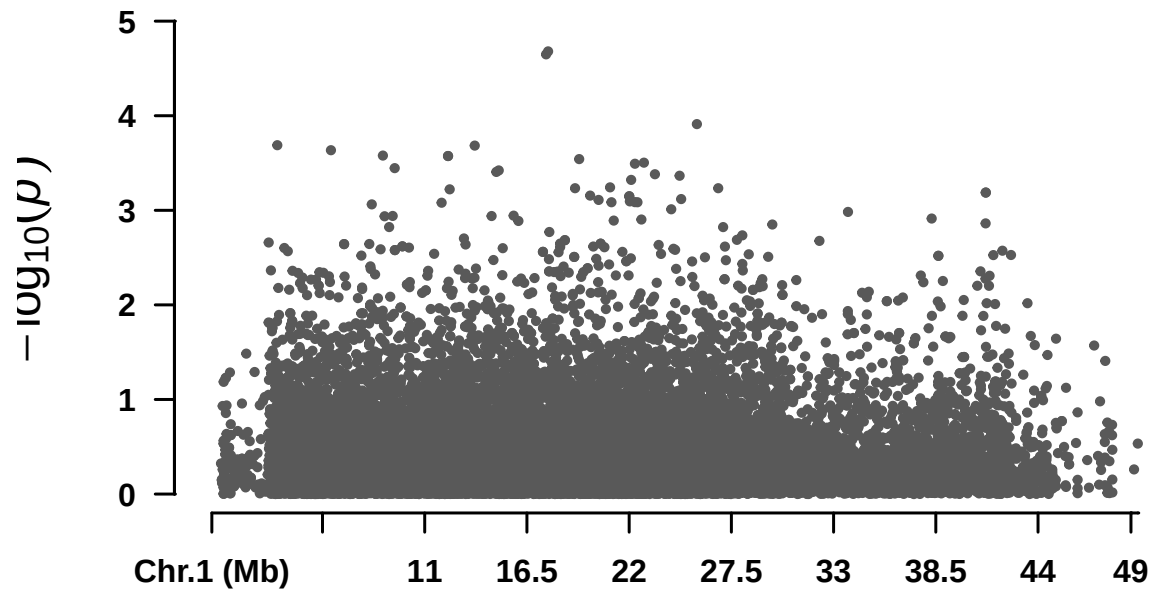


NW

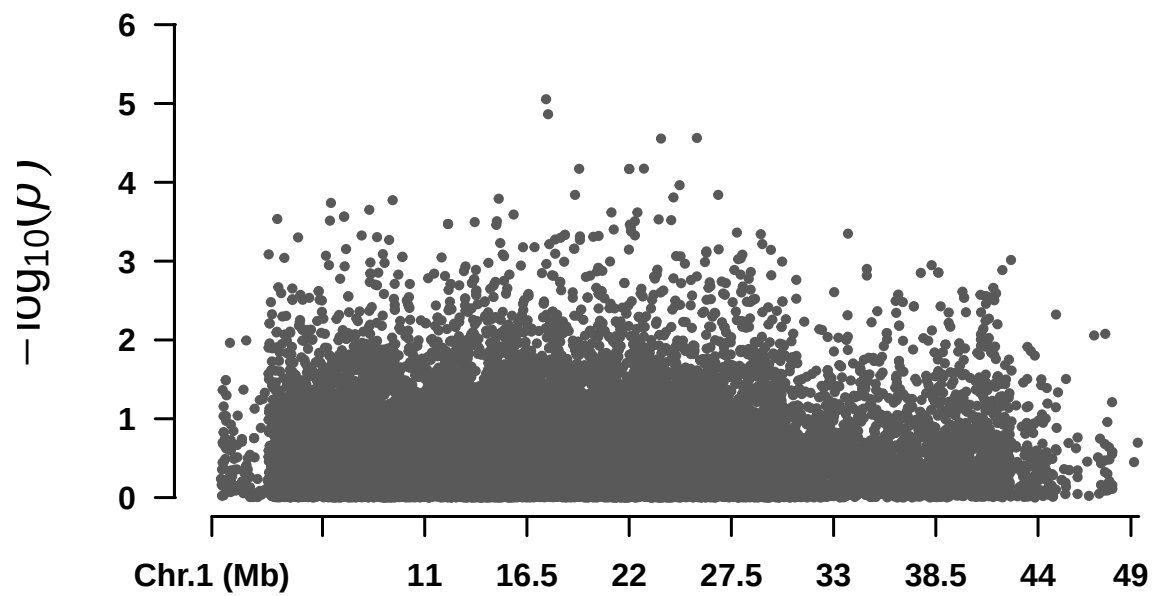
Rectangular Manhattan plotting BLINK.



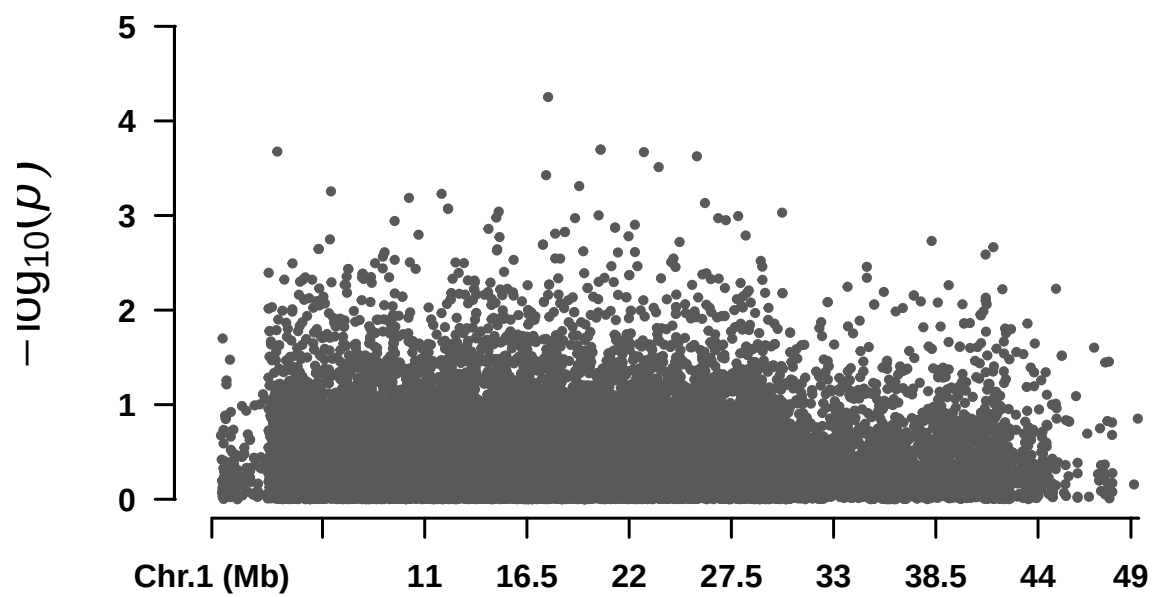
Rectangular Manhattan plotting FarmCPU.



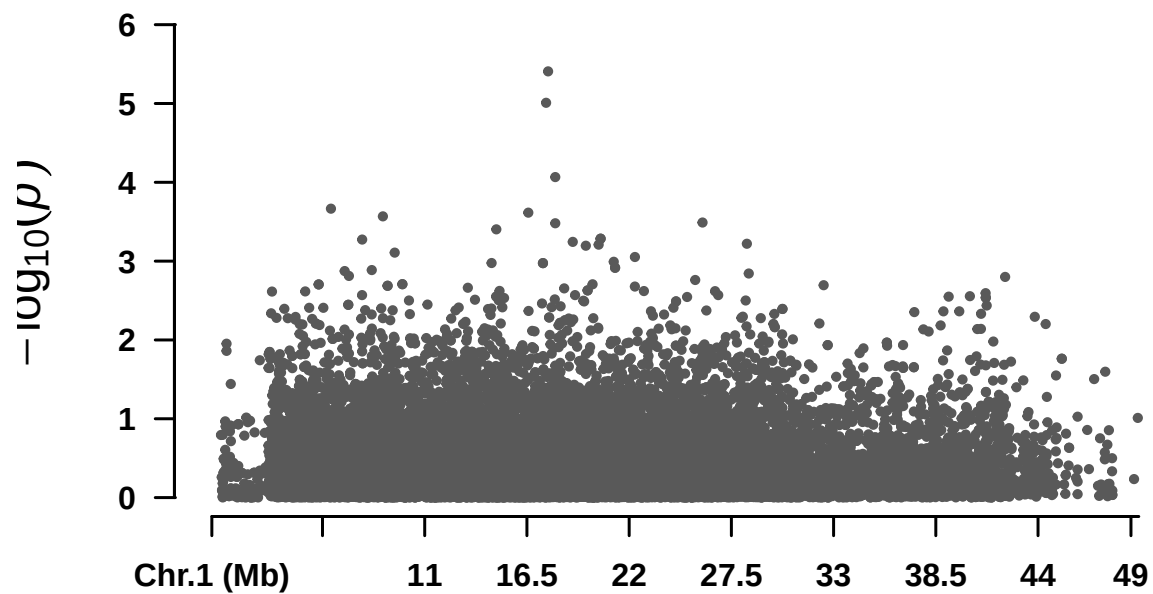
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

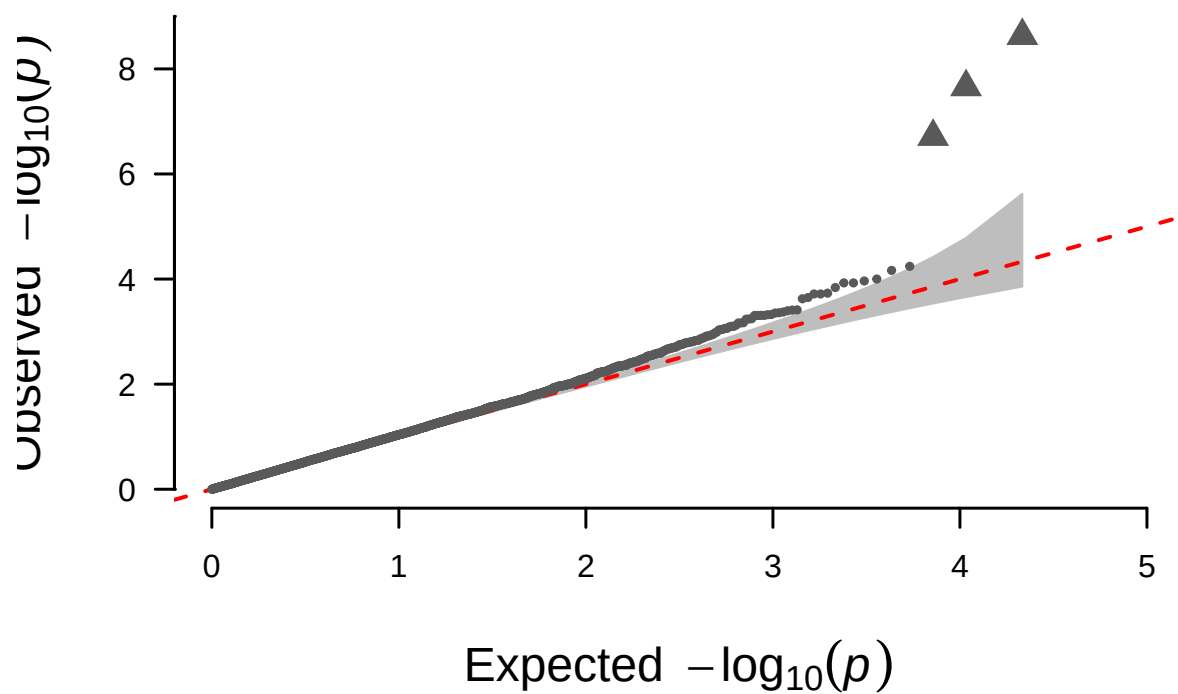


Rectangular Manhattan plotting MLMM.



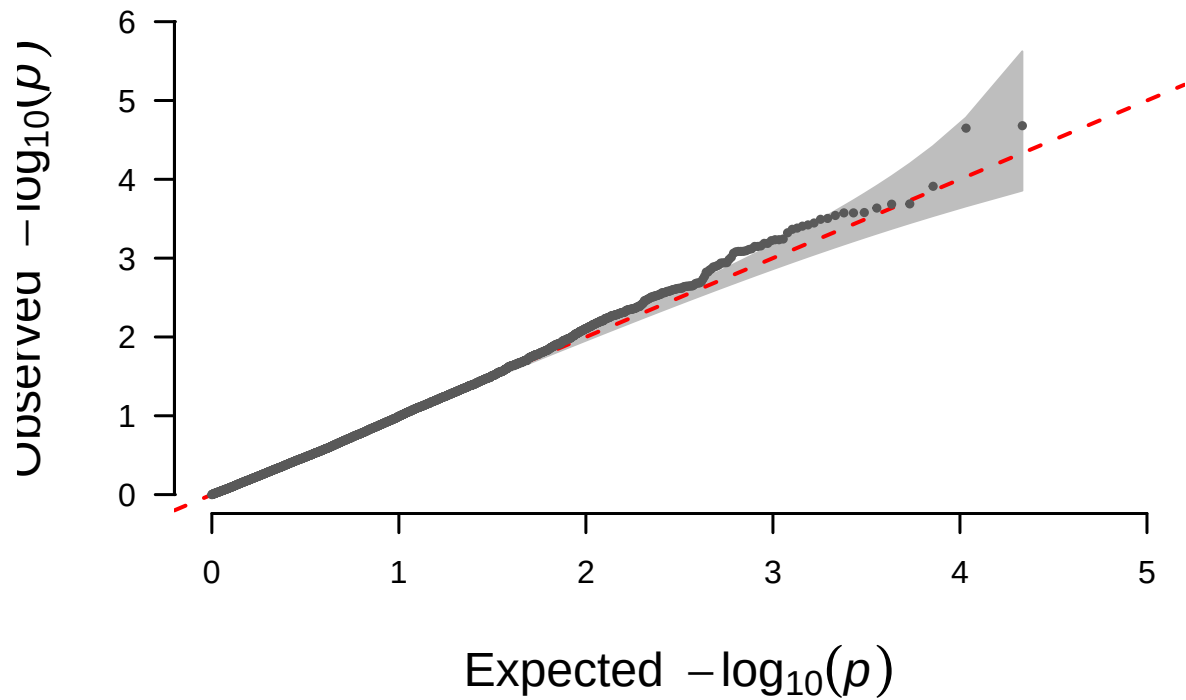
Q-Q plotting BLINK.

BLINK



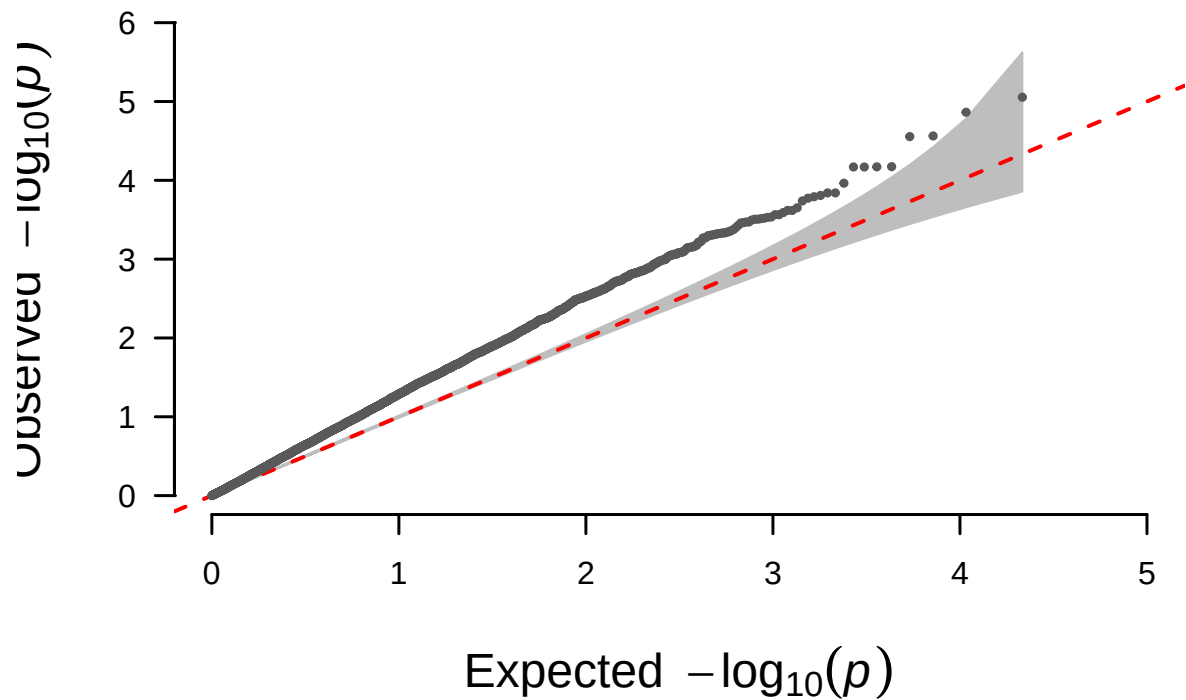
Q-Q plotting FarmCPU.

FarmCPU



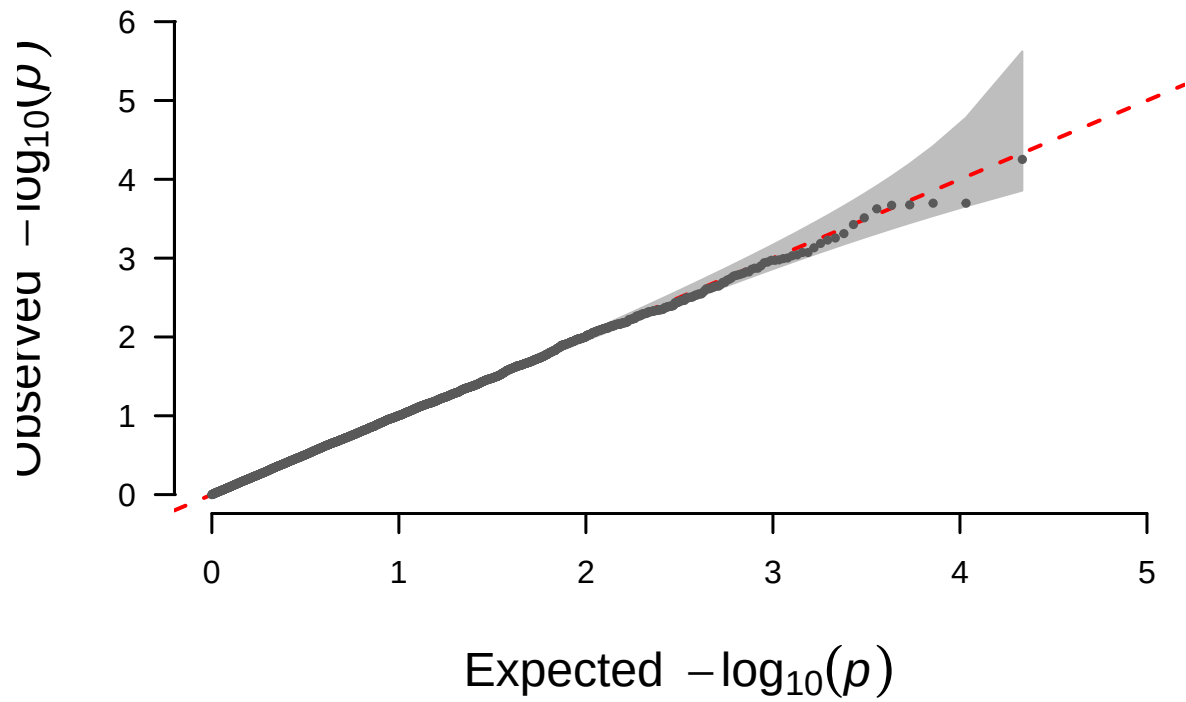
Q-Q plotting GLM.

GLM



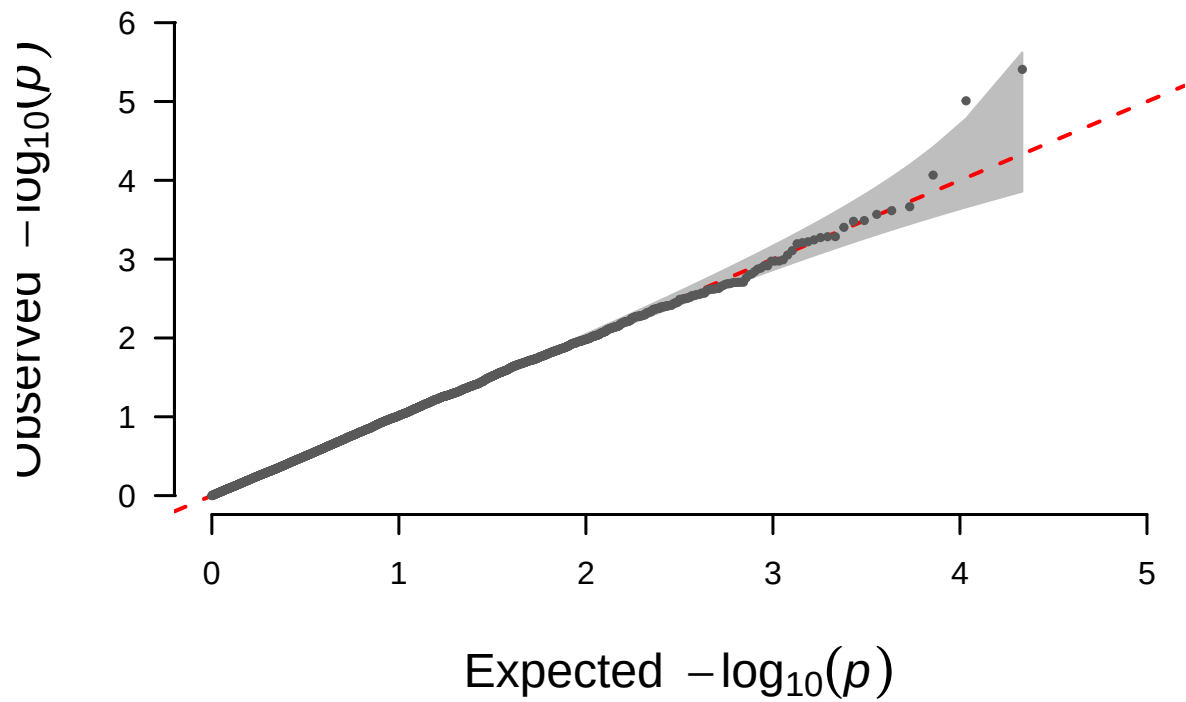
Q-Q plotting MLM.

MLM



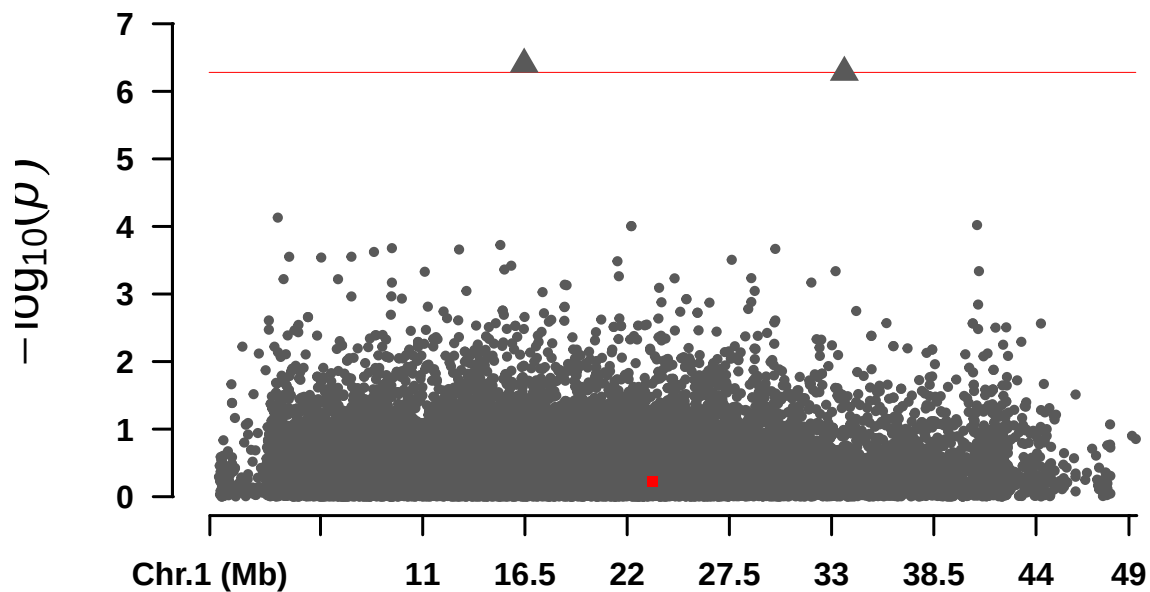
Q-Q plotting MLMM.

MLMM

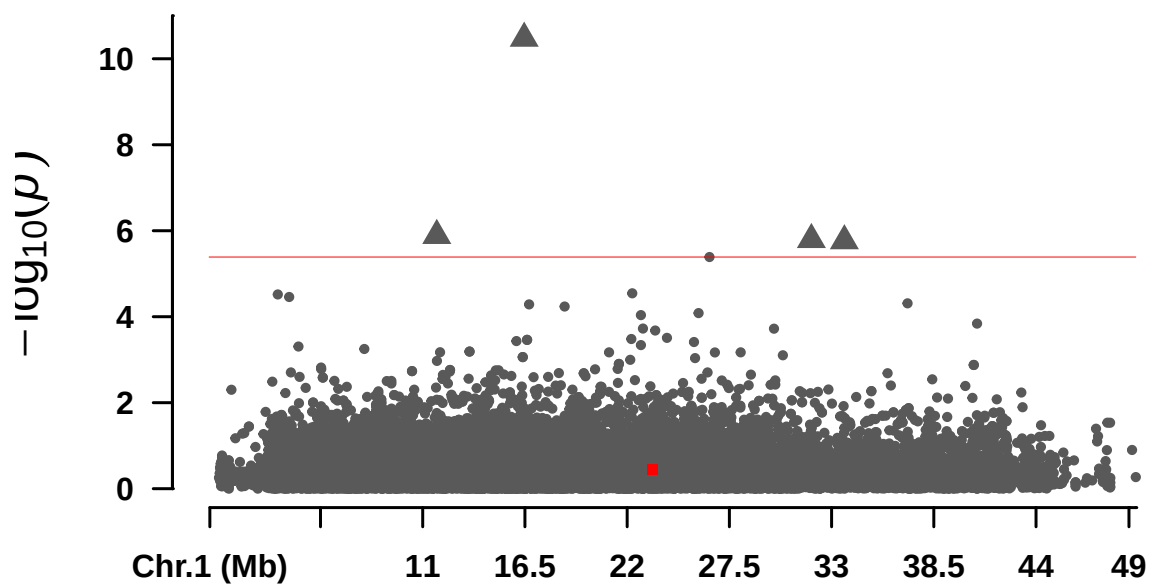


OC

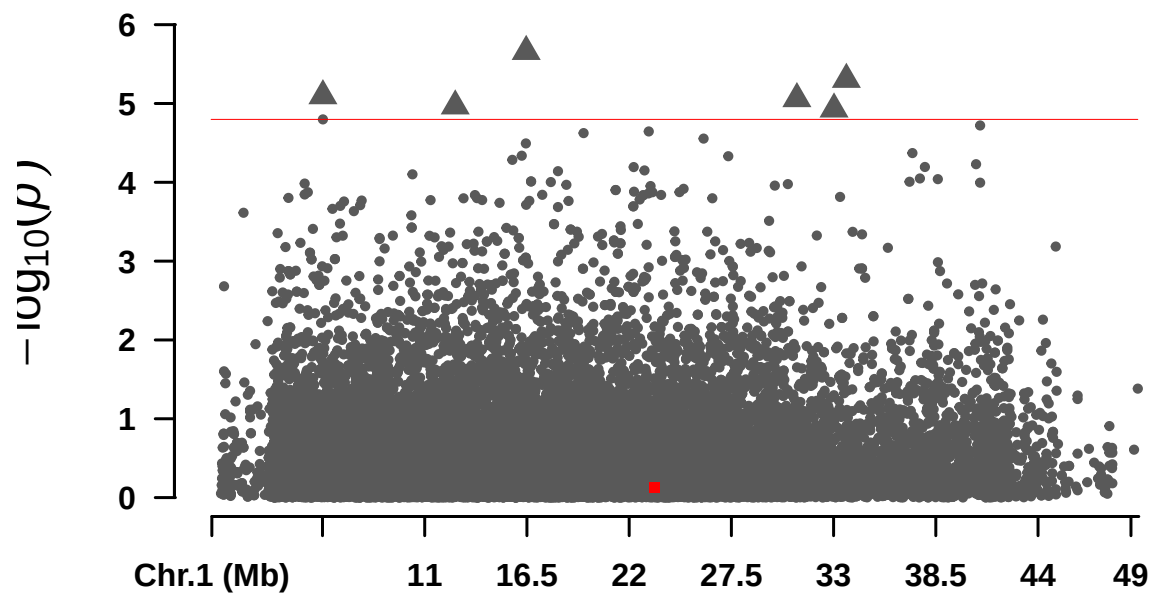
Rectangular Manhattan plotting BLINK.



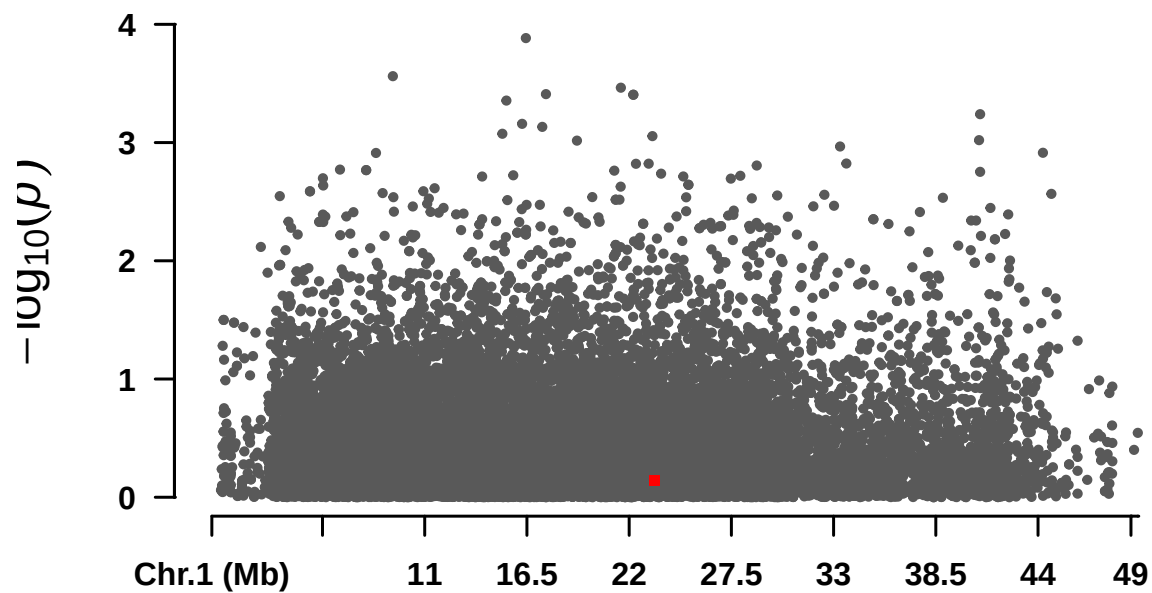
Rectangular Manhattan plotting FarmCPU.



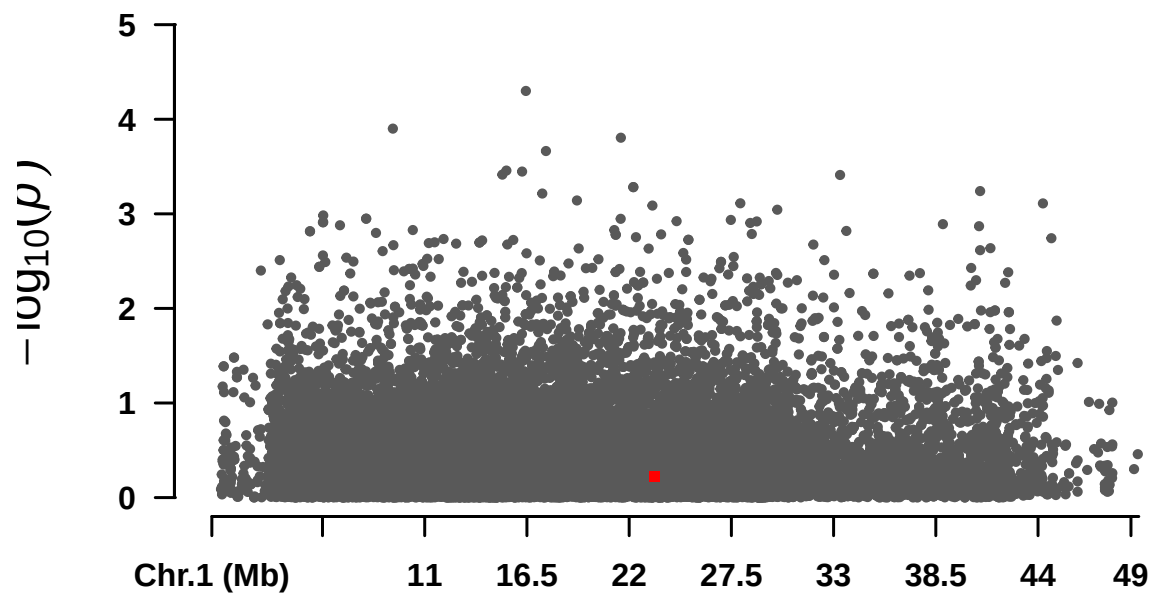
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

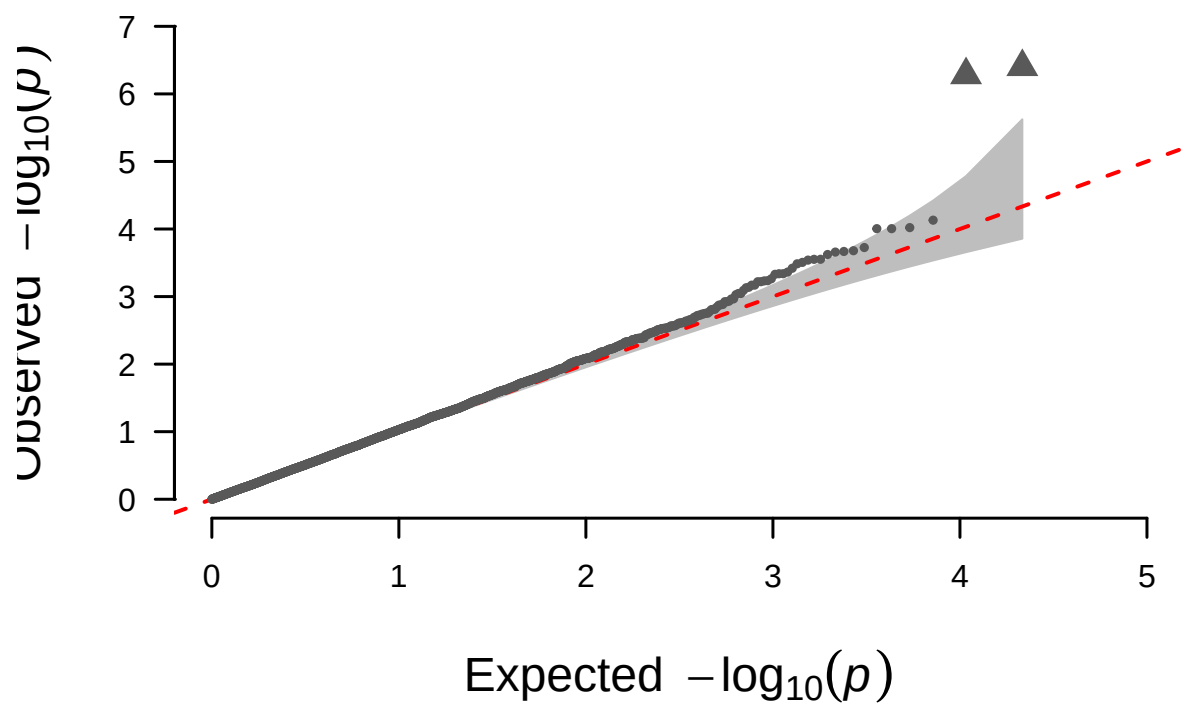


Rectangular Manhattan plotting MLMM.



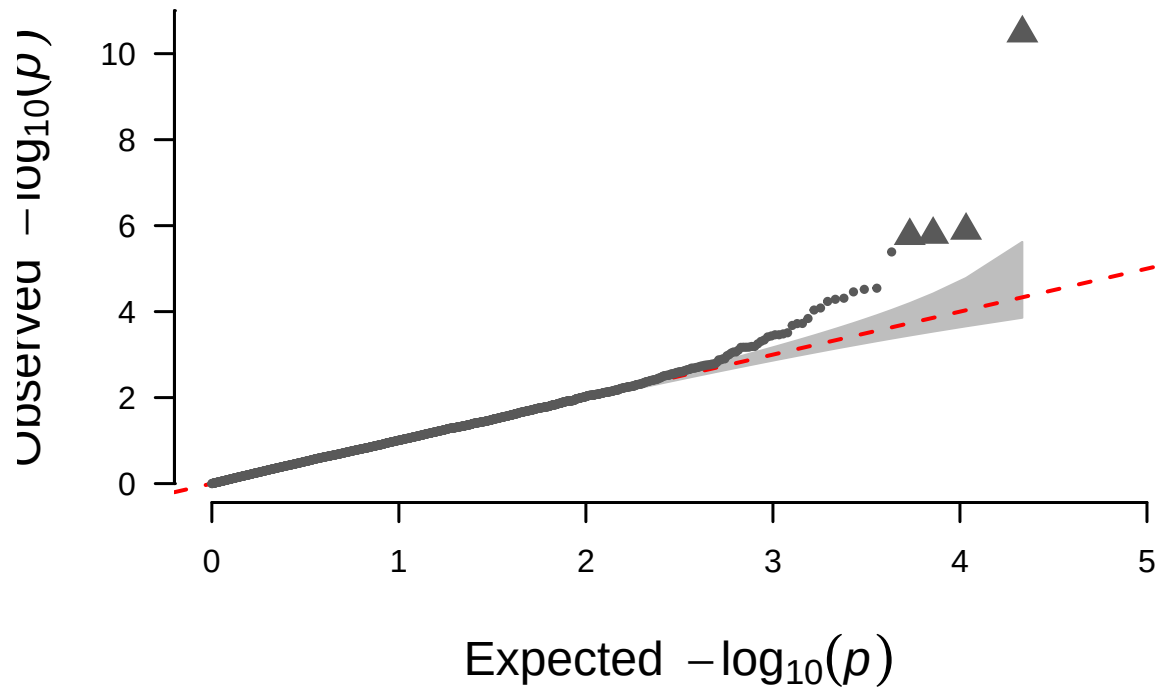
Q-Q plotting BLINK.

BLINK



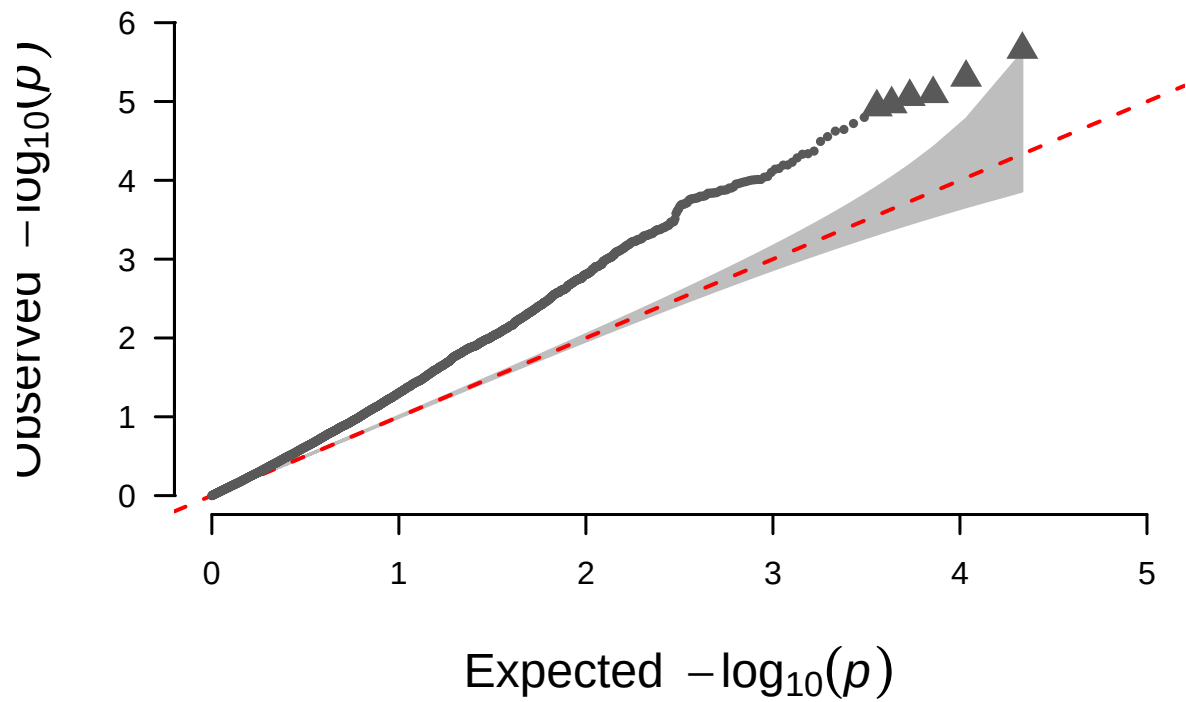
Q-Q plotting FarmCPU.

FarmCPU



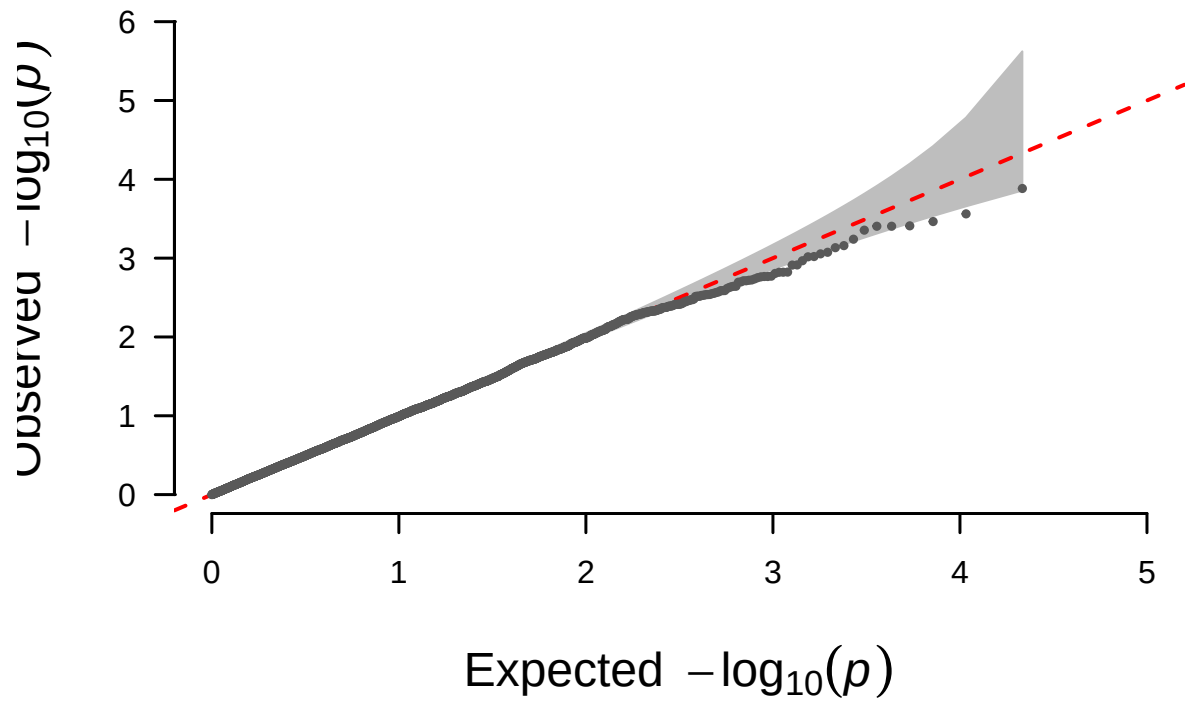
Q-Q plotting GLM.

GLM



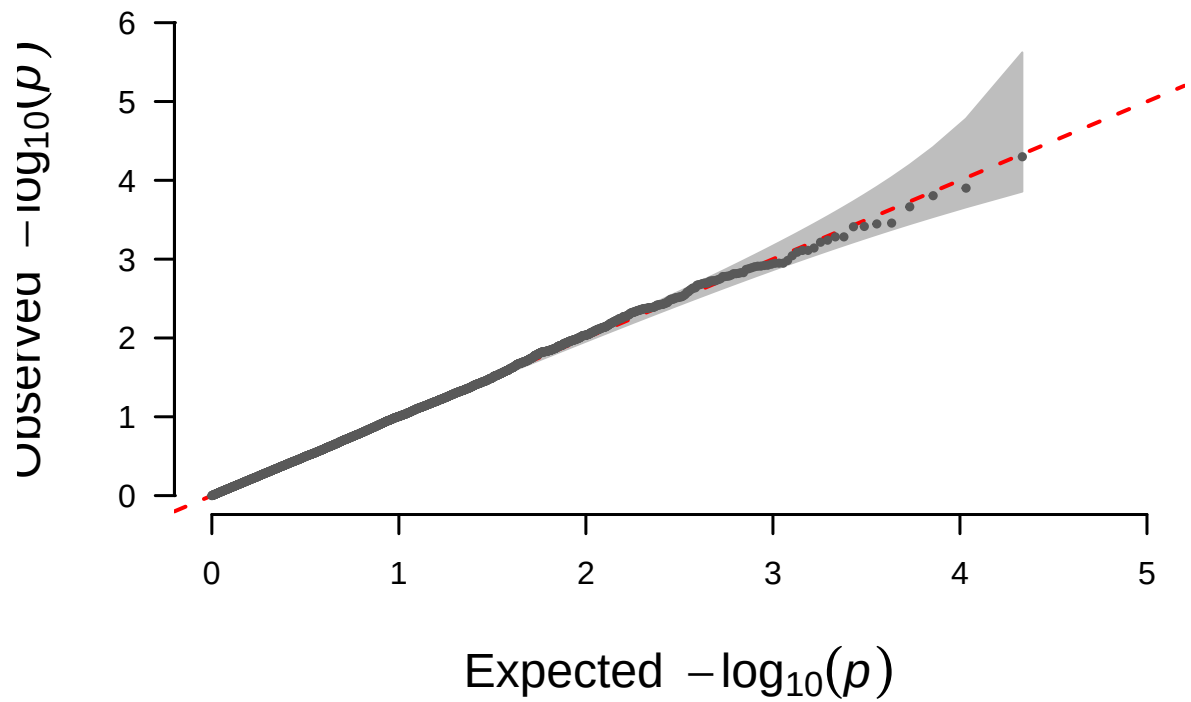
Q-Q plotting MLM.

MLM



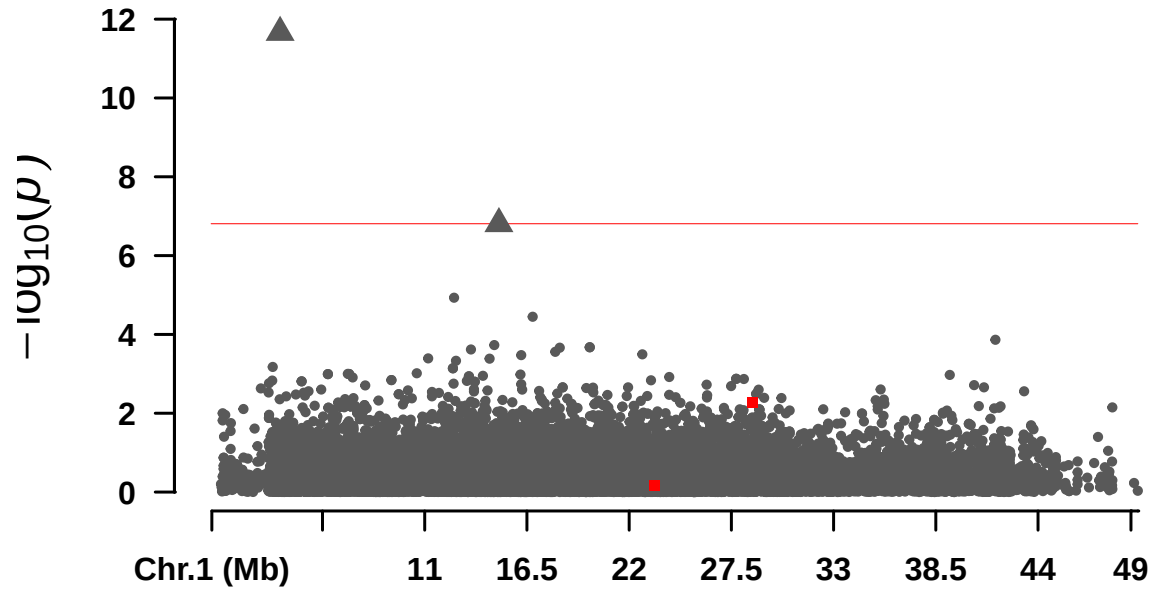
Q-Q plotting MLMM.

MLMM

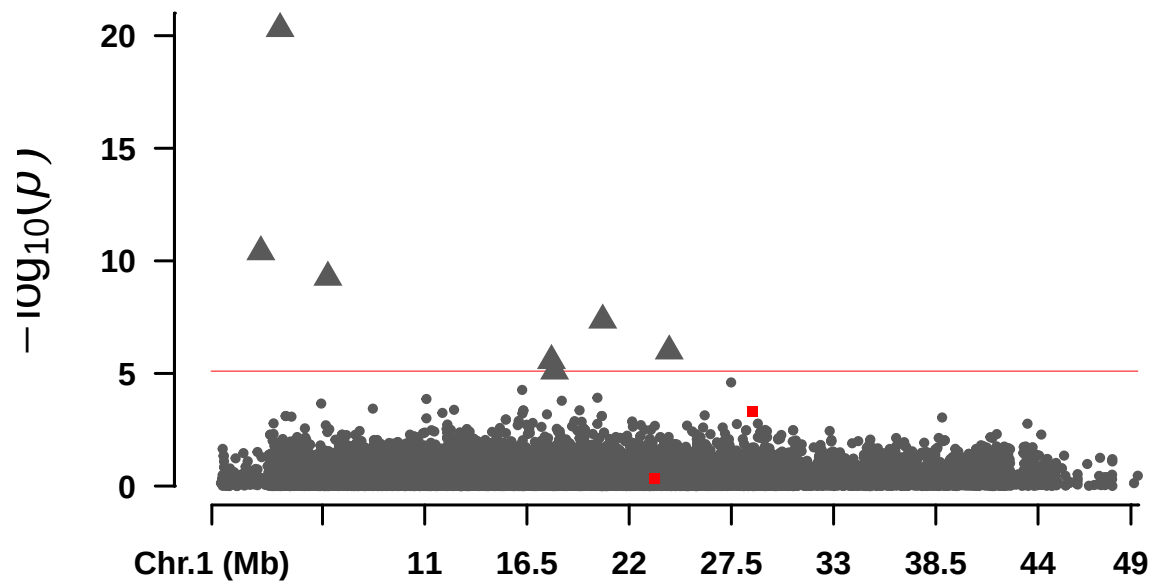


HDM

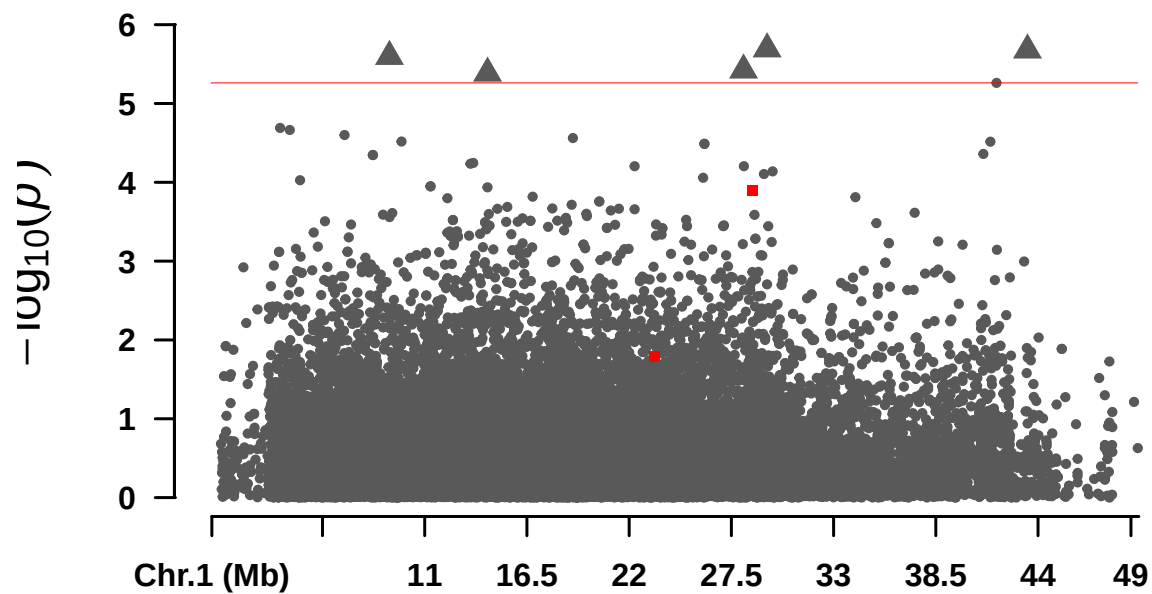
Rectangular Manhattan plotting BLINK.



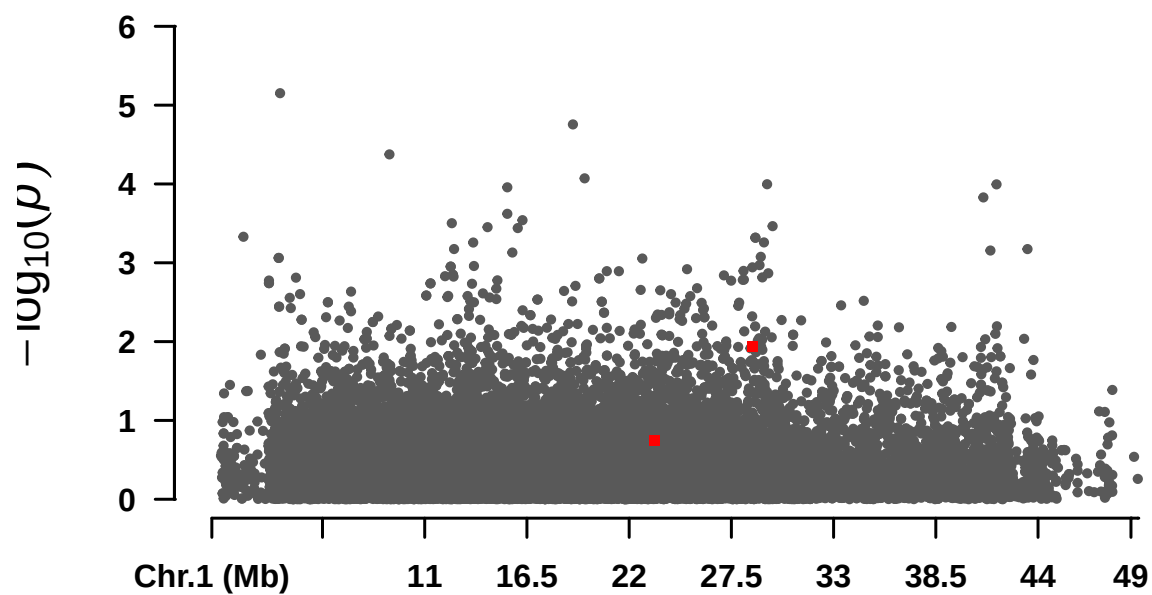
Rectangular Manhattan plotting FarmCPU.



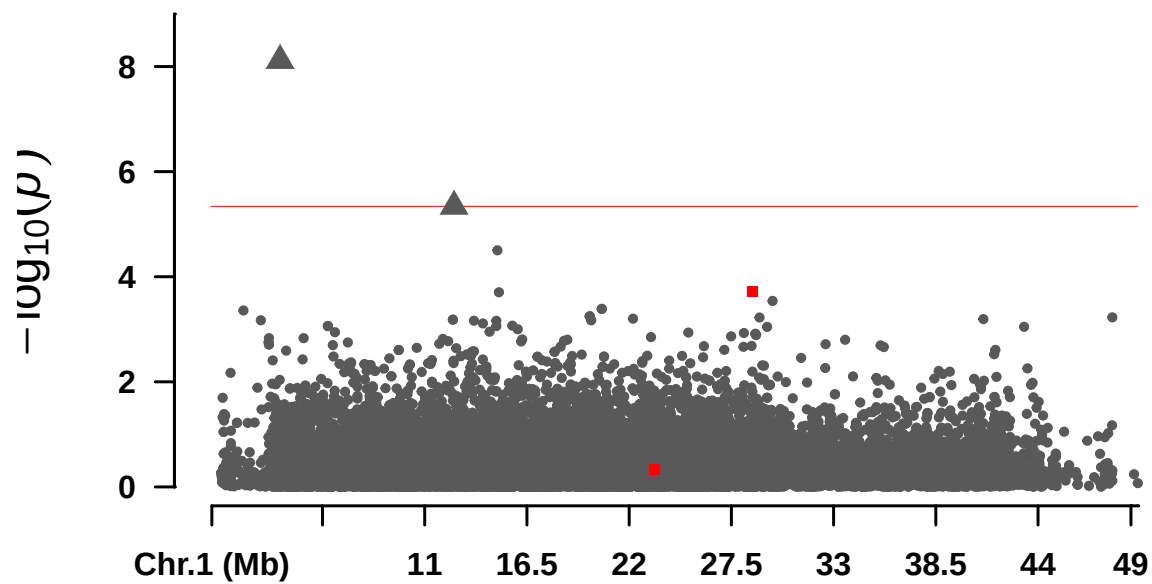
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

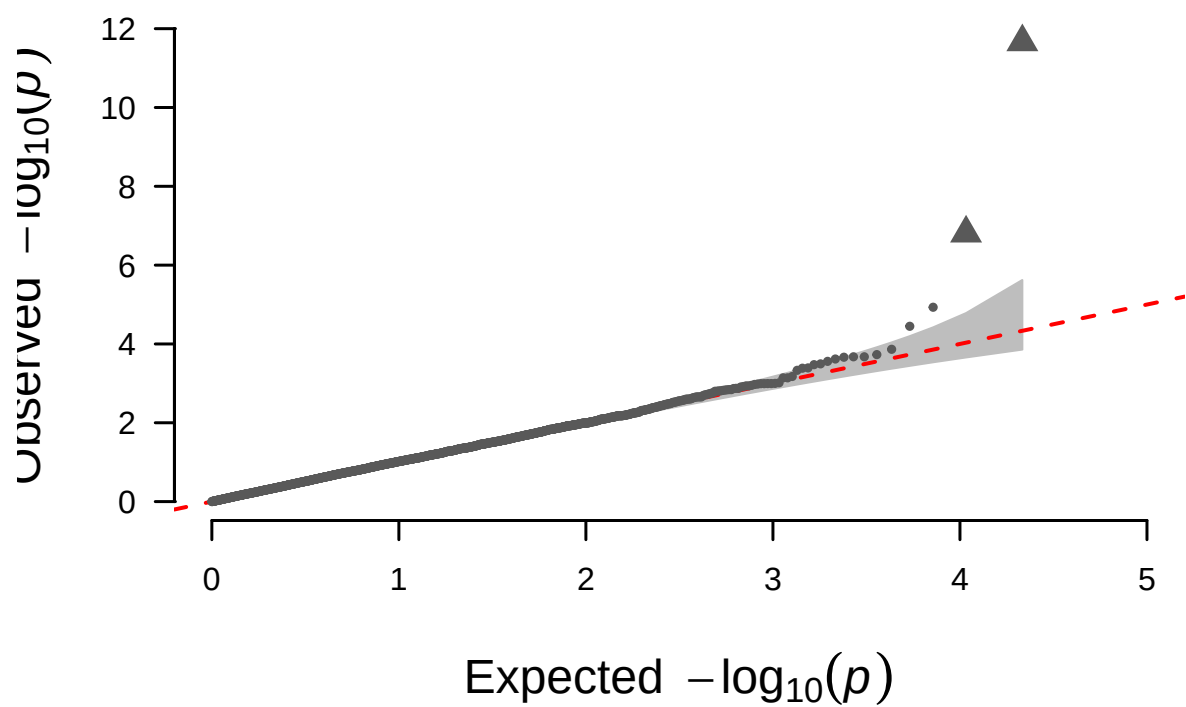


Rectangular Manhattan plotting MLMM.



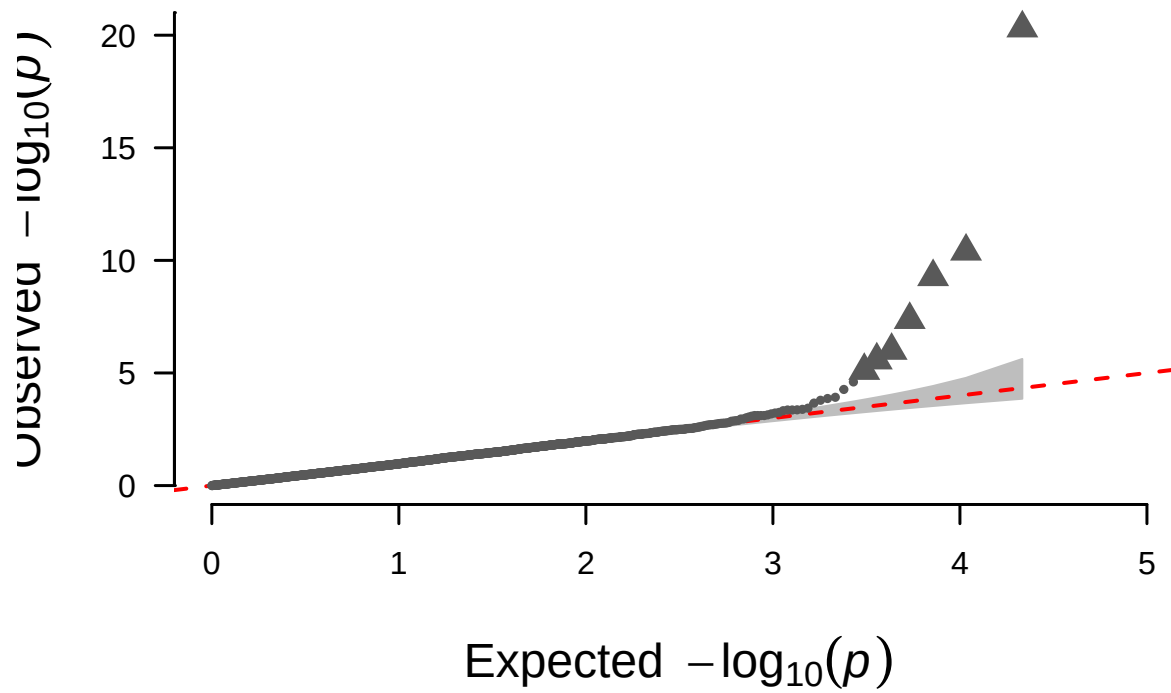
Q-Q plotting BLINK.

BLINK



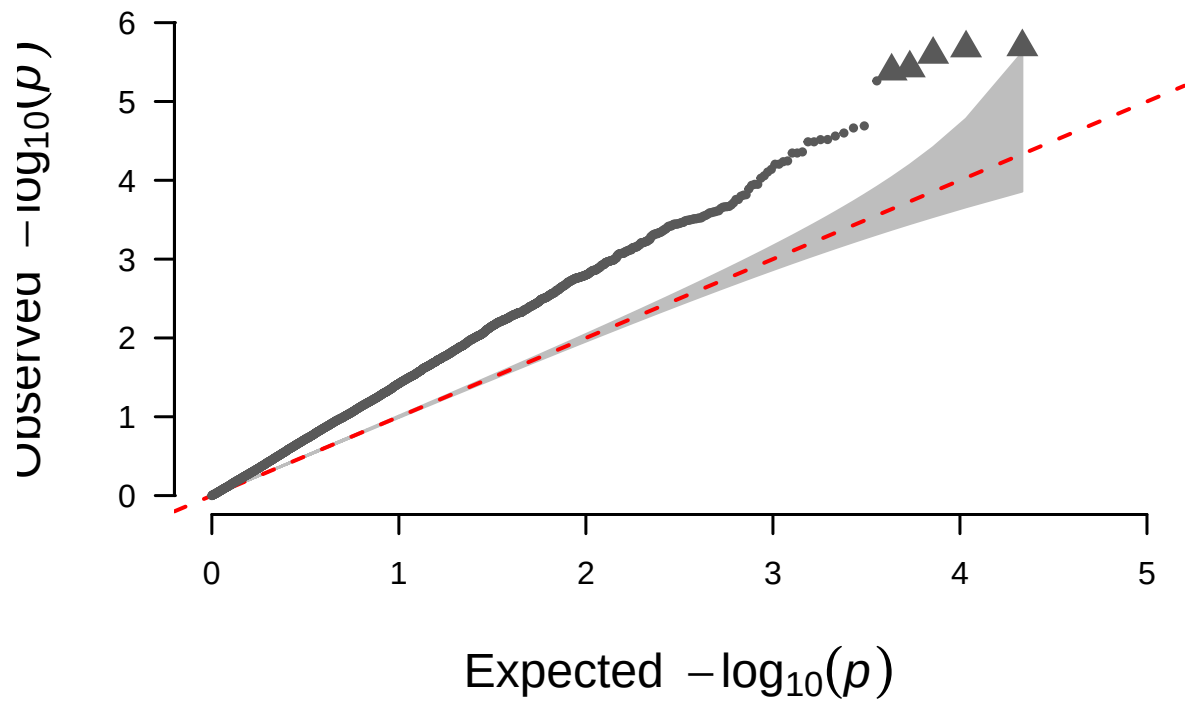
Q-Q plotting FarmCPU.

FarmCPU



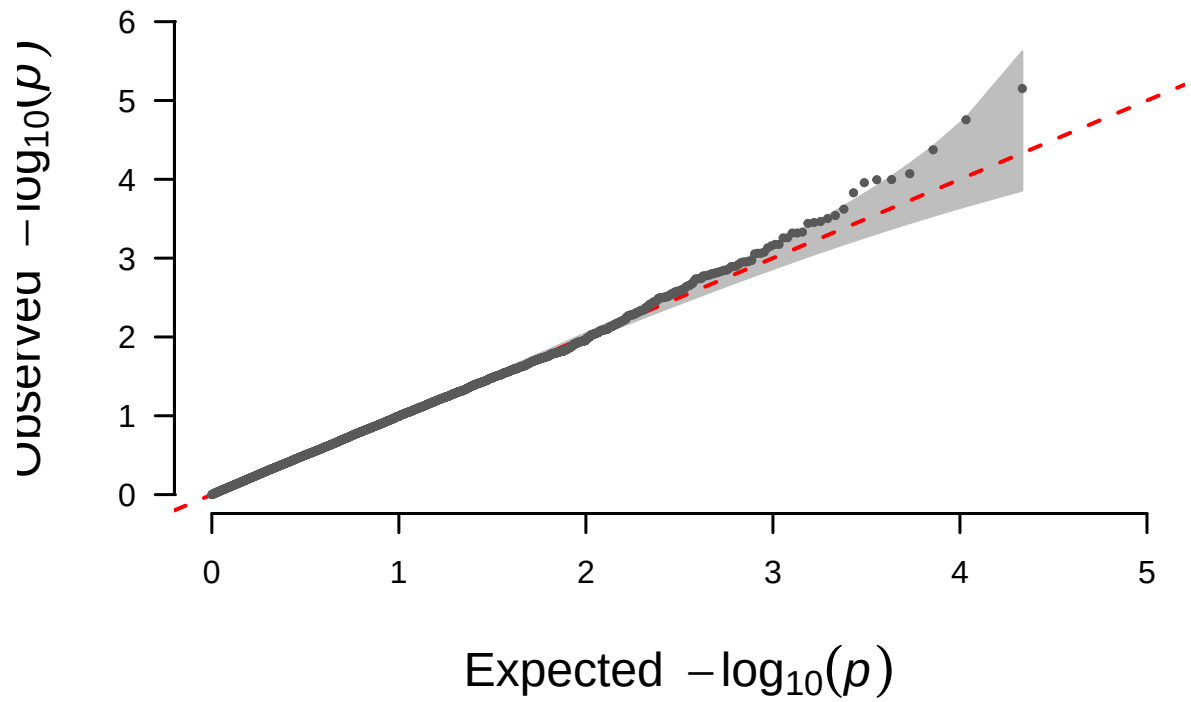
Q-Q plotting GLM.

GLM



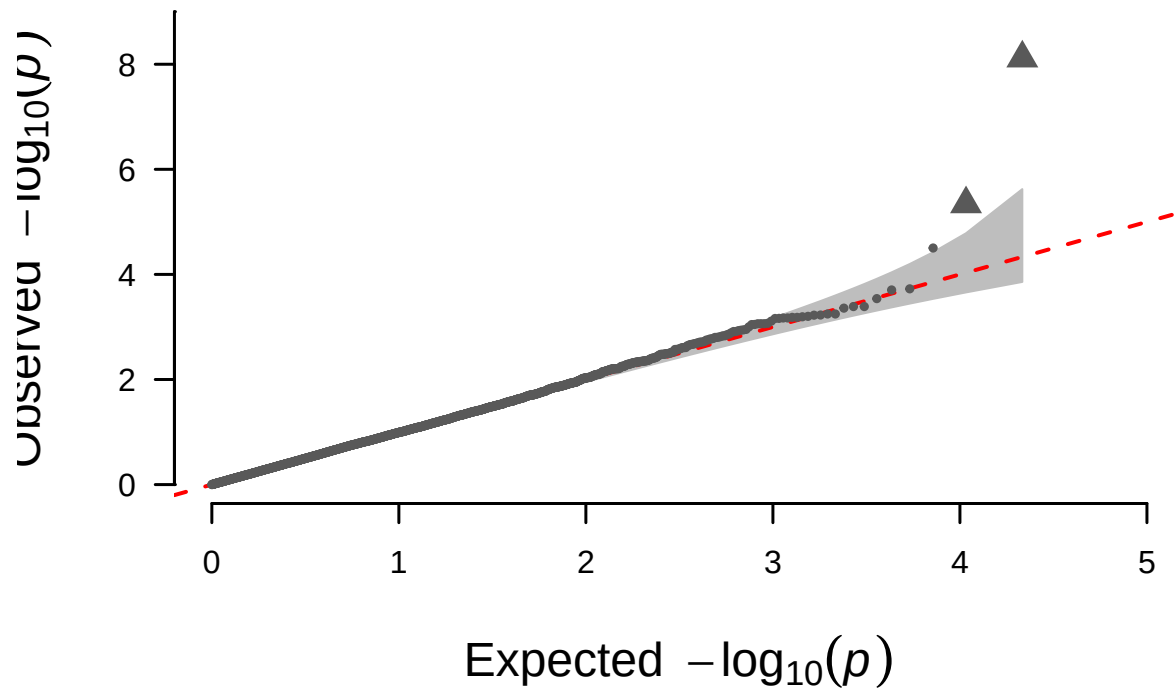
Q-Q plotting MLM.

MLM



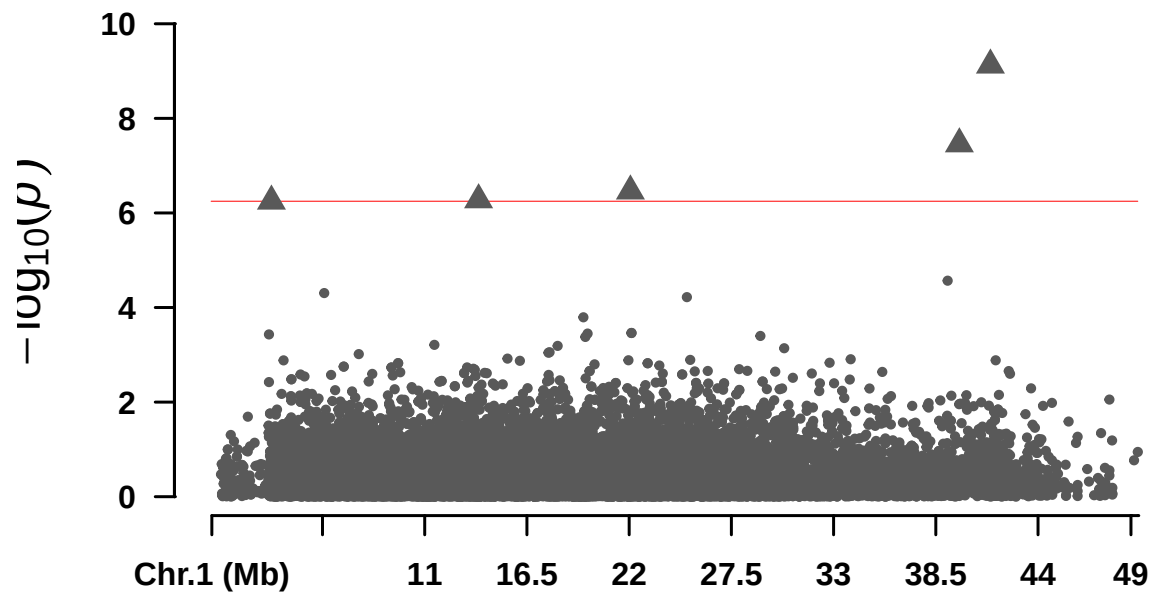
Q-Q plotting MLMM.

MLMM

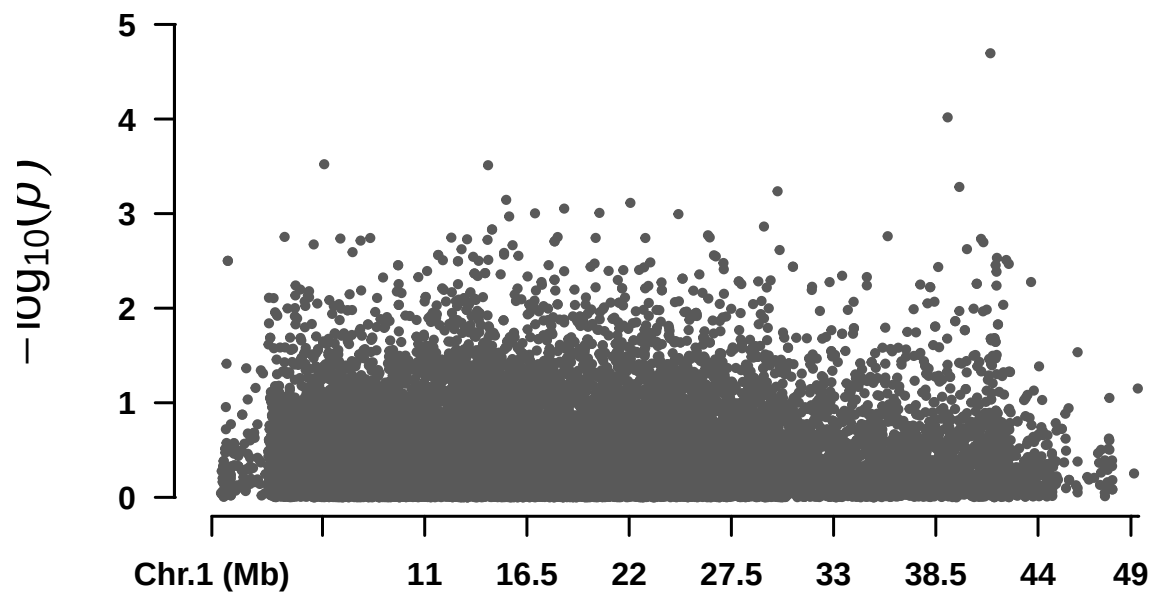


EDM

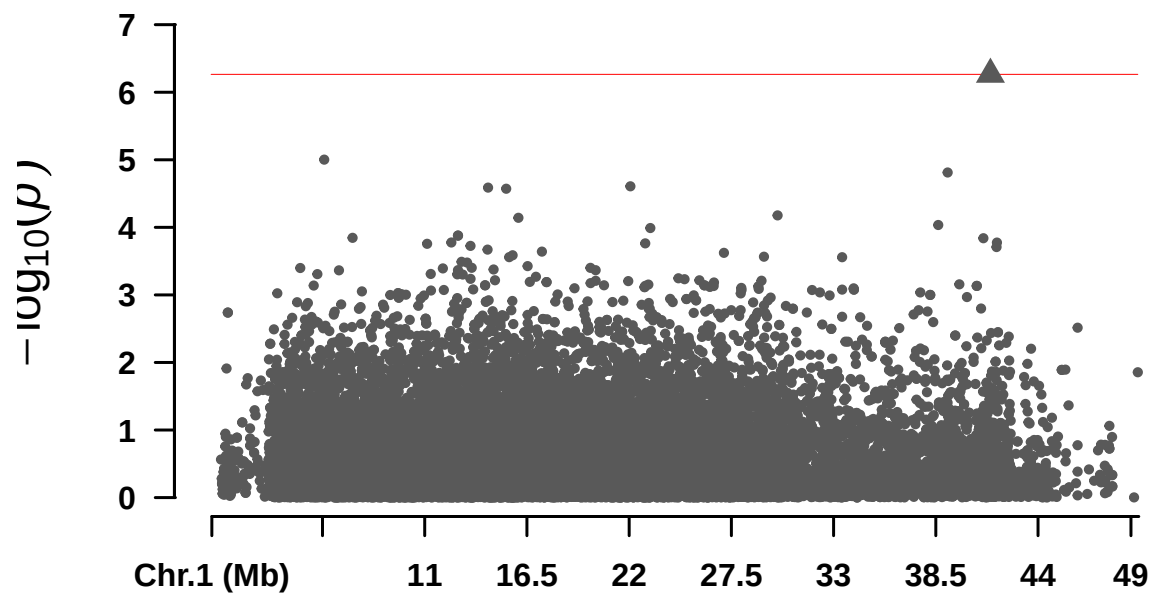
Rectangular Manhattan plotting BLINK.



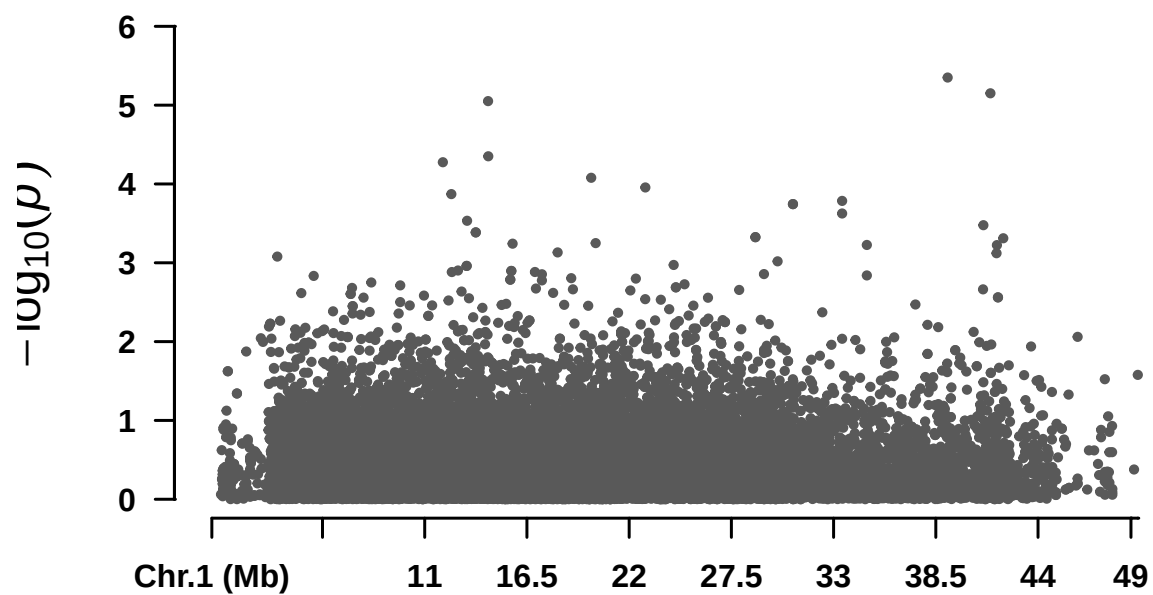
Rectangular Manhattan plotting FarmCPU.



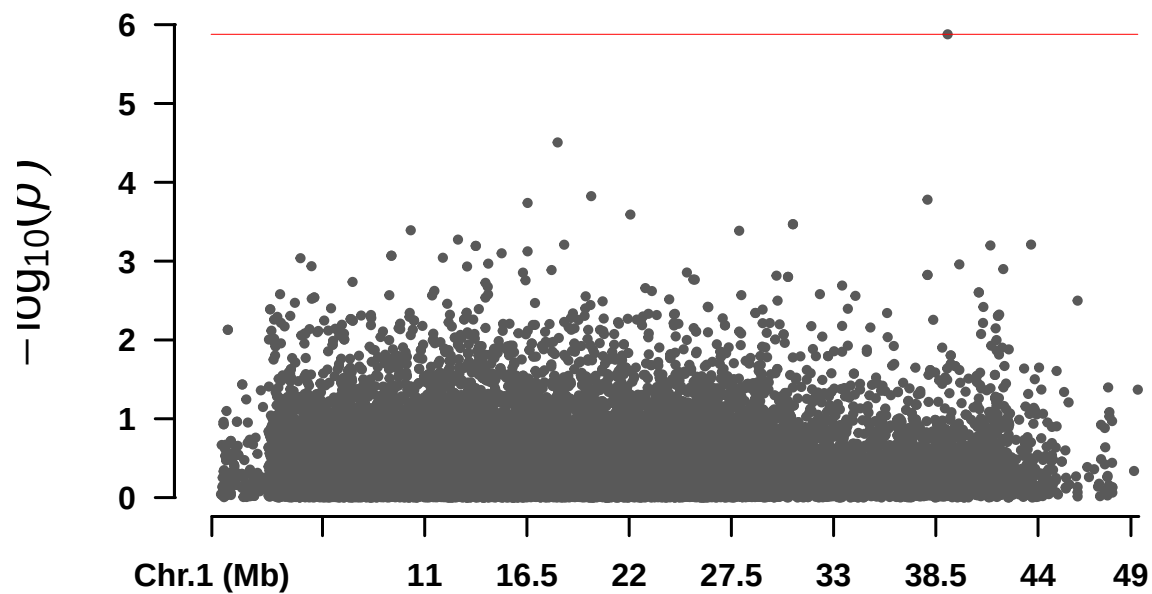
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

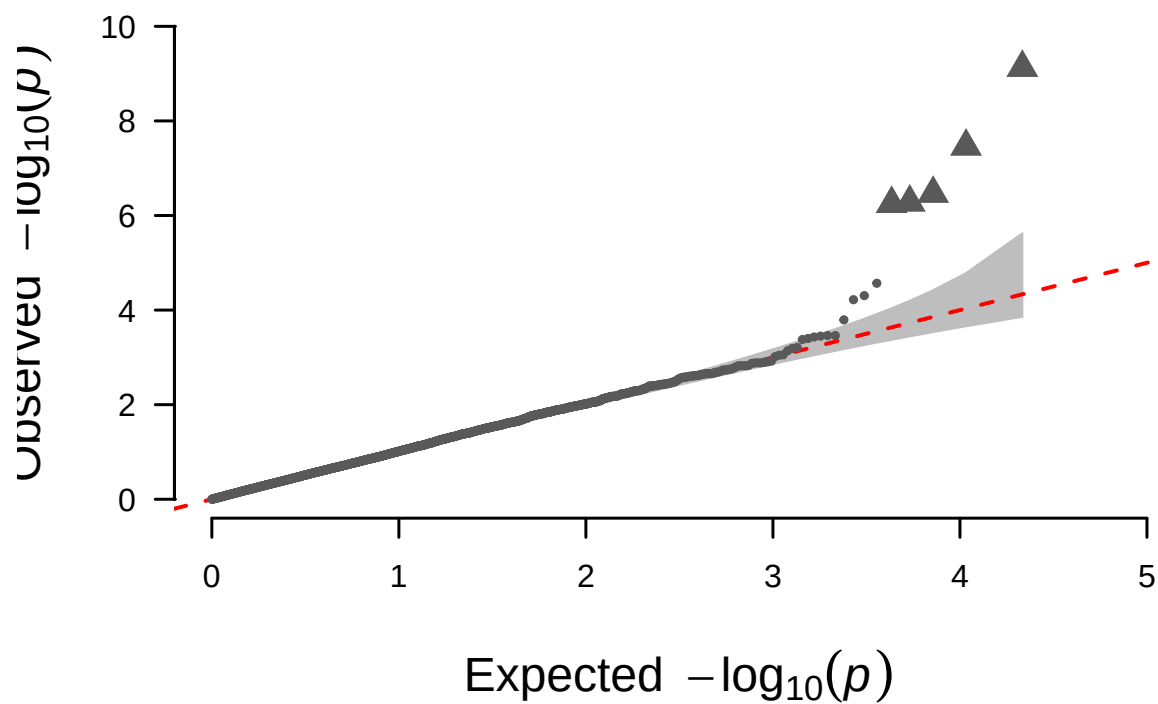


Rectangular Manhattan plotting MLMM.



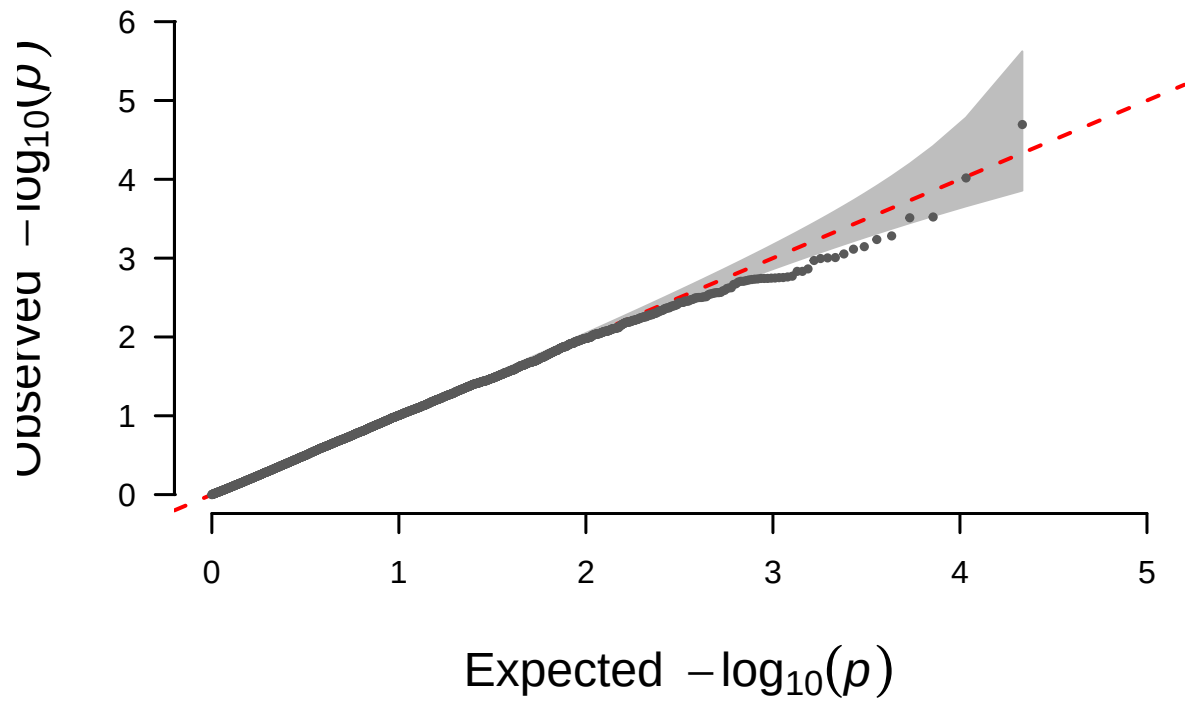
Q-Q plotting BLINK.

BLINK



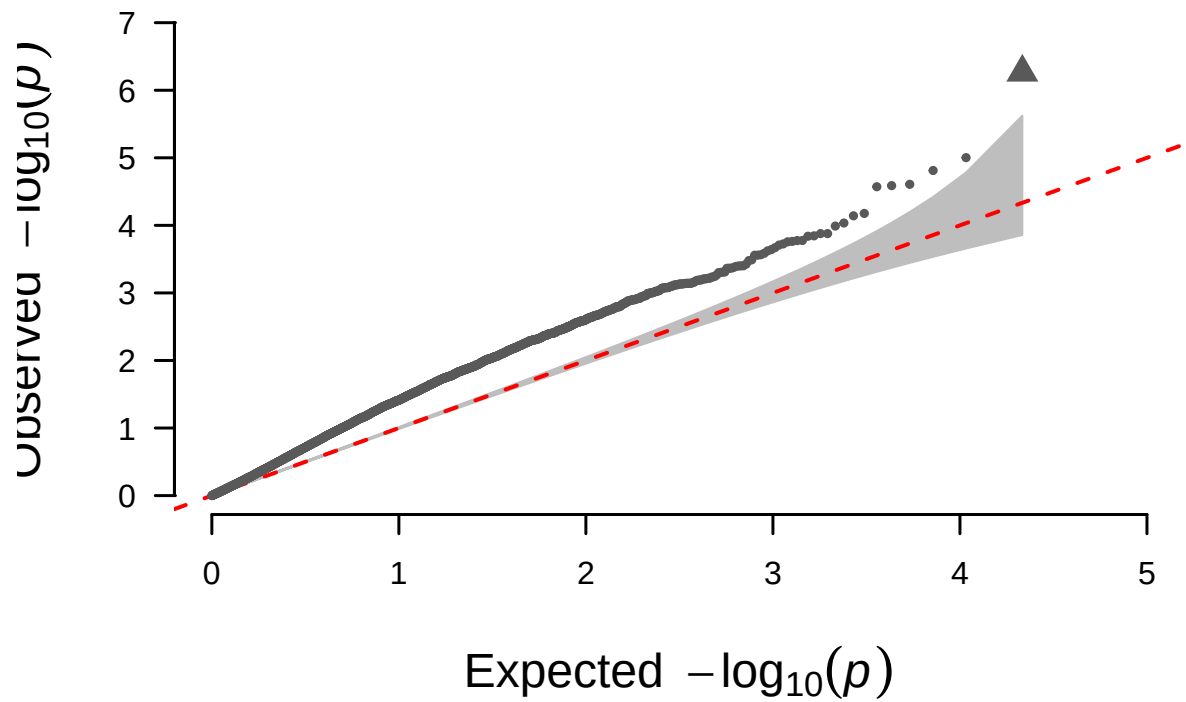
Q-Q plotting FarmCPU.

FarmCPU



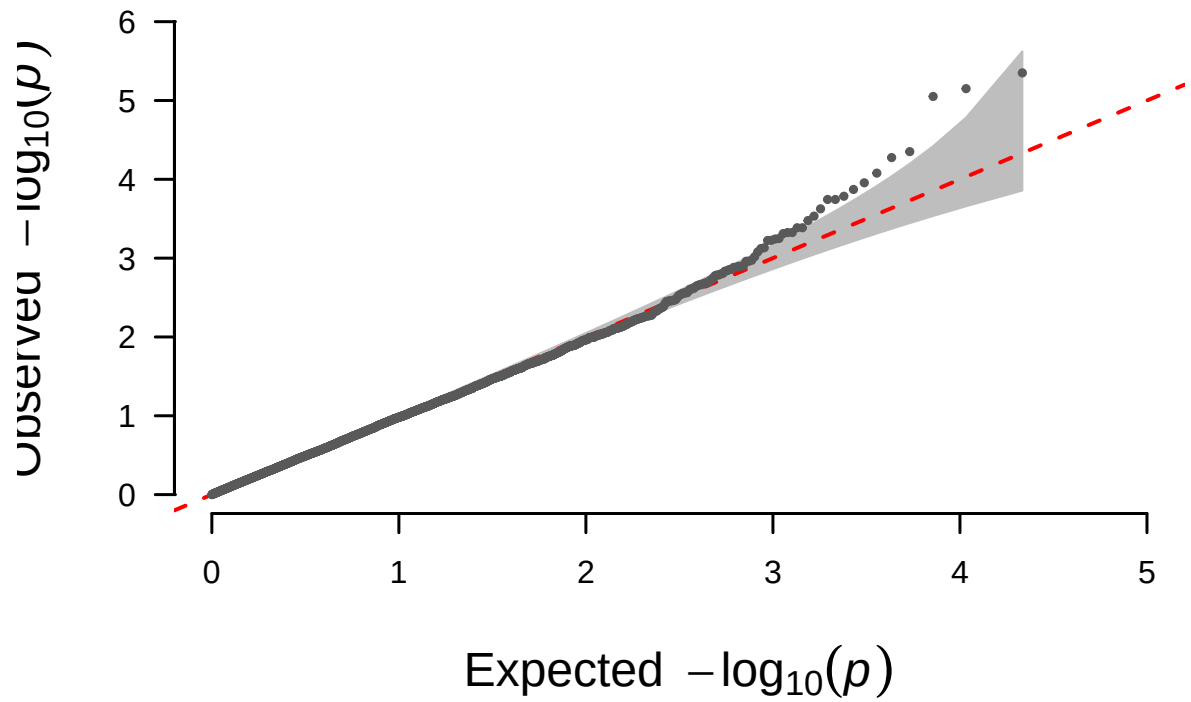
Q-Q plotting GLM.

GLM



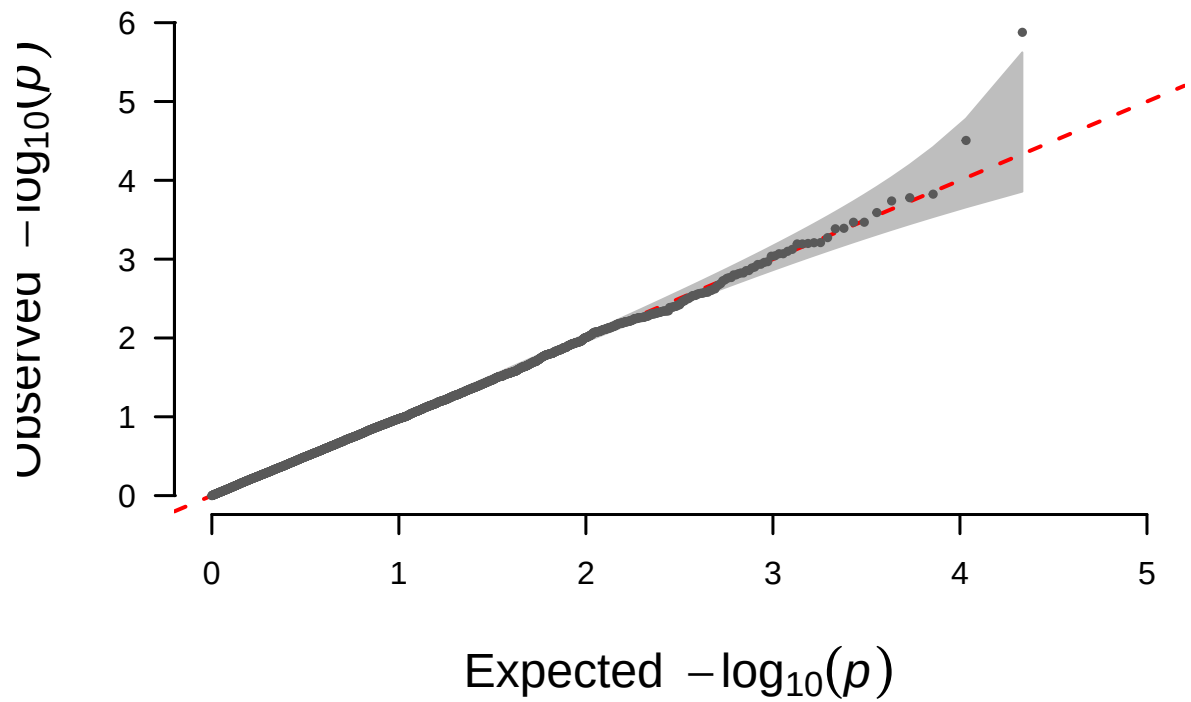
Q-Q plotting MLM.

MLM



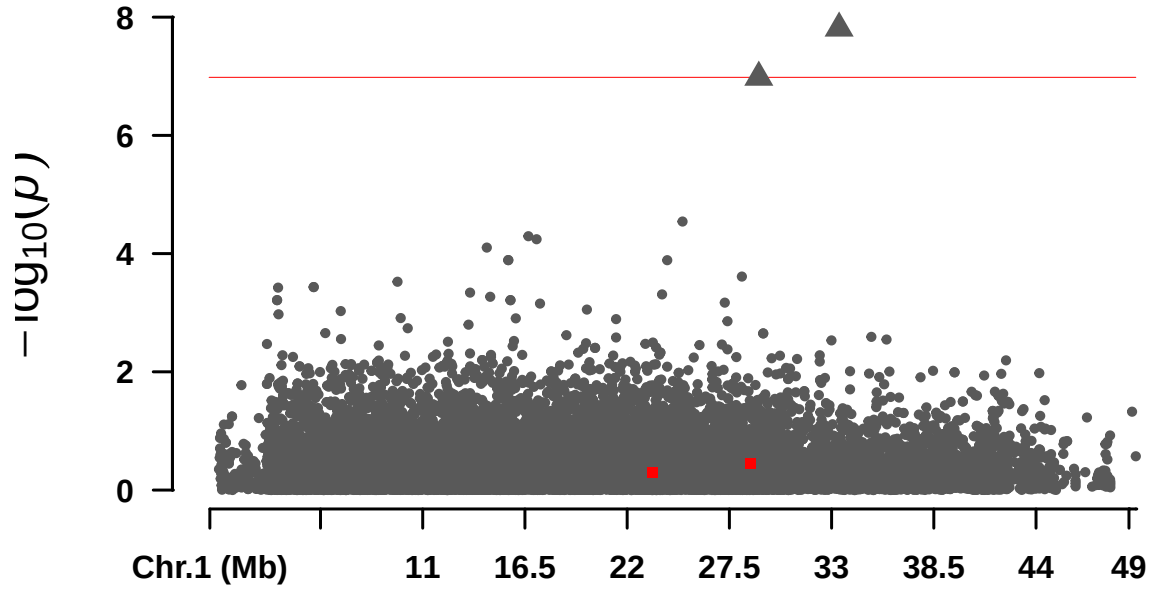
Q-Q plotting MLMM.

MLMM

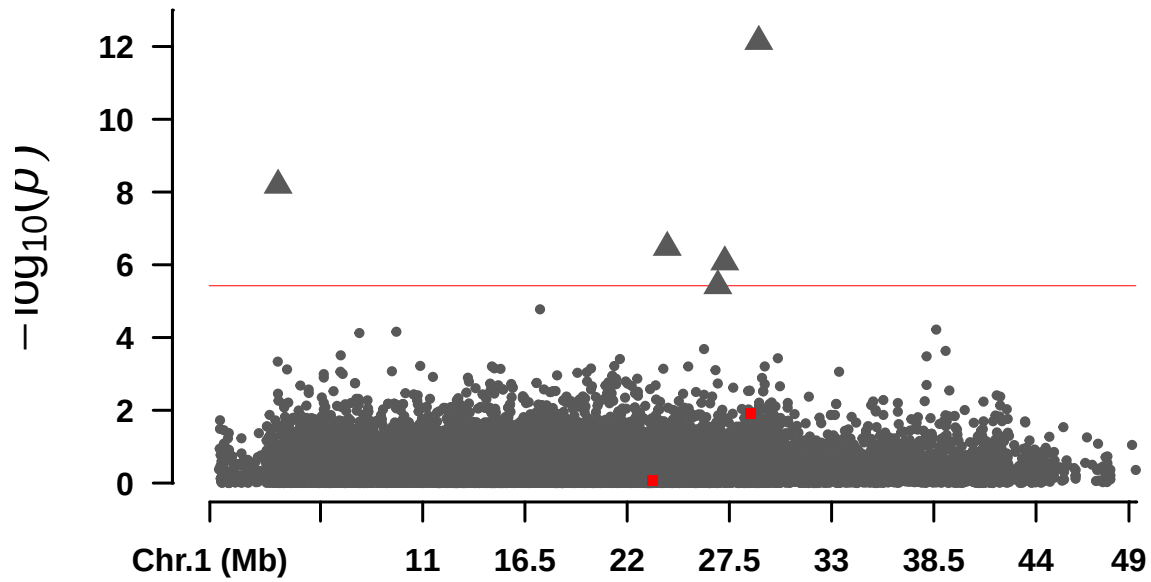


PDM

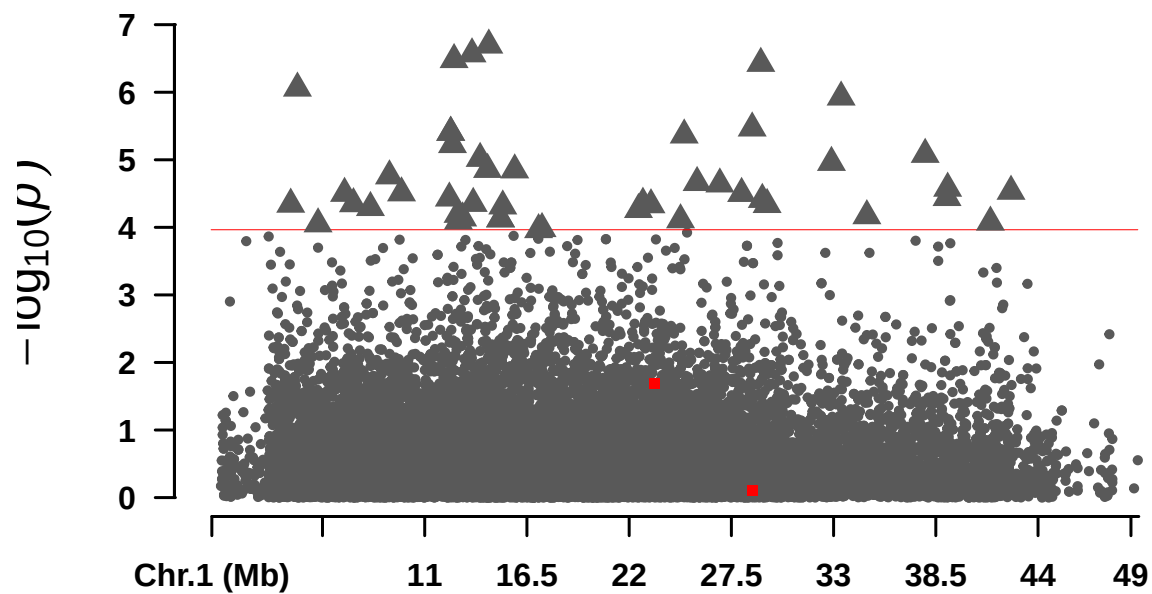
Rectangular Manhattan plotting BLINK.



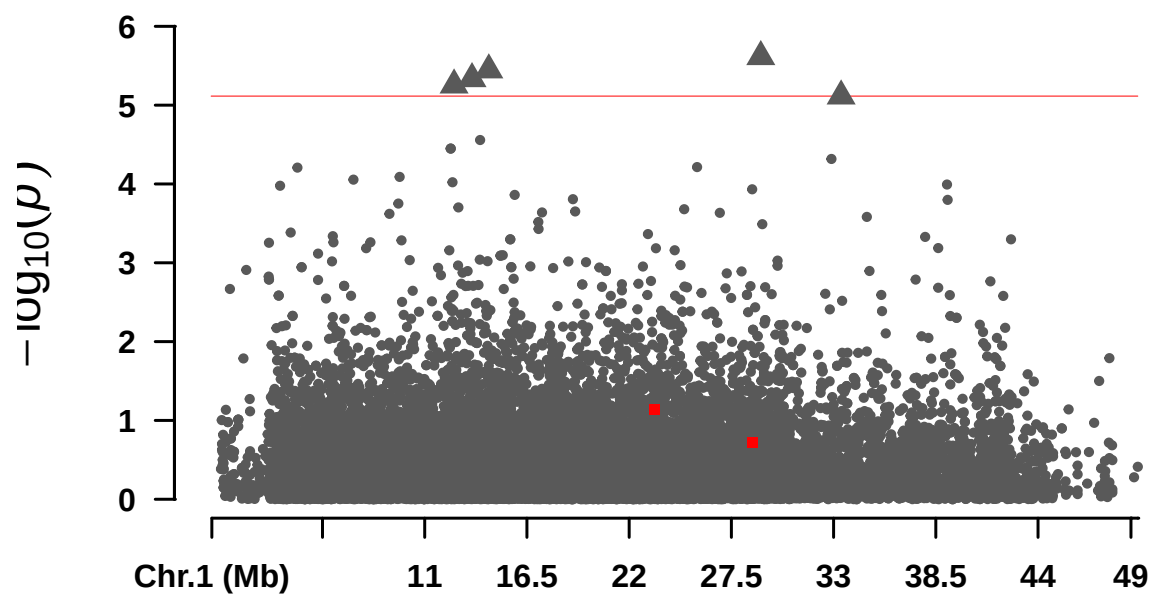
Rectangular Manhattan plotting FarmCPU.



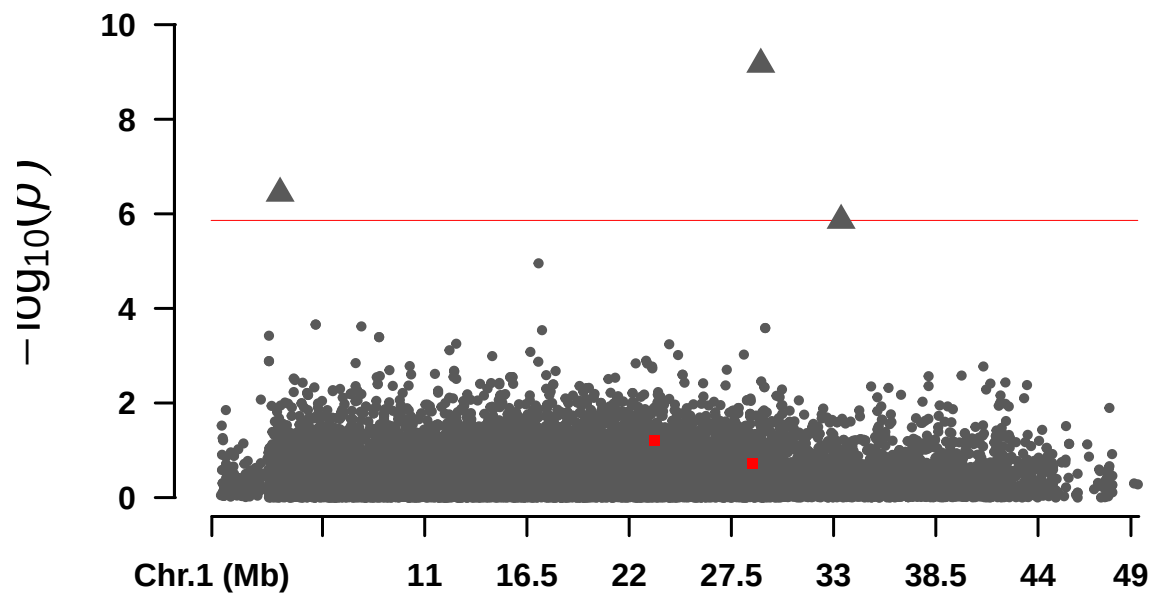
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

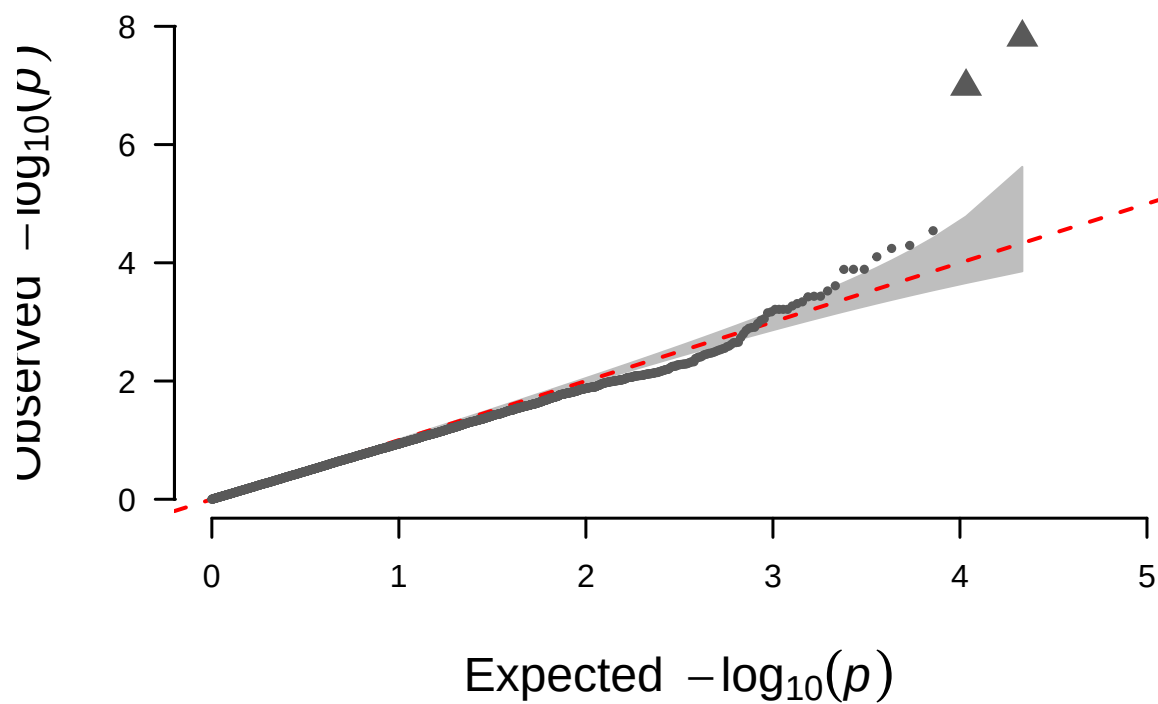


Rectangular Manhattan plotting MLMM.



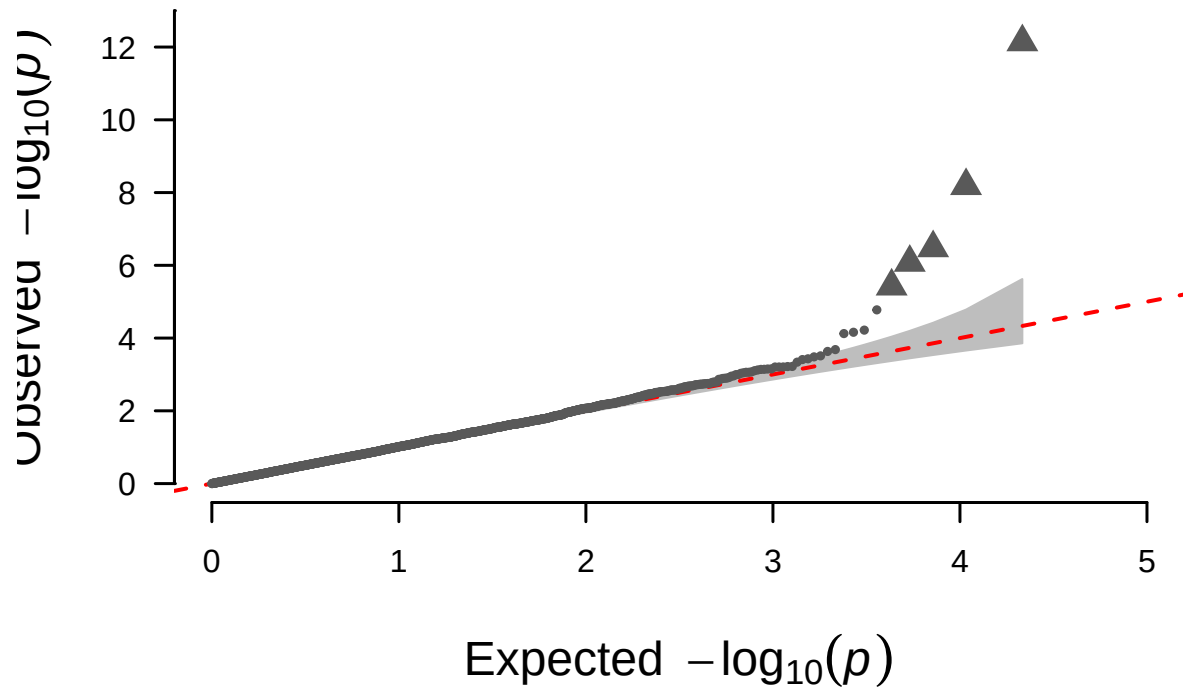
Q-Q plotting BLINK.

BLINK



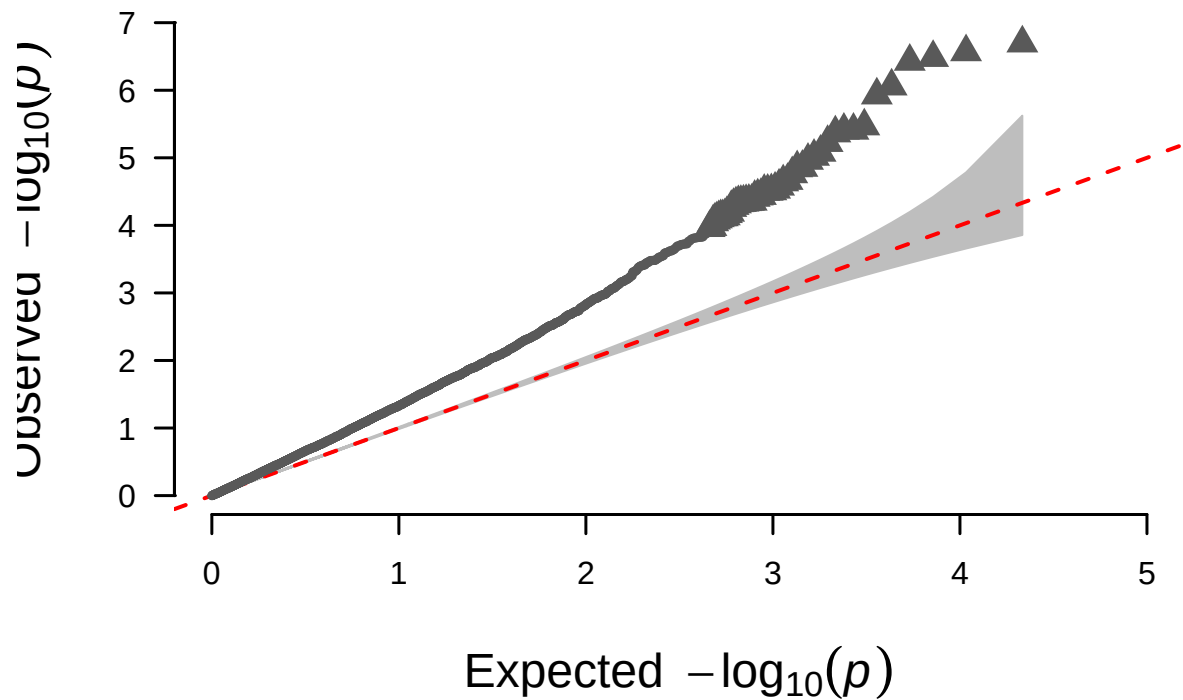
Q-Q plotting FarmCPU.

FarmCPU



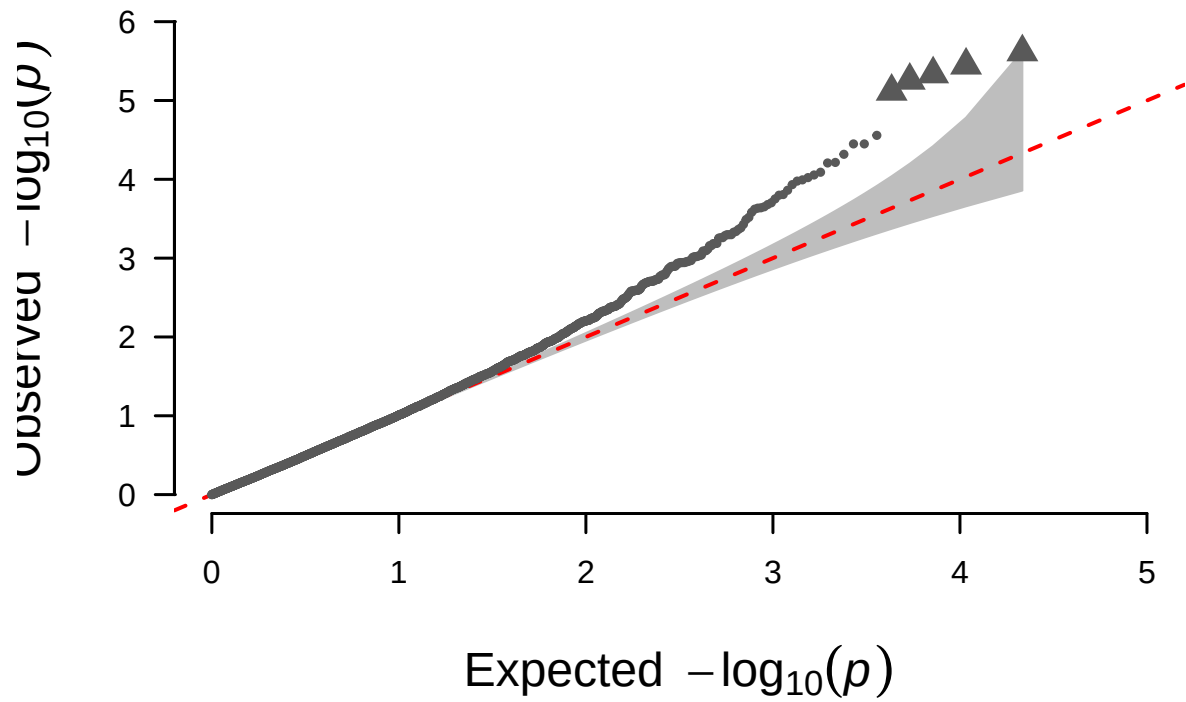
Q-Q plotting GLM.

GLM



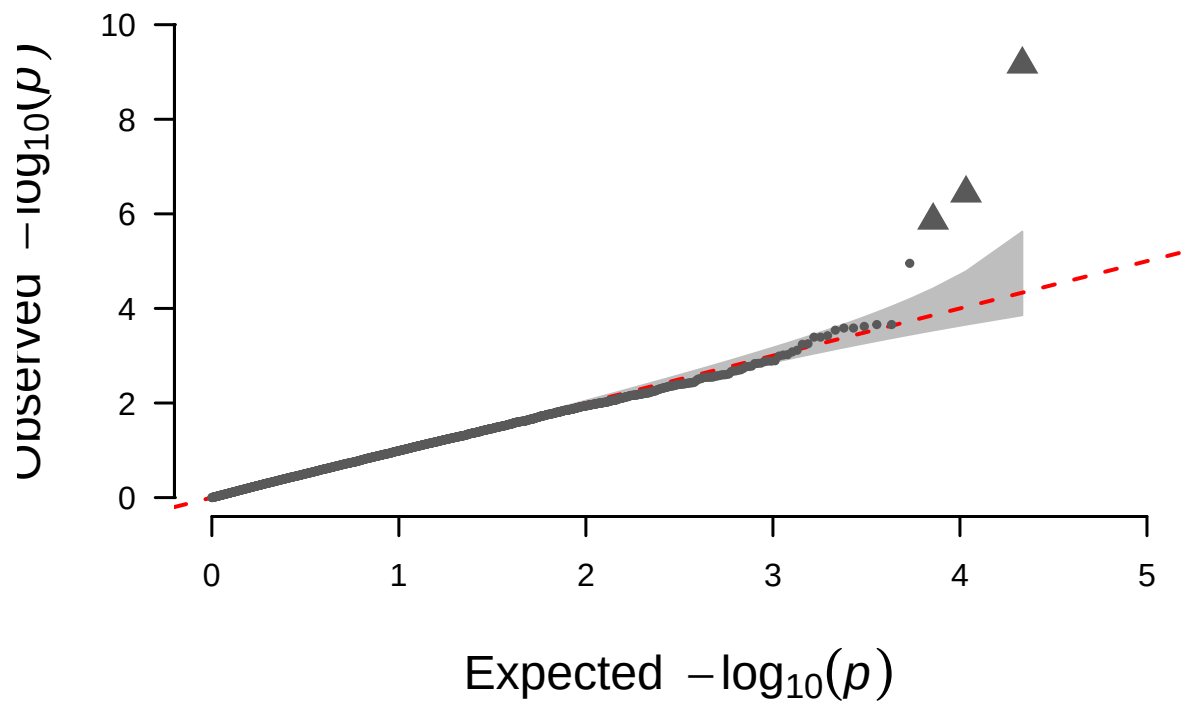
Q-Q plotting MLM.

MLM



Q-Q plotting MLM.

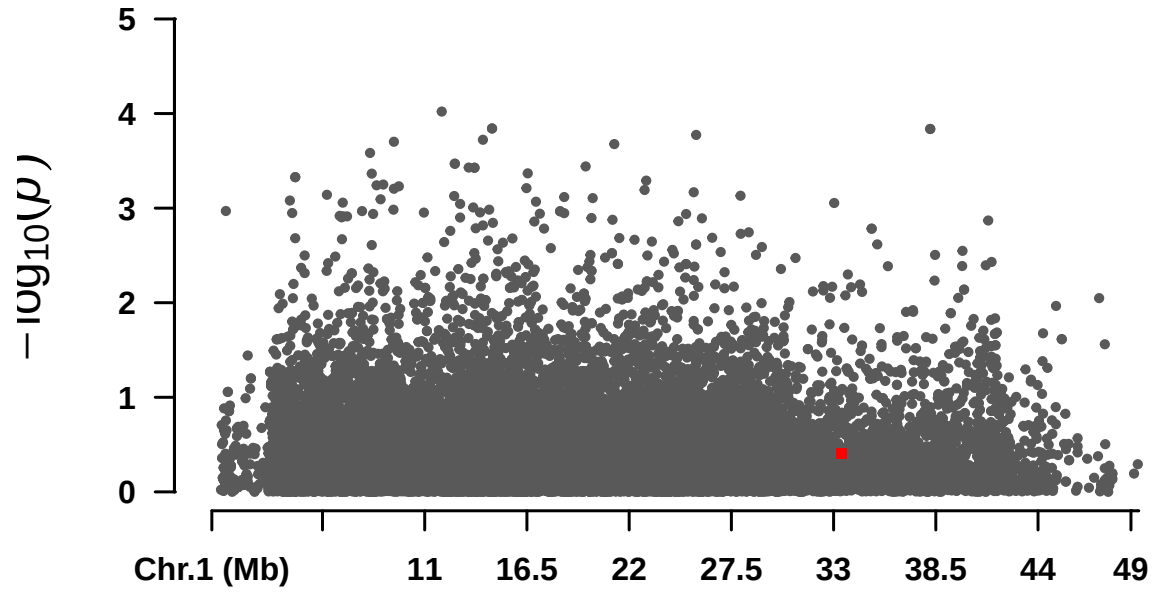
MLMM



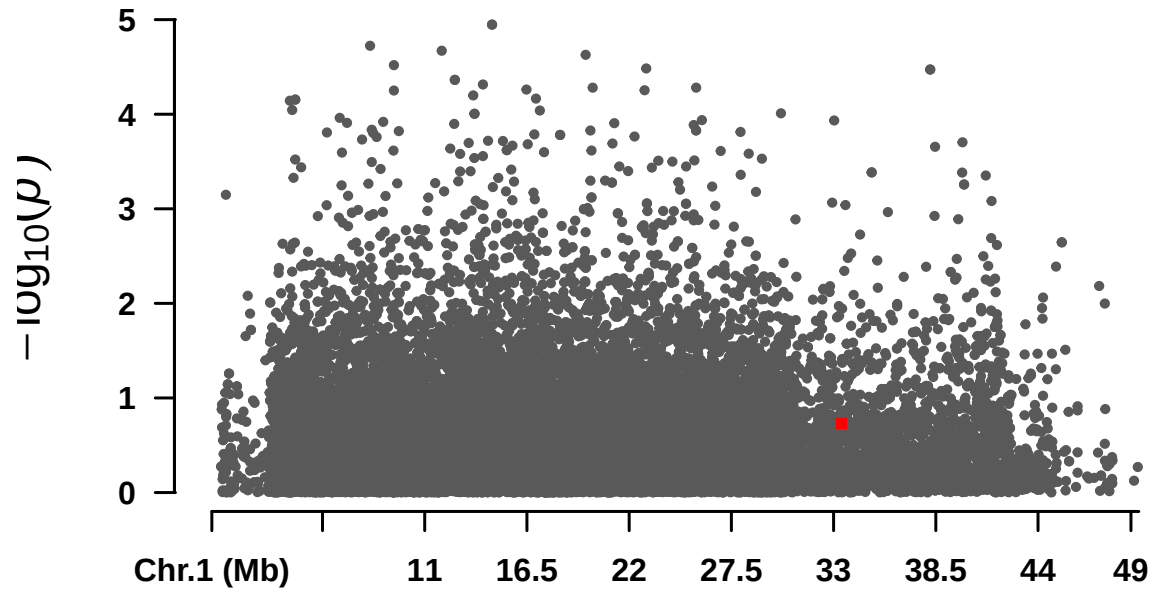
KDM

Rectangular Manhattan plotting BLINK.

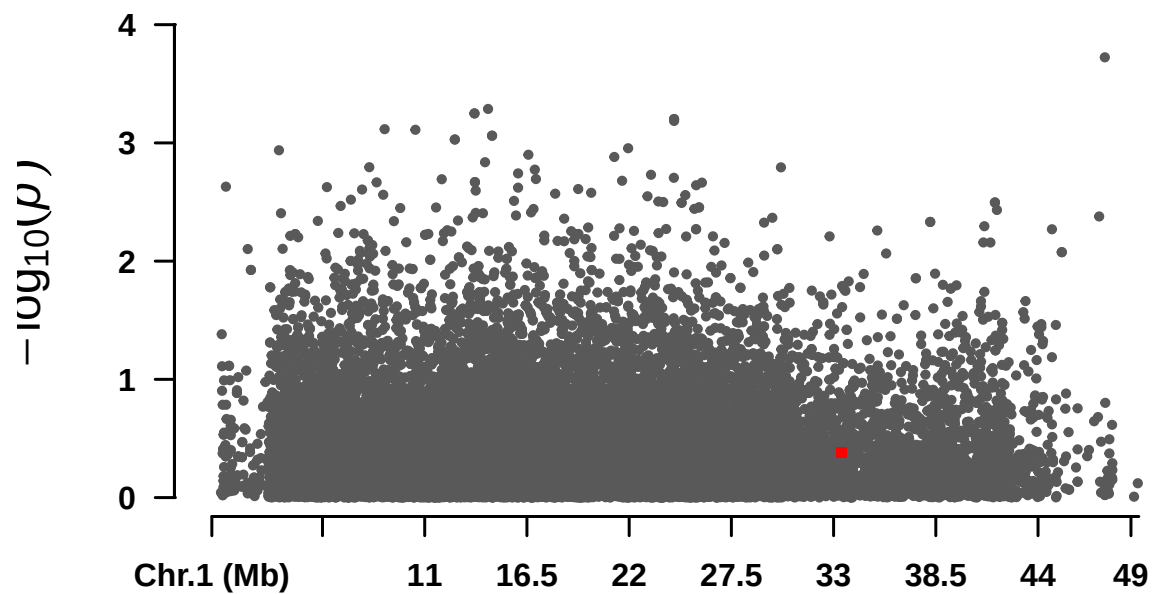
Rectangular Manhattan plotting FarmCPU.



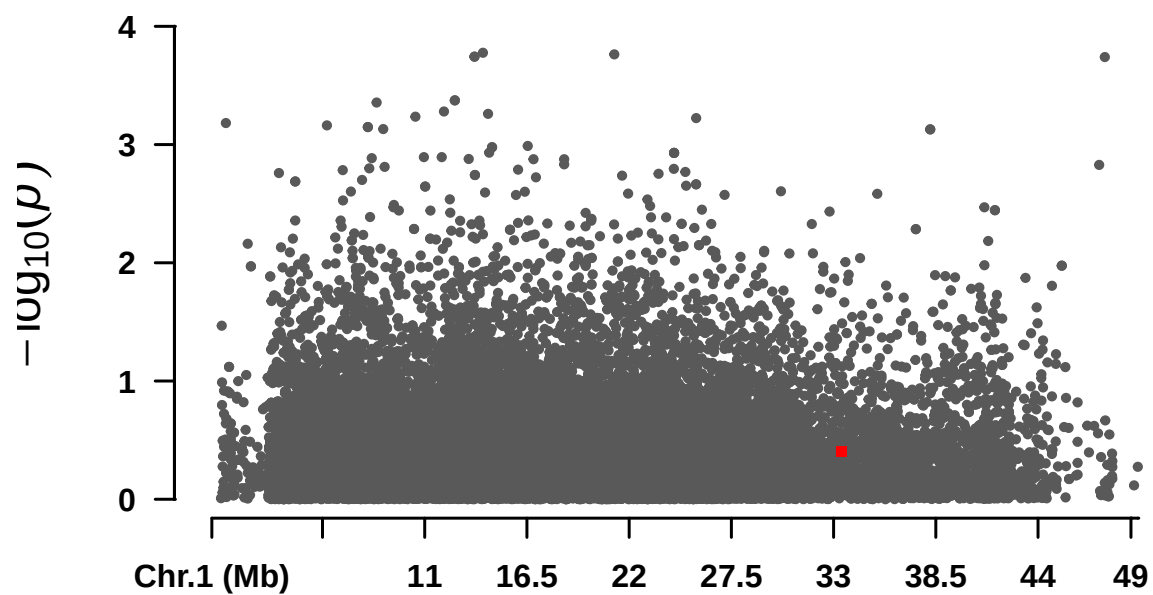
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

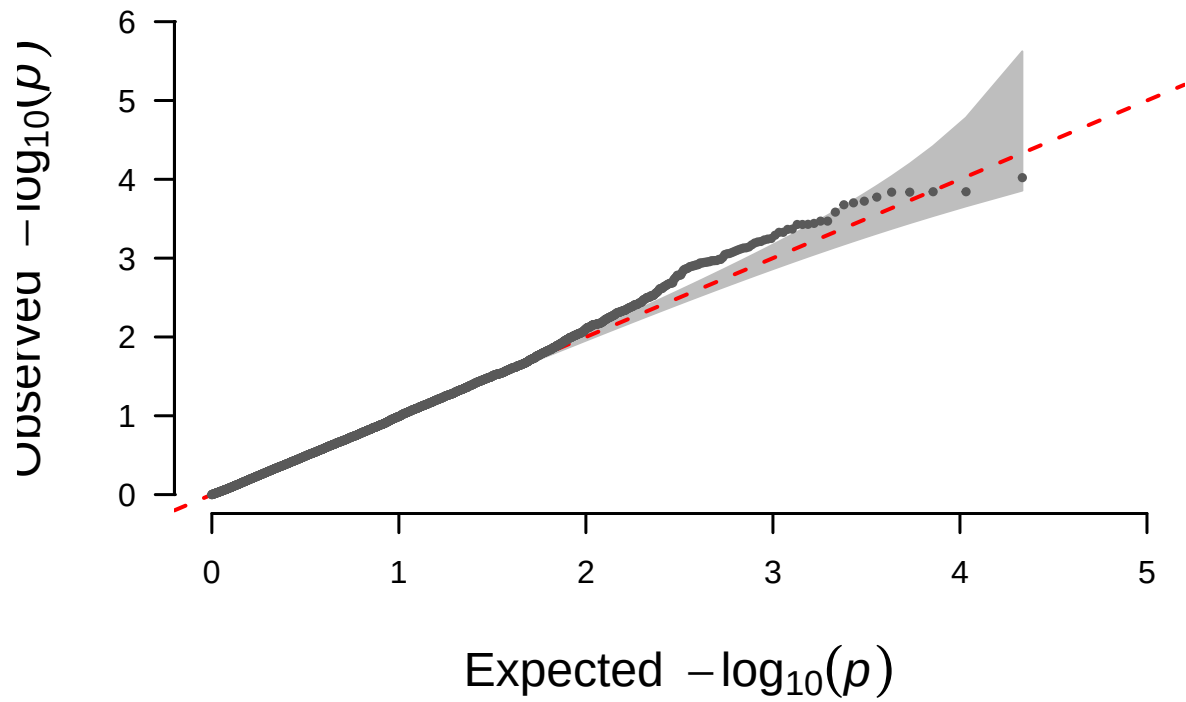


Rectangular Manhattan plotting MLMM.



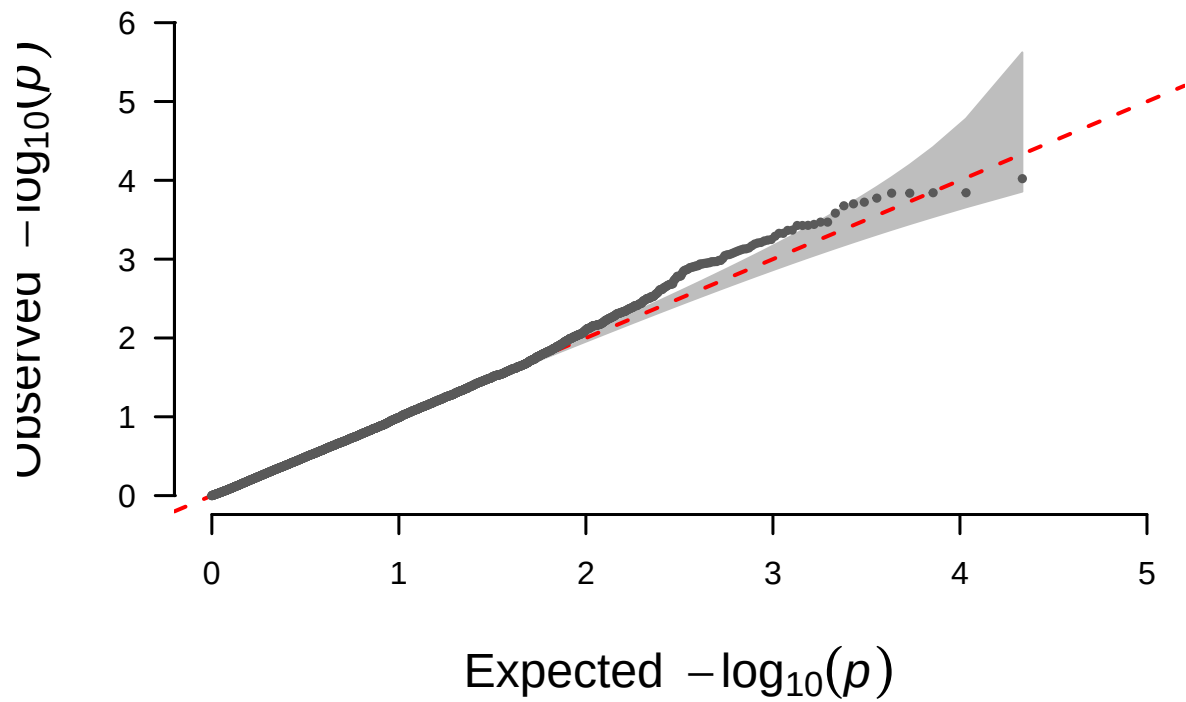
Q-Q plotting BLINK.

BLINK



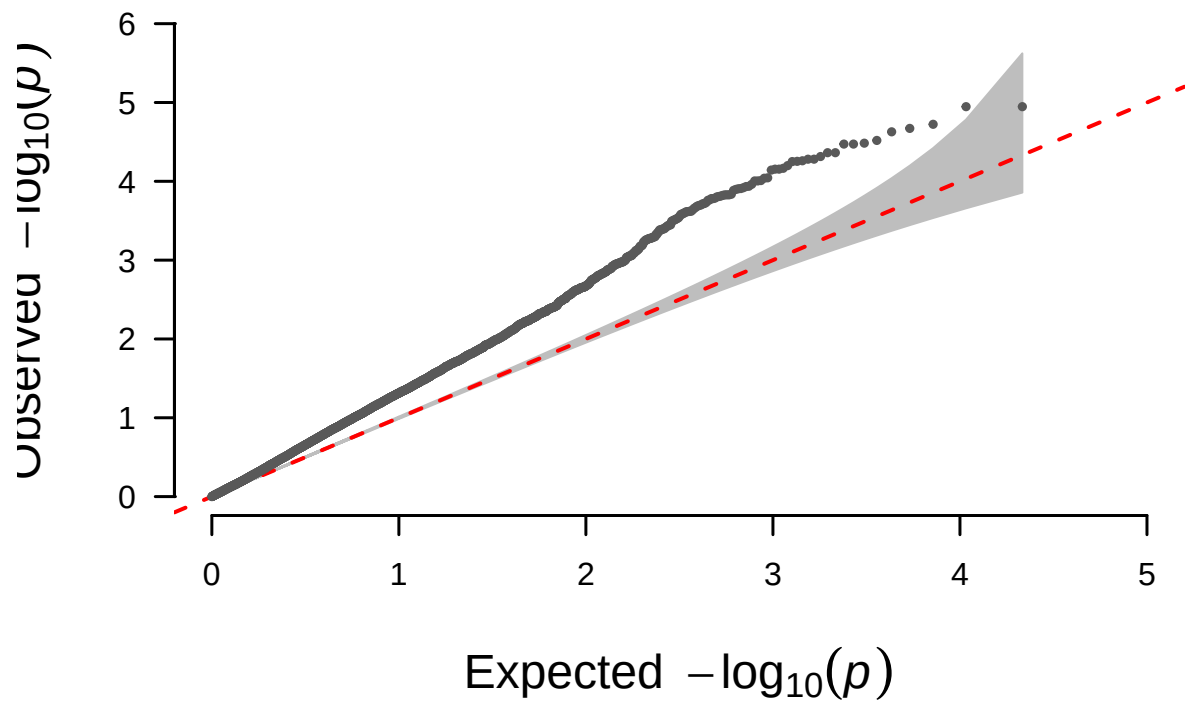
Q-Q plotting FarmCPU.

FarmCPU



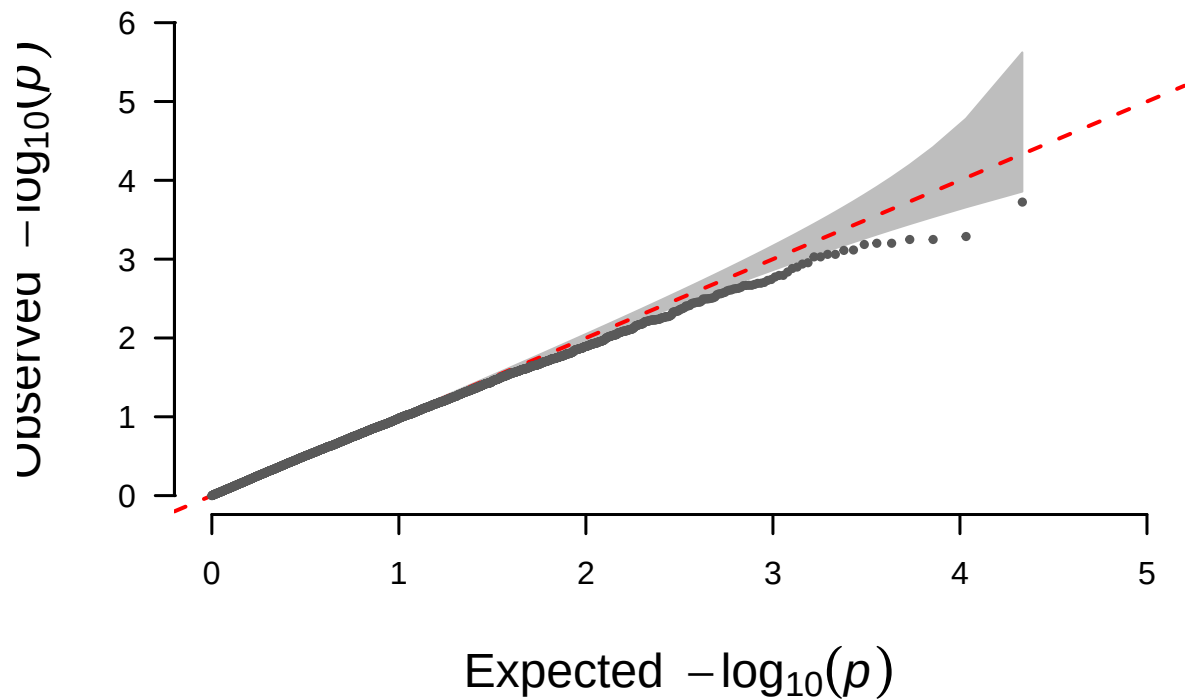
Q-Q plotting GLM.

GLM



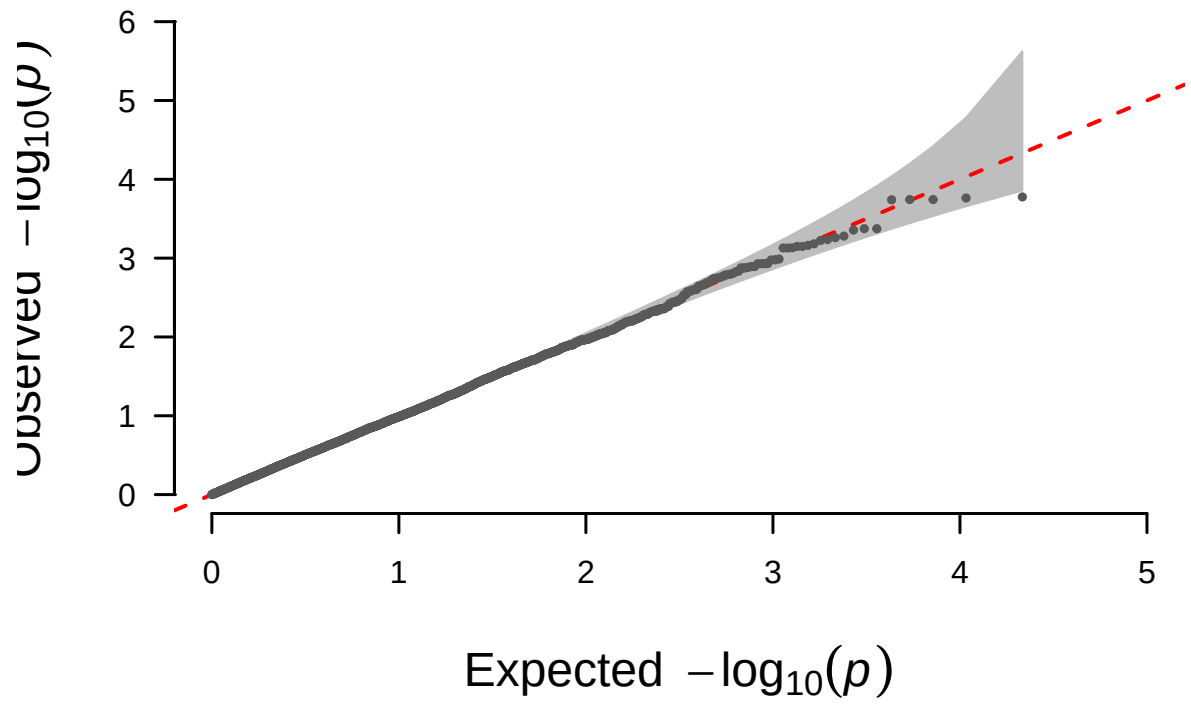
Q-Q plotting MLM.

MLM



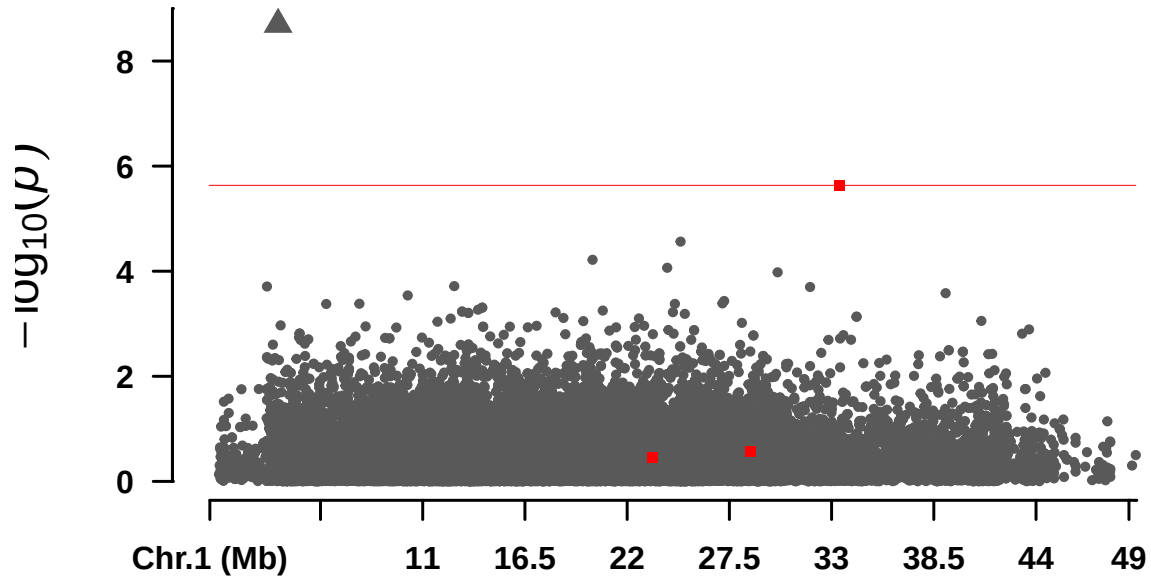
Q-Q plotting MLMM.

MLMM

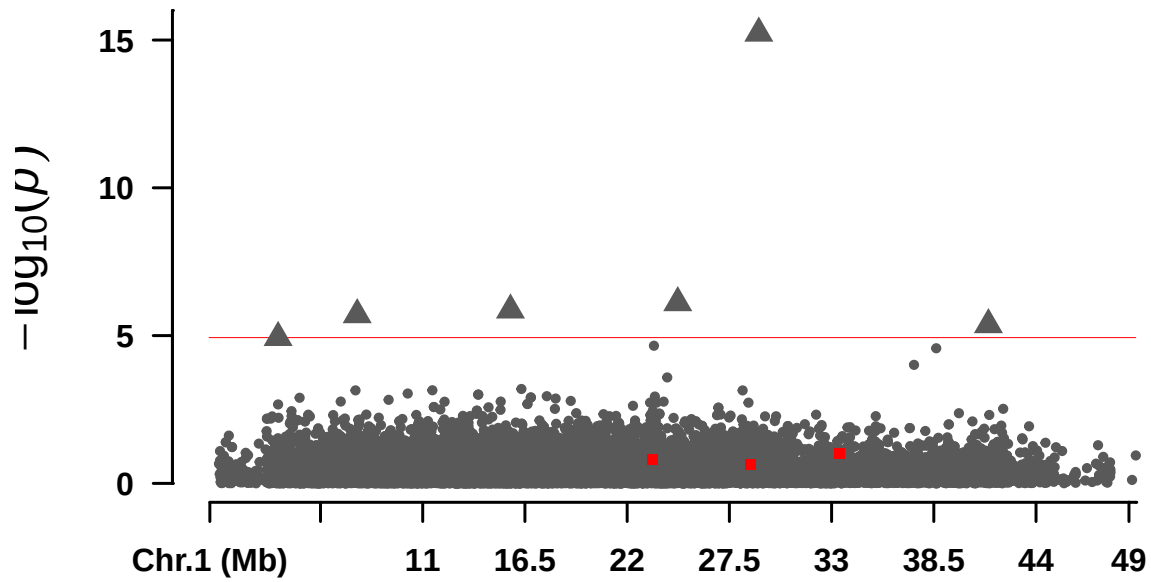


FDM

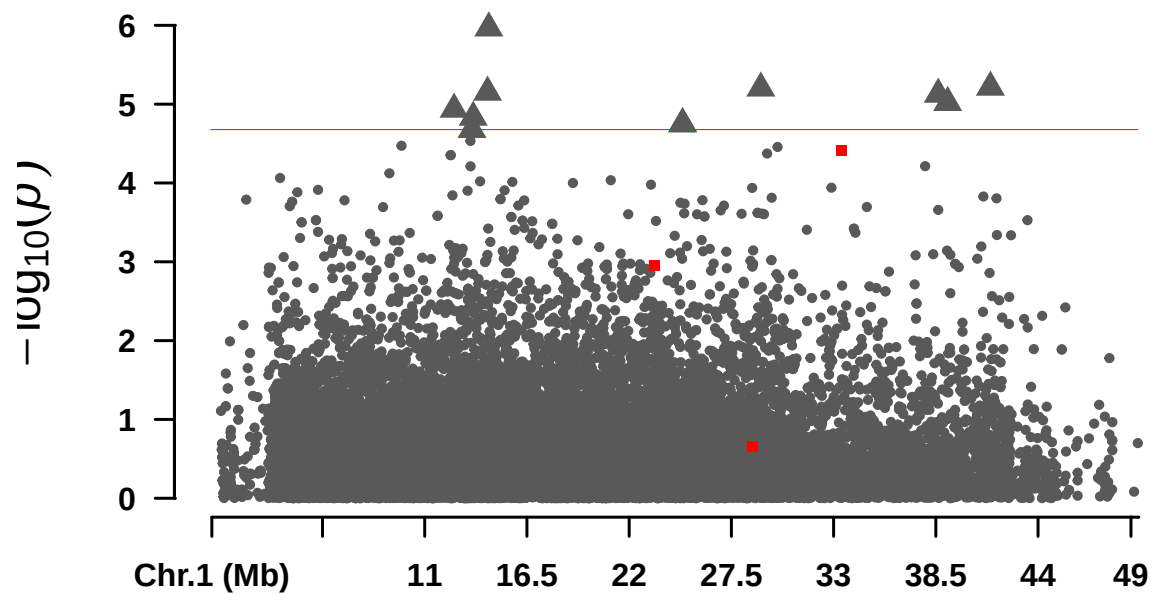
Rectangular Manhattan plotting BLINK.



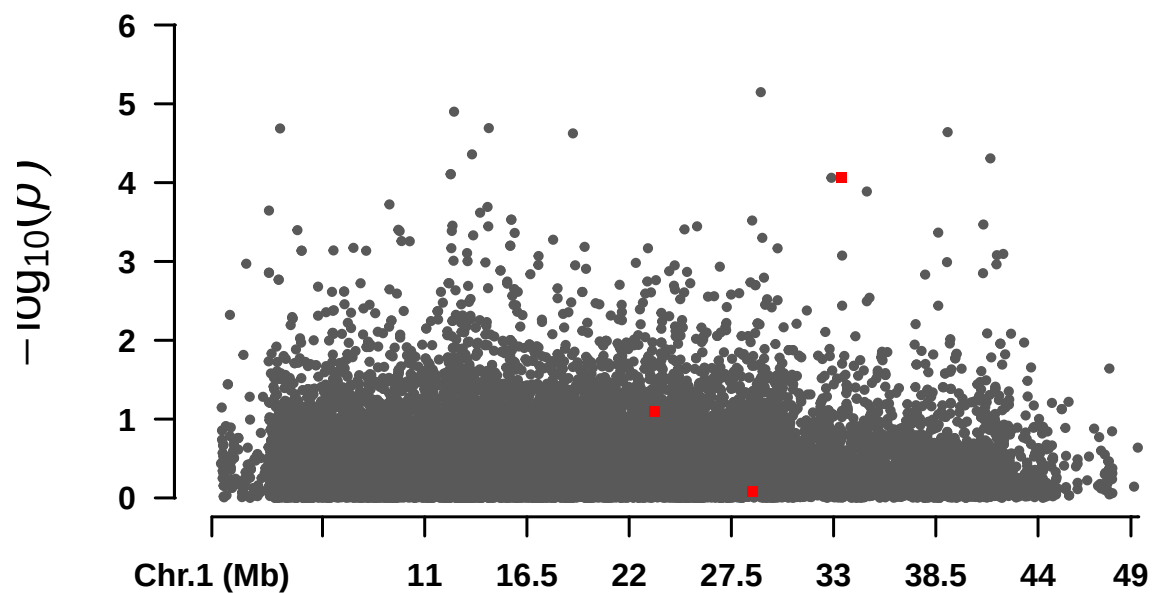
Rectangular Manhattan plotting FarmCPU.



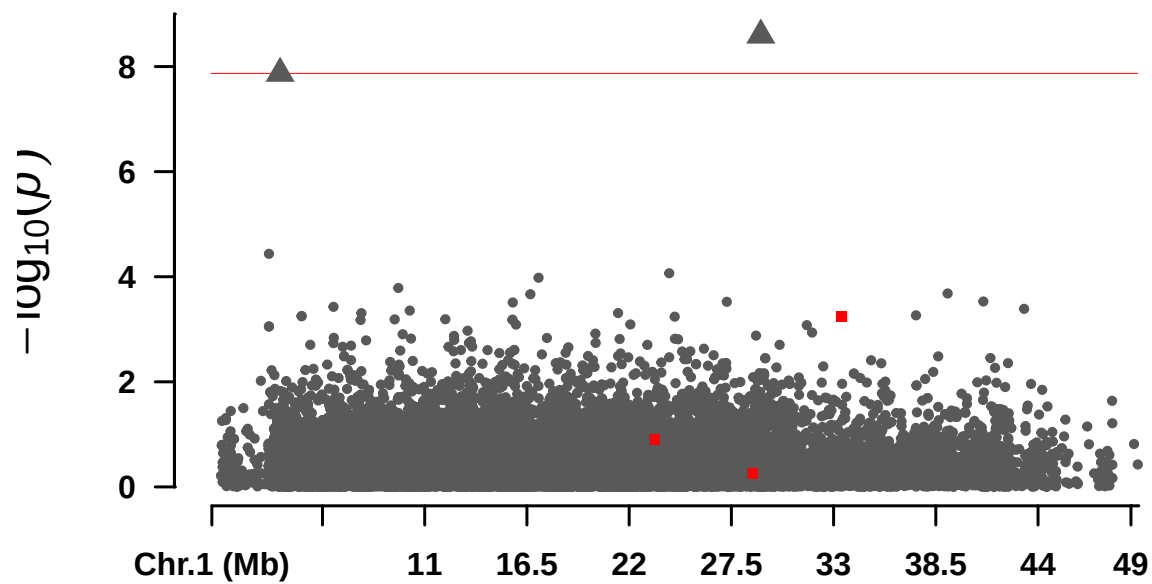
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

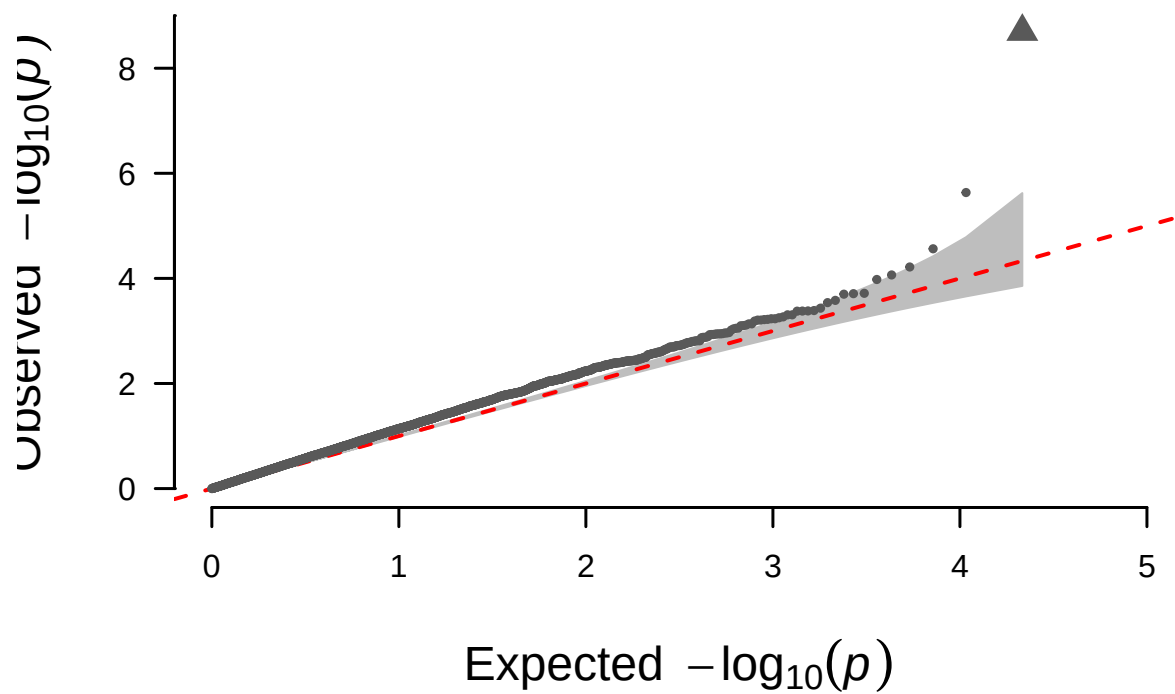


Rectangular Manhattan plotting MLMM.



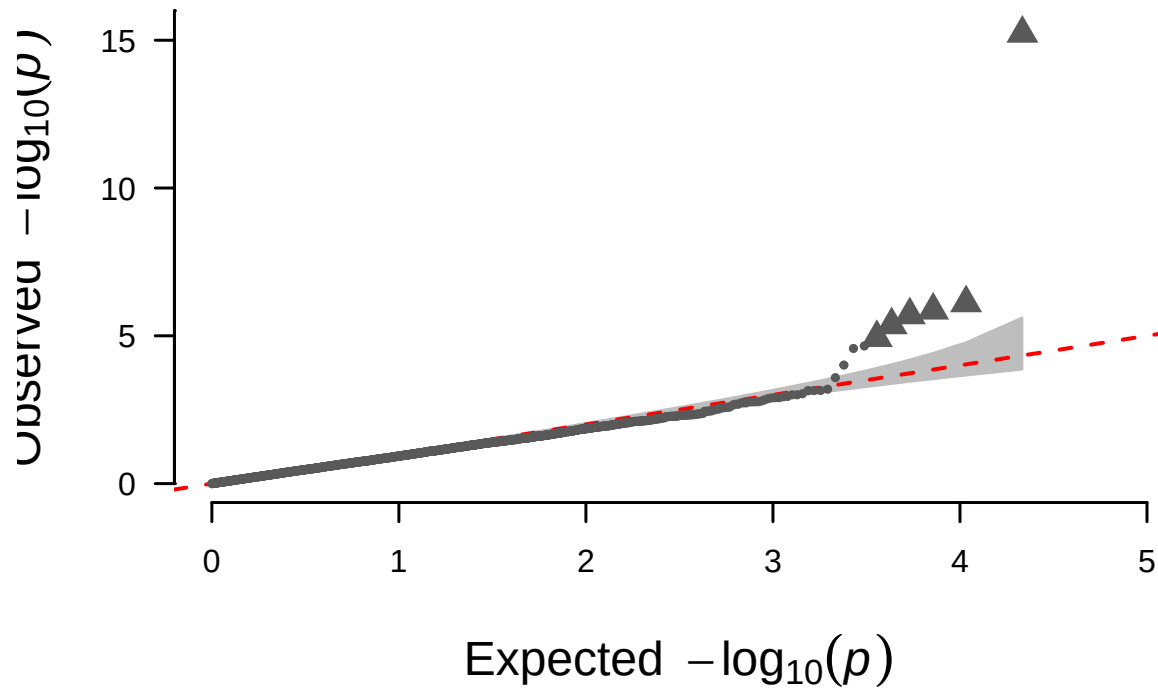
Q-Q plotting BLINK.

BLINK



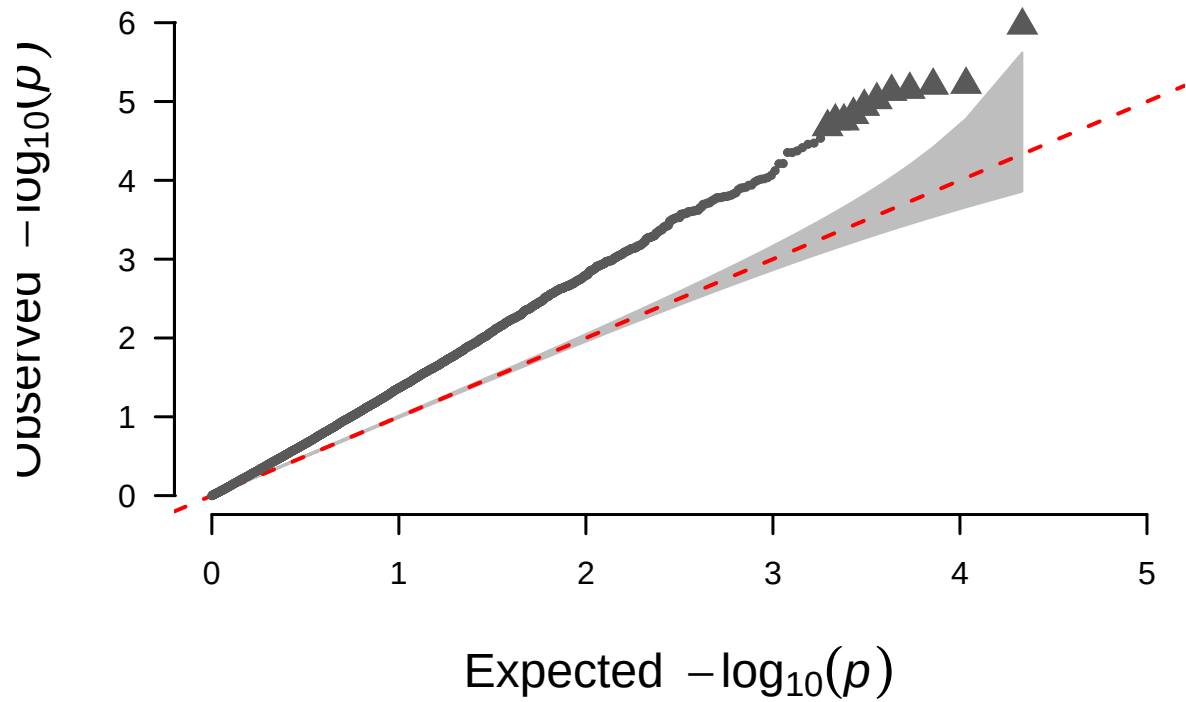
Q-Q plotting FarmCPU.

FarmCPU



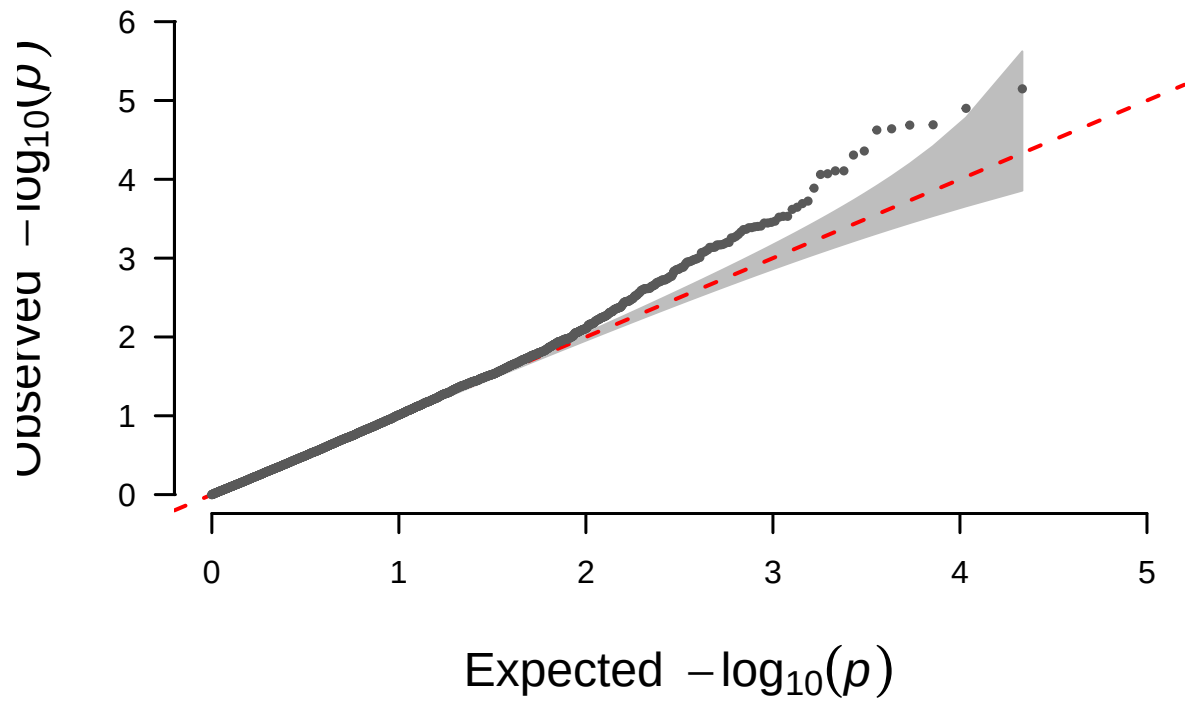
Q-Q plotting GLM.

GLM



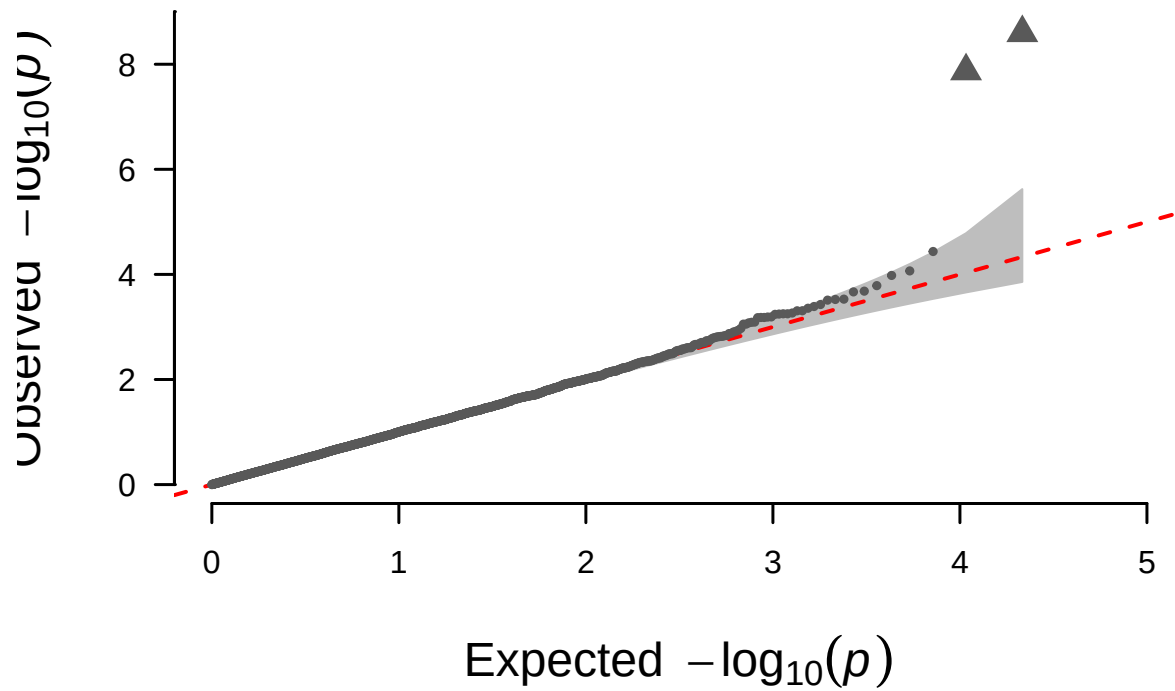
Q-Q plotting MLM.

MLM



Q-Q plotting MLM.

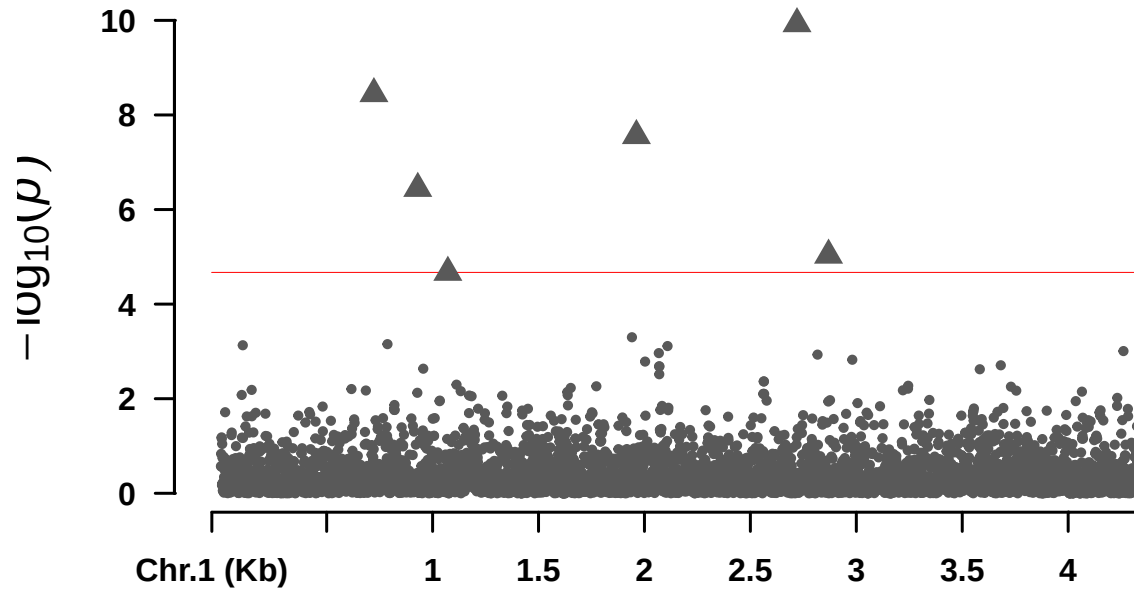
MLMM



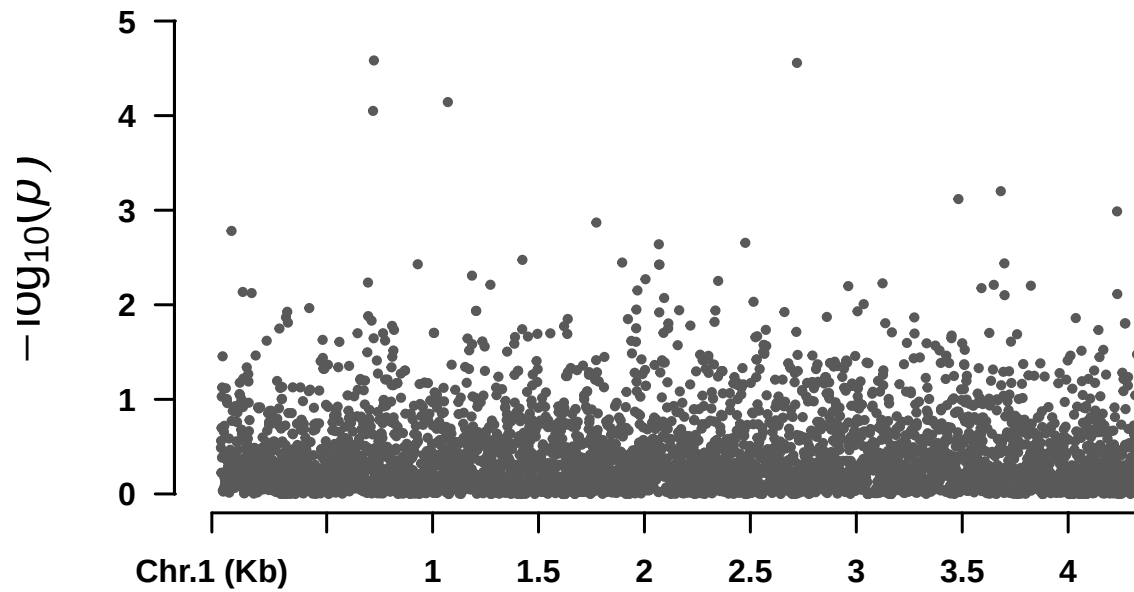
#Single trait GWAS figures - transcriptome genotypic dataset

NL

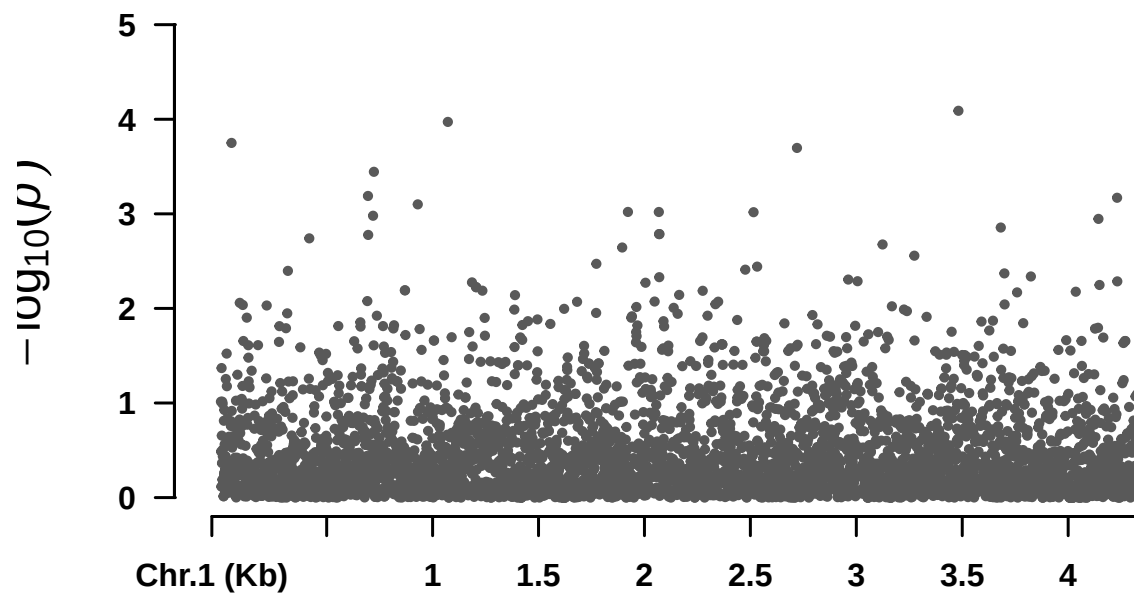
Rectangular Manhattan plotting BLINK.



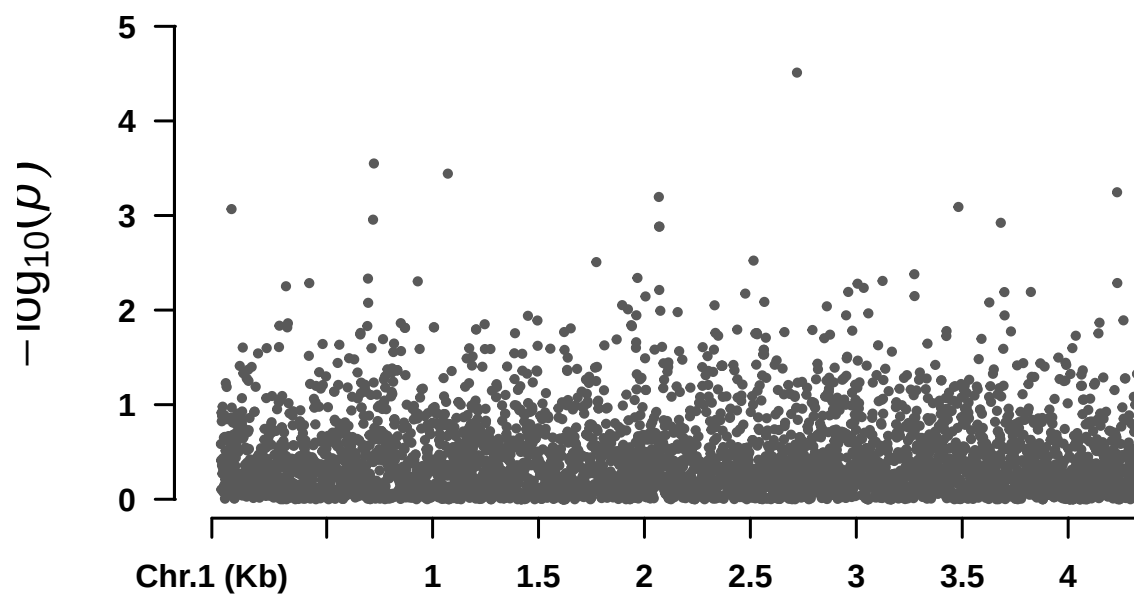
Rectangular Manhattan plotting FarmCPU.



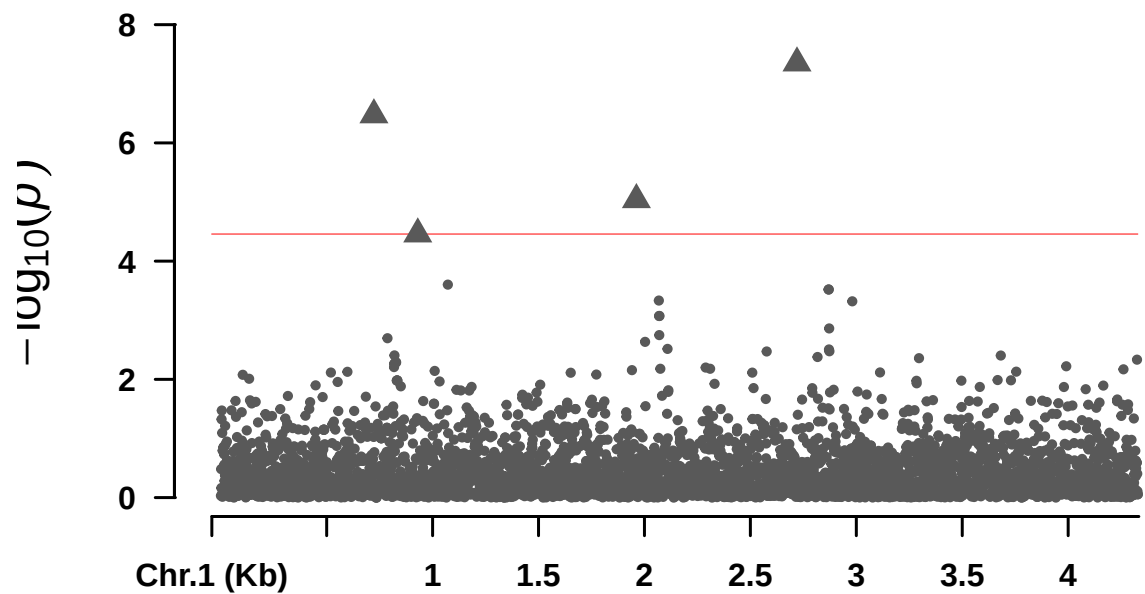
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

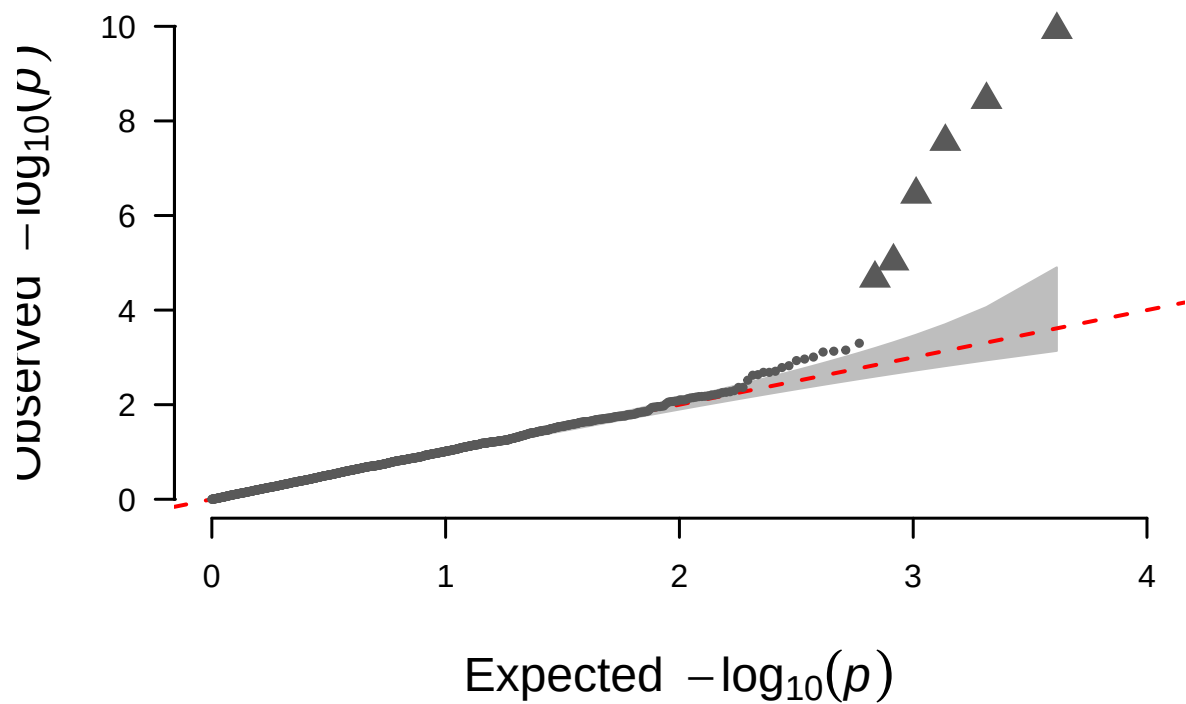


Rectangular Manhattan plotting MLMM.



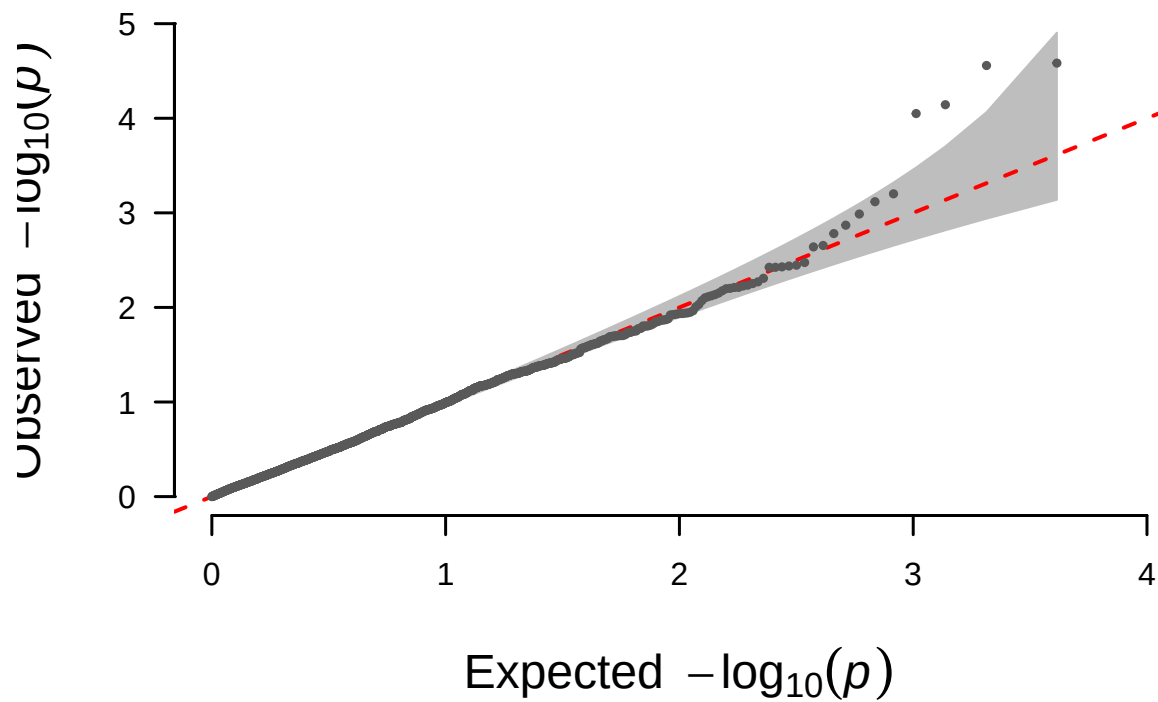
Q-Q plotting BLINK.

BLINK



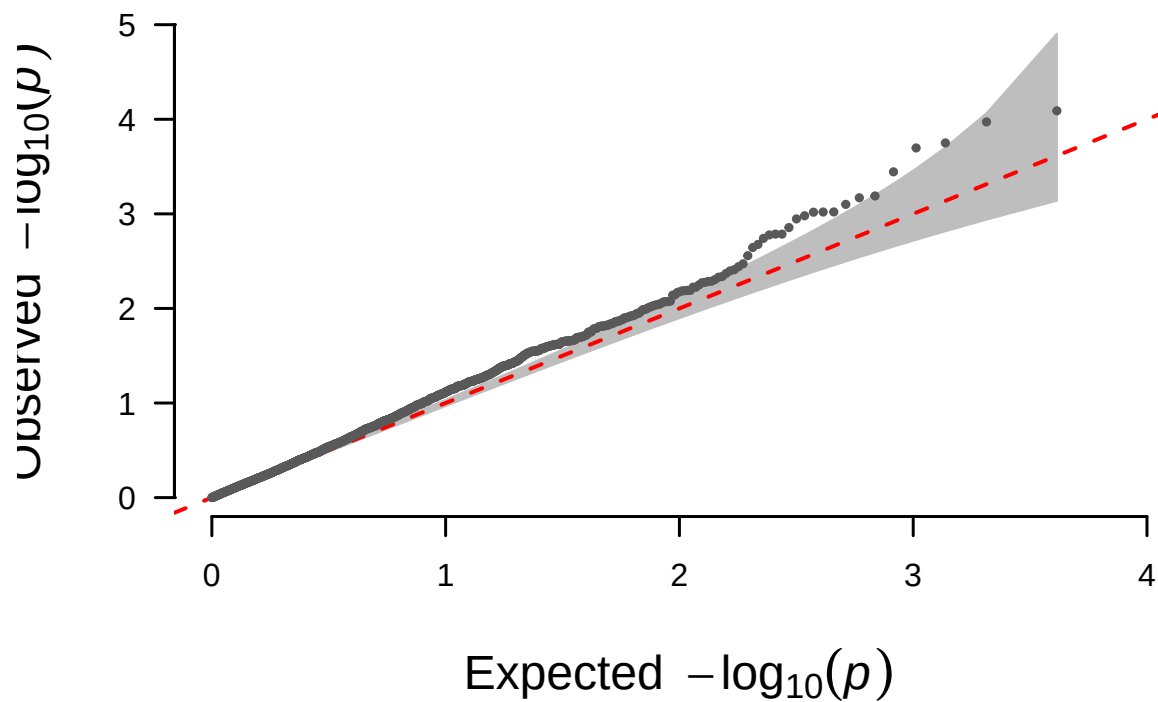
Q-Q plotting FarmCPU.

FarmCPU



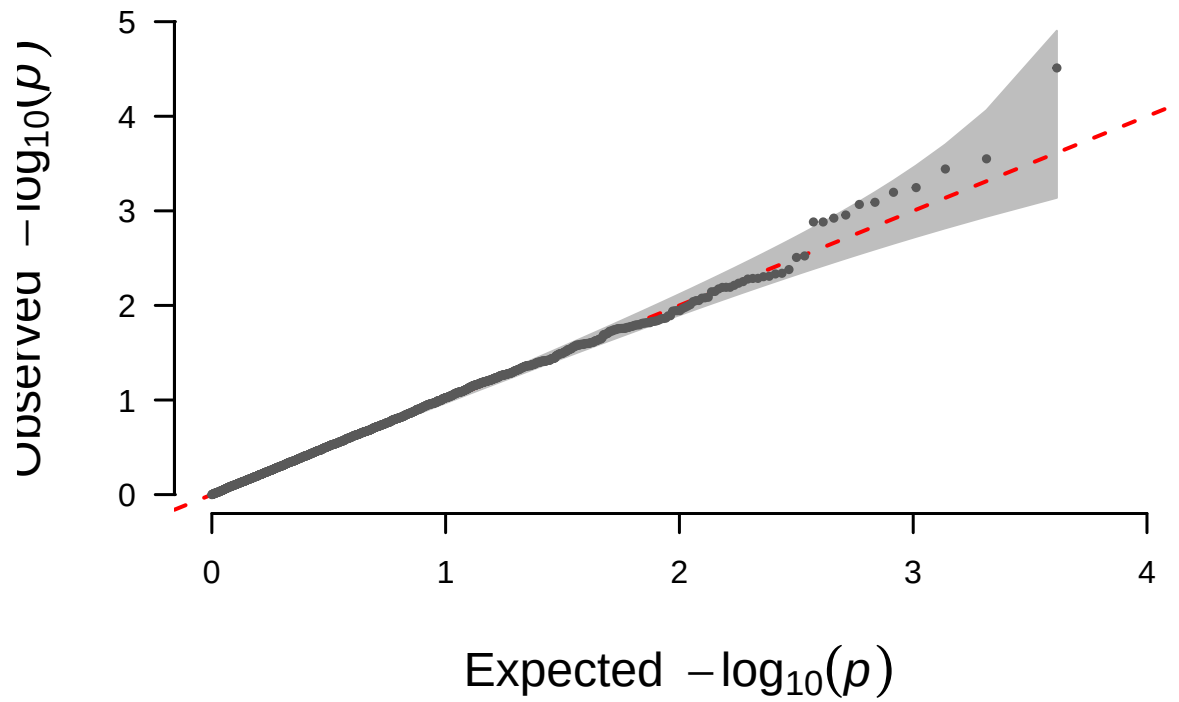
Q-Q plotting GLM.

GLM



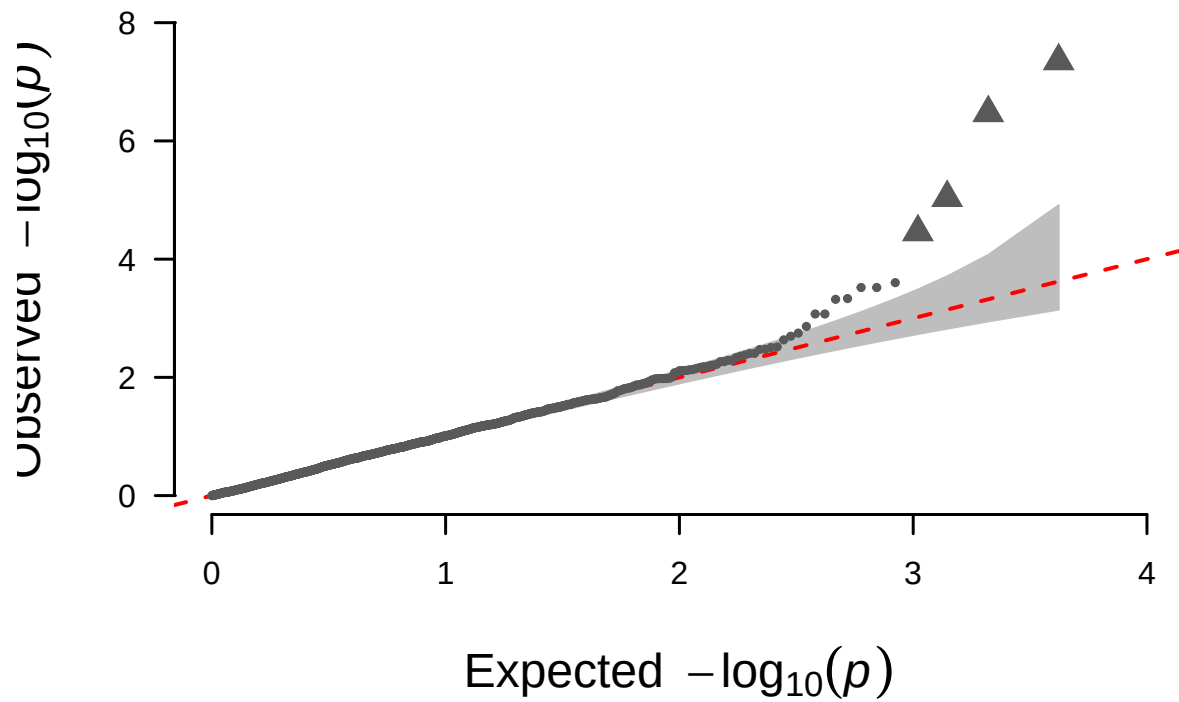
Q-Q plotting MLM.

MLM



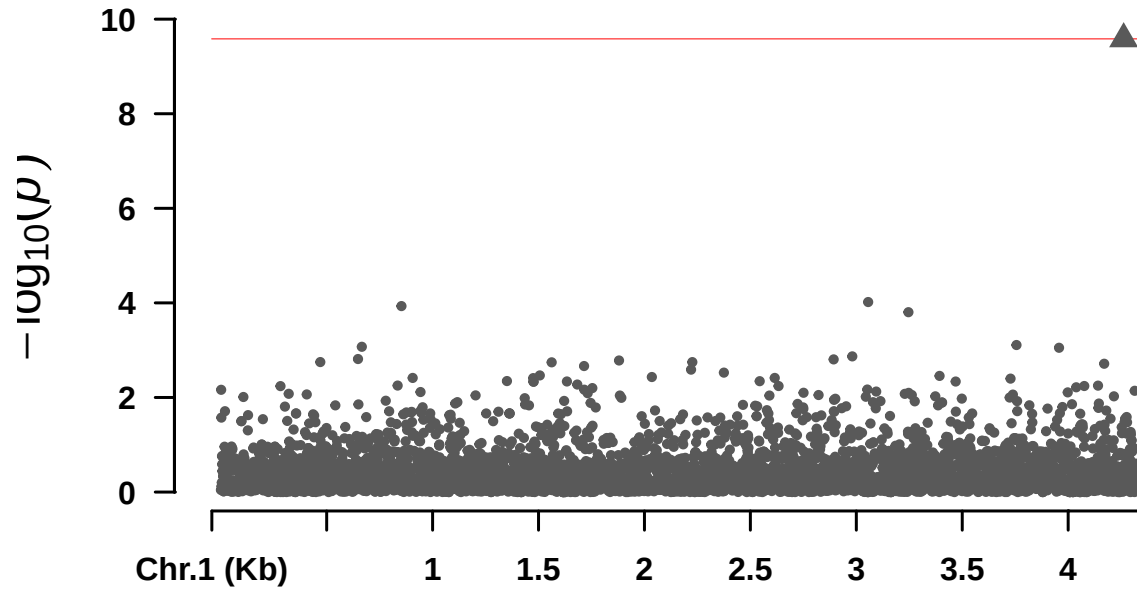
Q-Q plotting MLMM.

MLMM

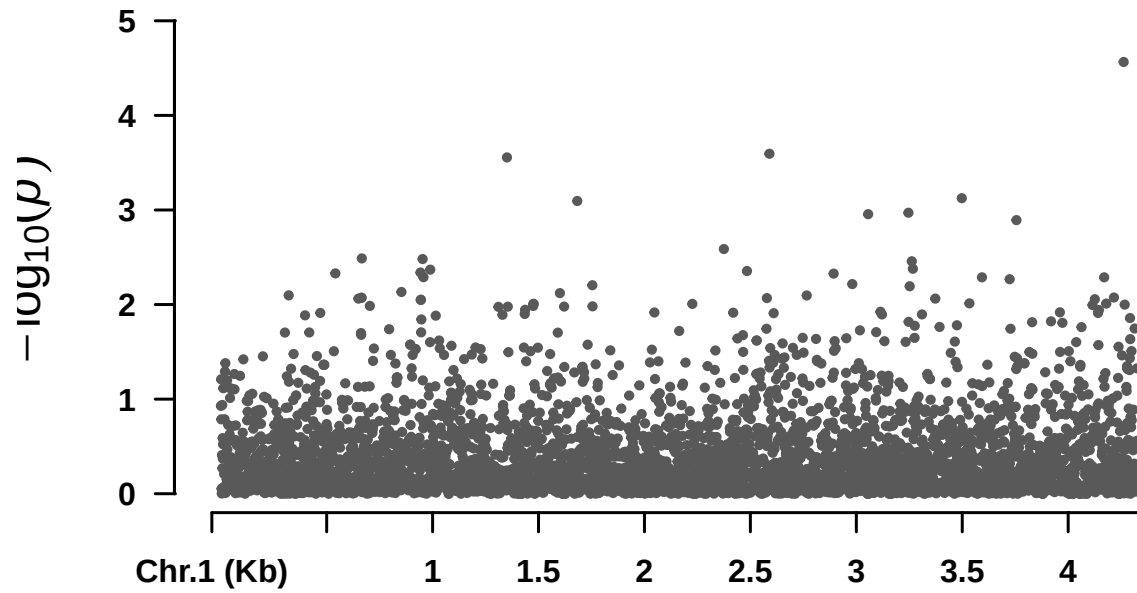


HFM

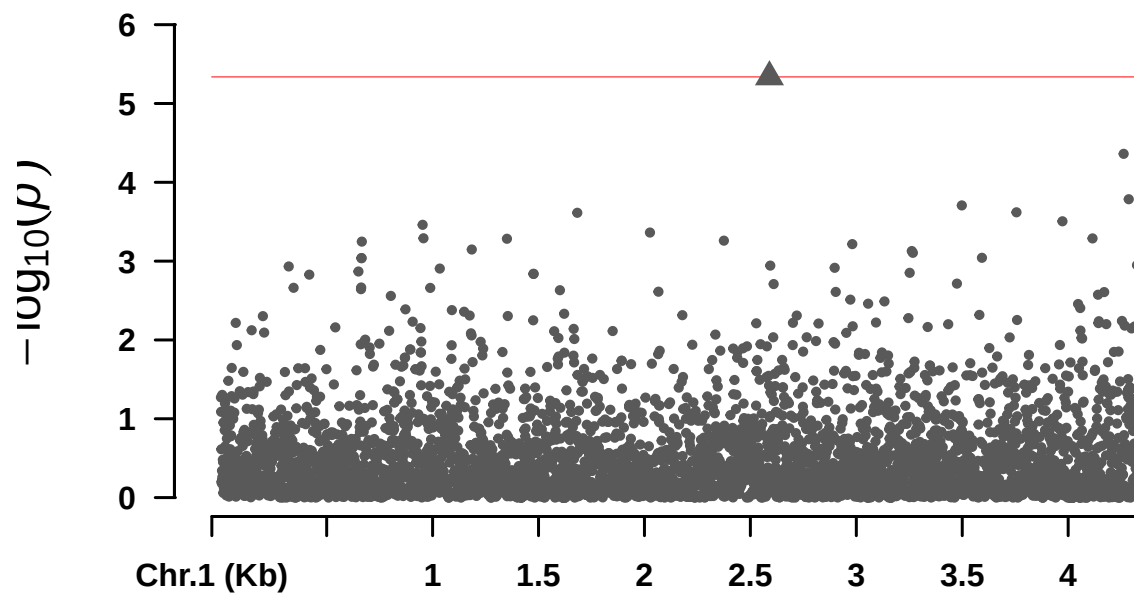
Rectangular Manhattan plotting BLINK.



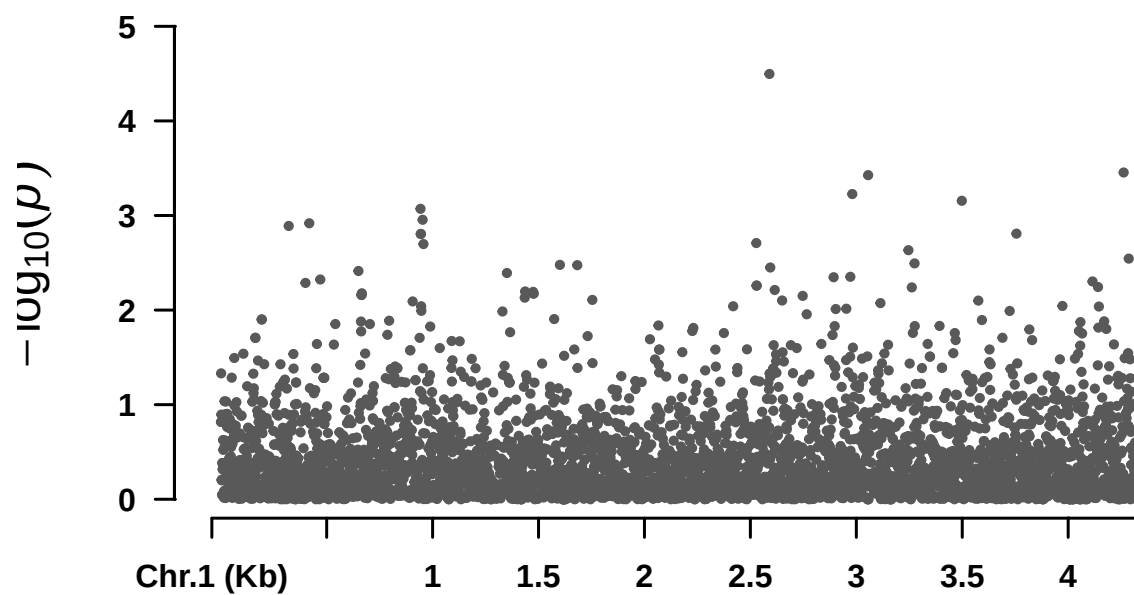
Rectangular Manhattan plotting FarmCPU.



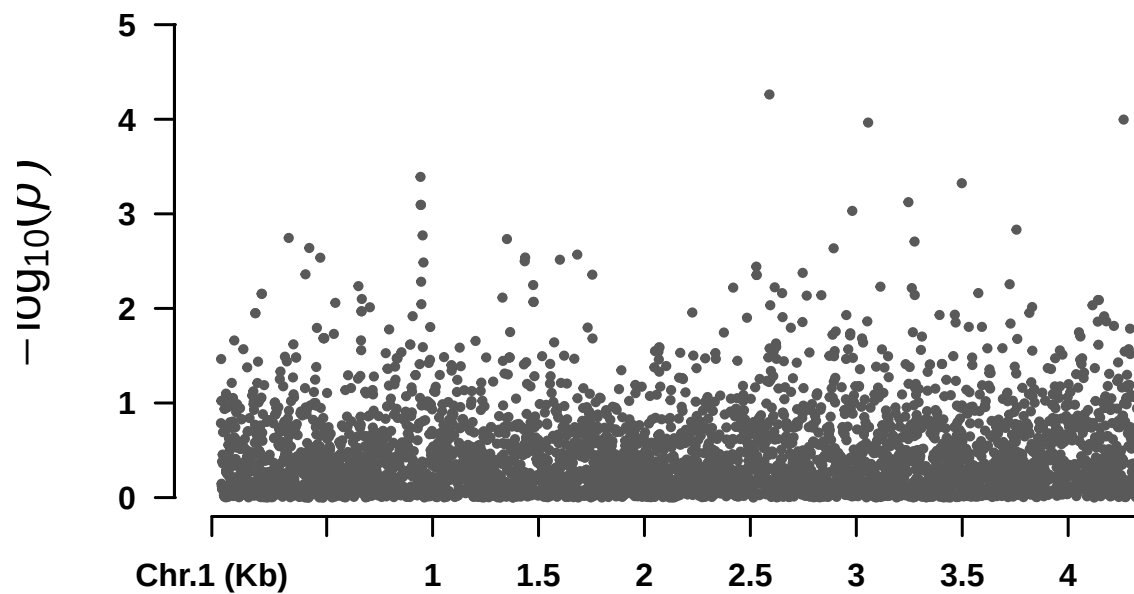
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

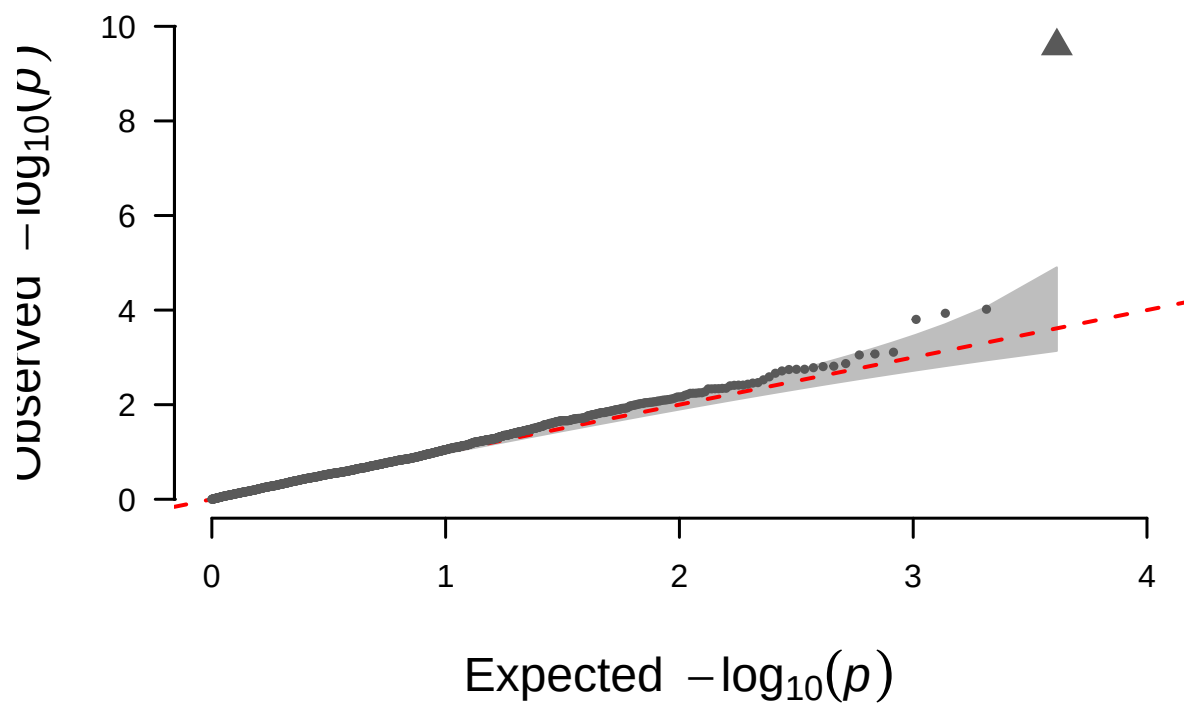


Rectangular Manhattan plotting MLMM.



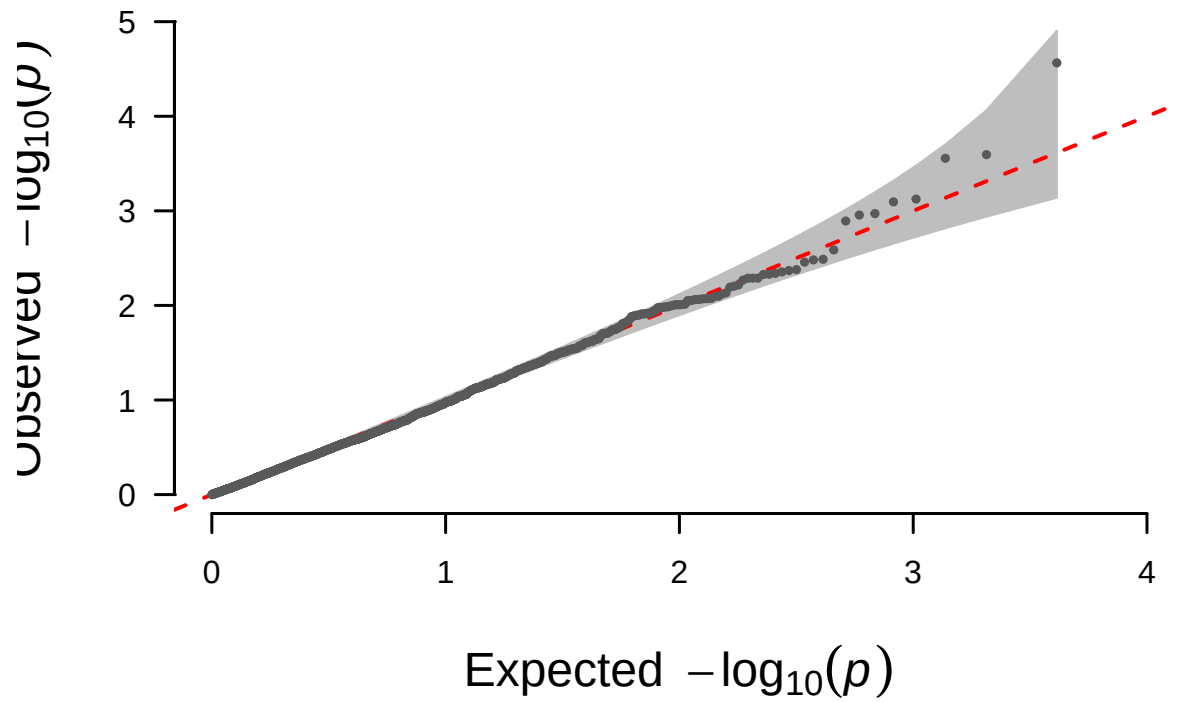
Q-Q plotting BLINK.

BLINK



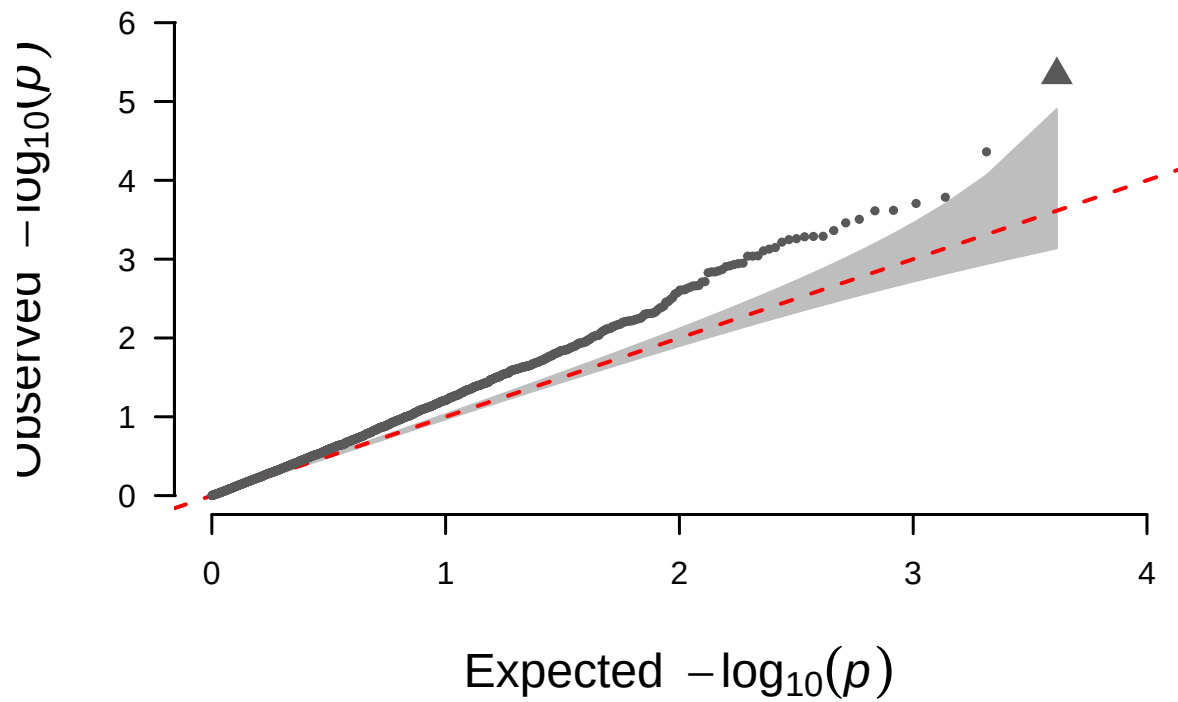
Q-Q plotting FarmCPU.

FarmCPU



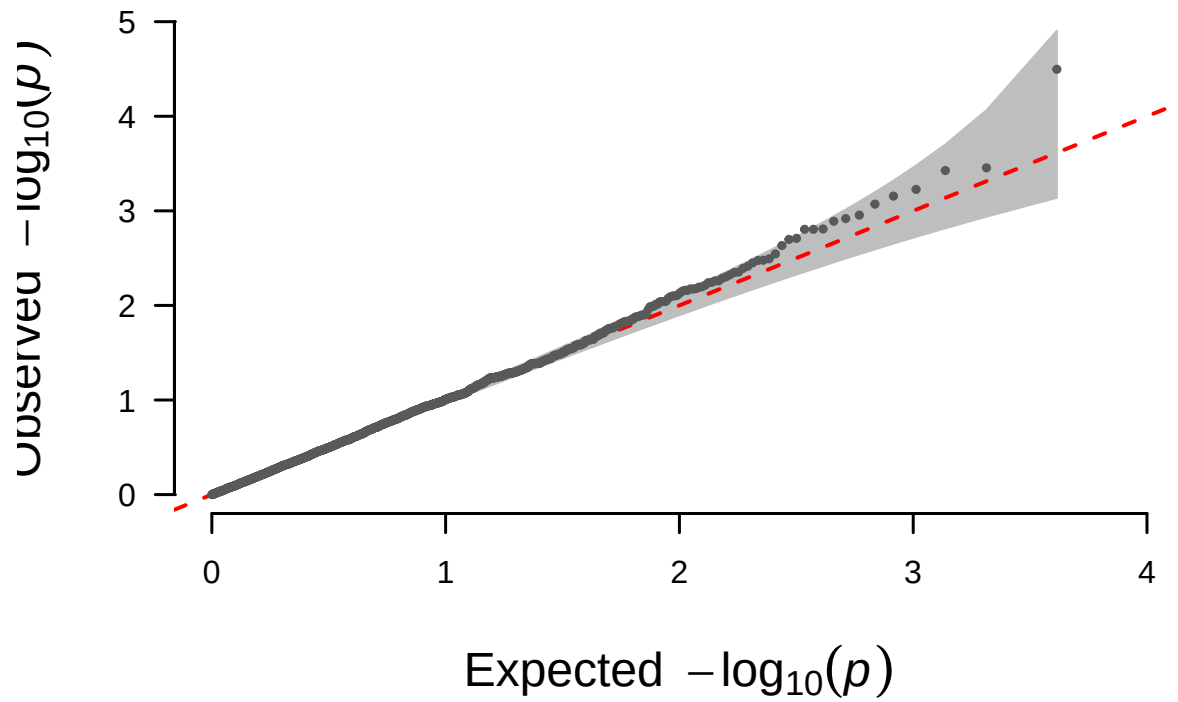
Q-Q plotting GLM.

GLM



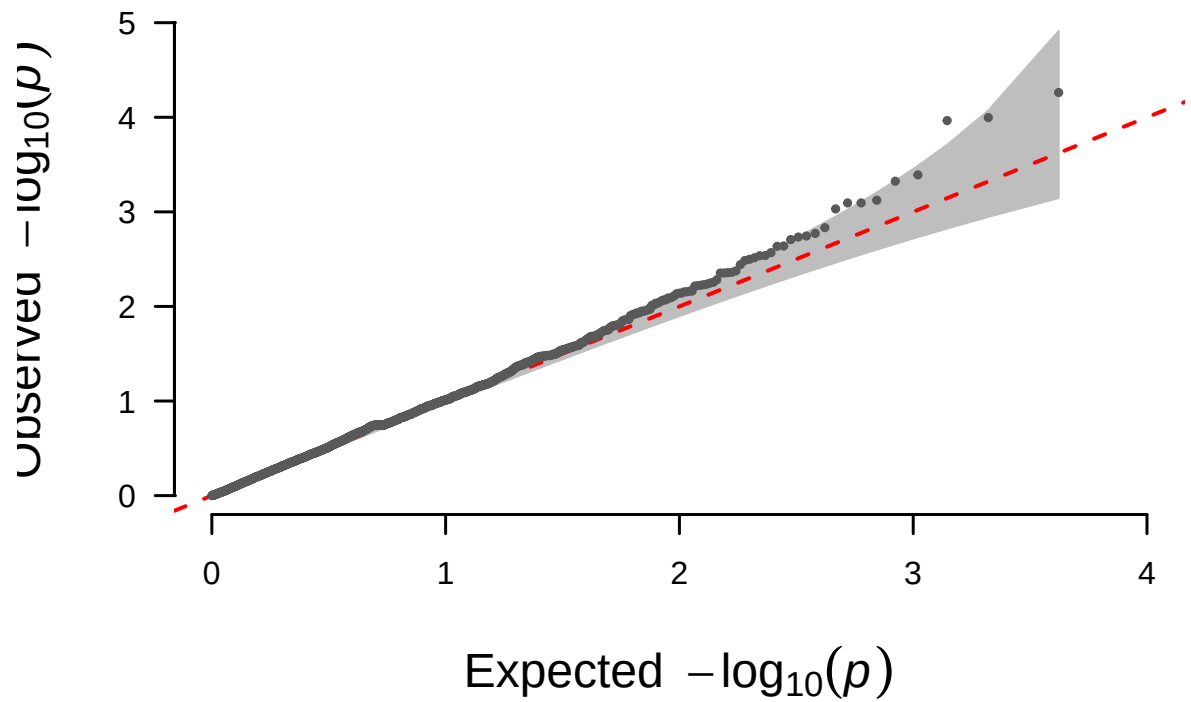
Q-Q plotting MLM.

MLM



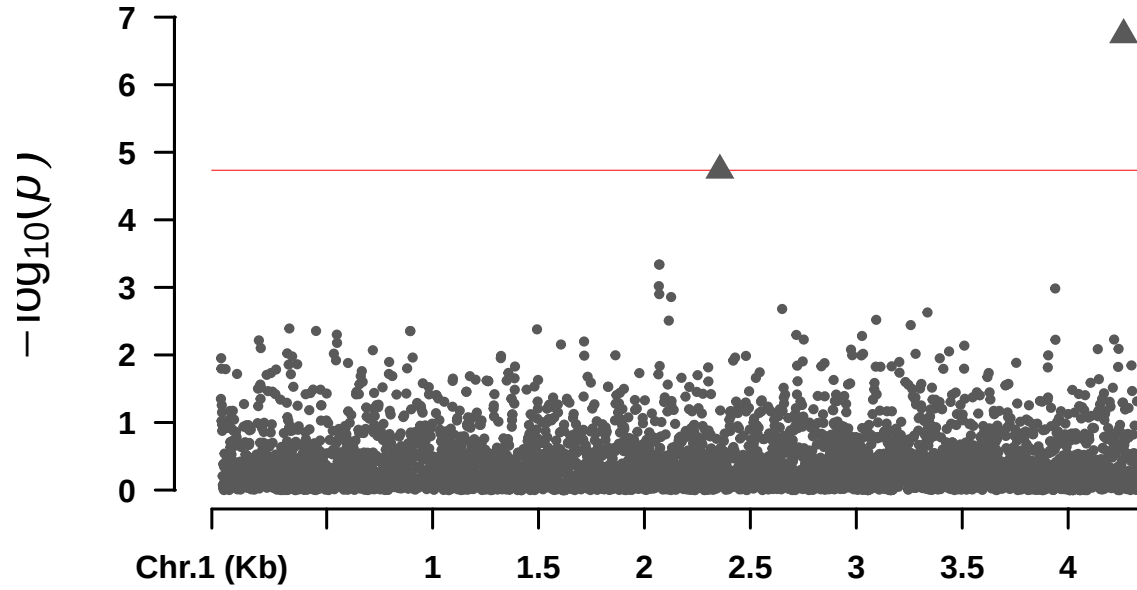
Q-Q plotting MLMM.

MLMM

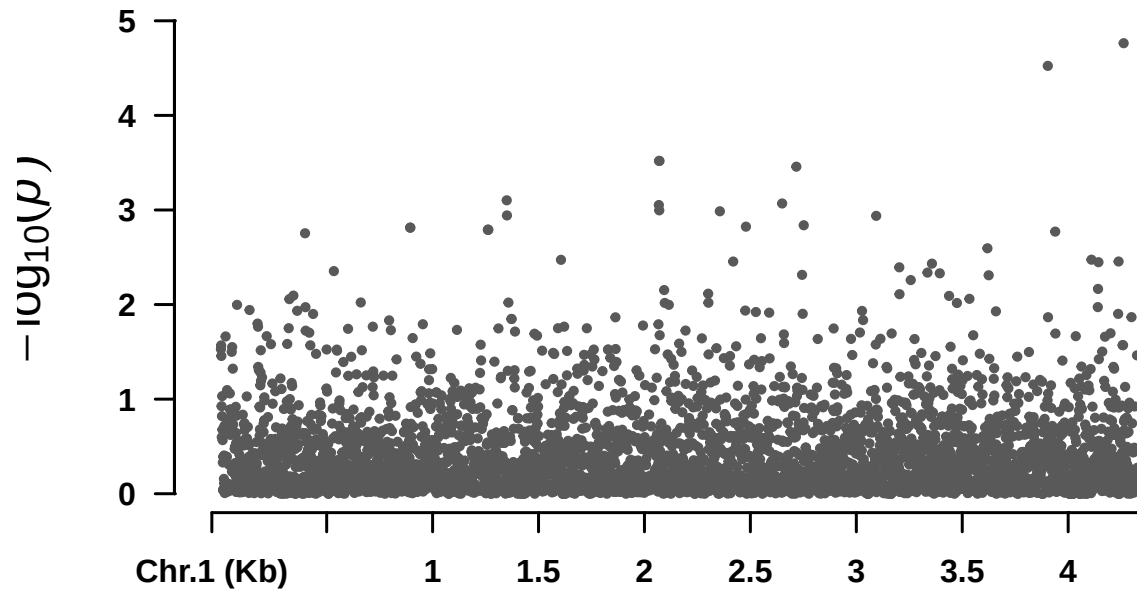


PFM

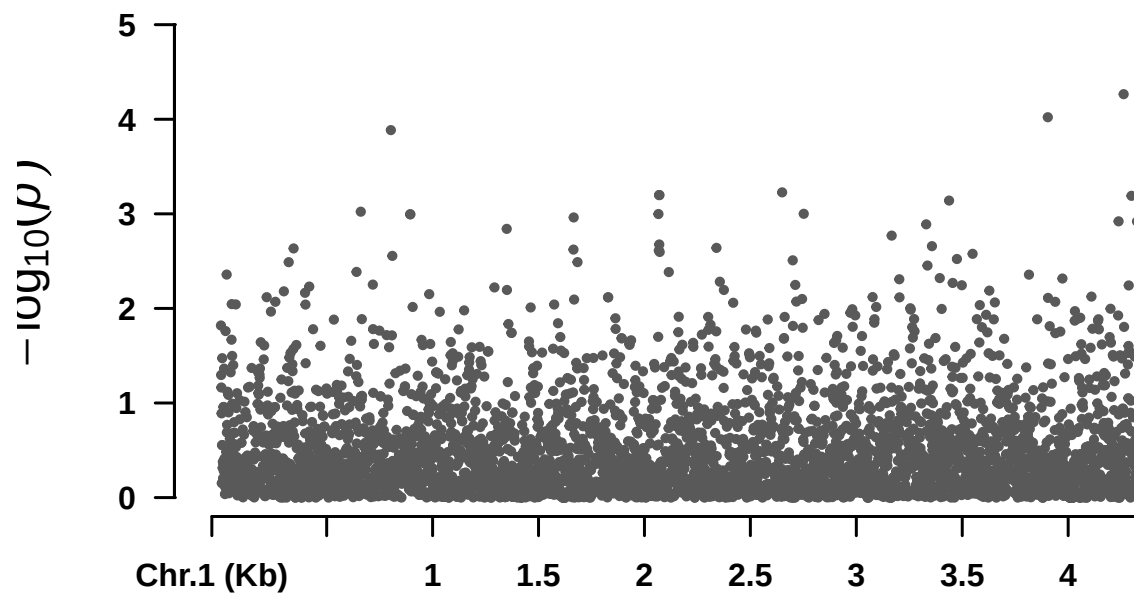
Rectangular Manhattan plotting BLINK.



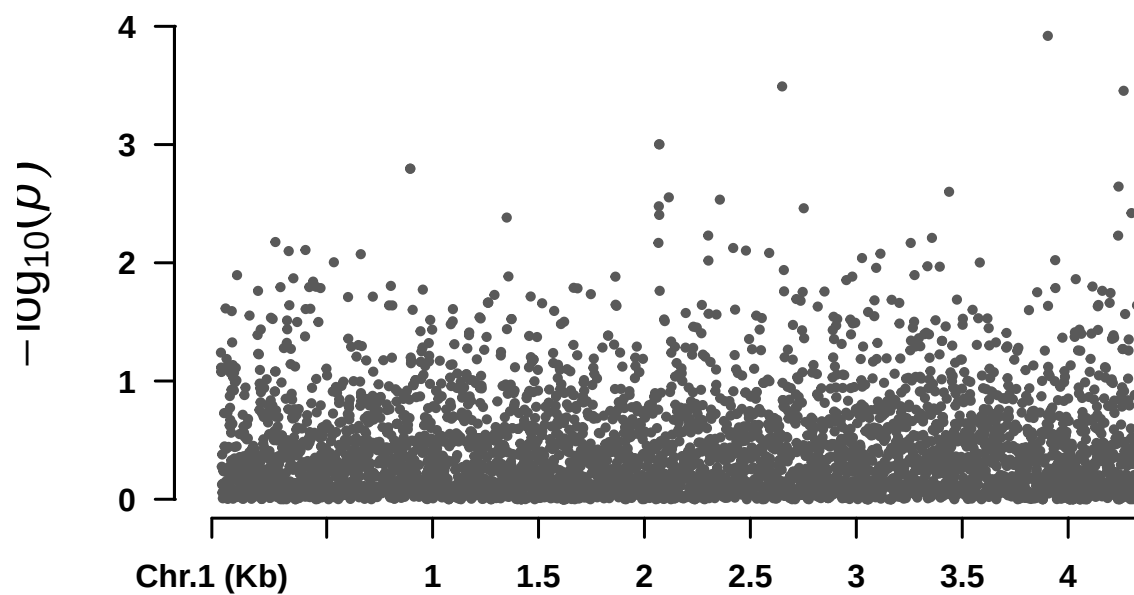
Rectangular Manhattan plotting FarmCPU.



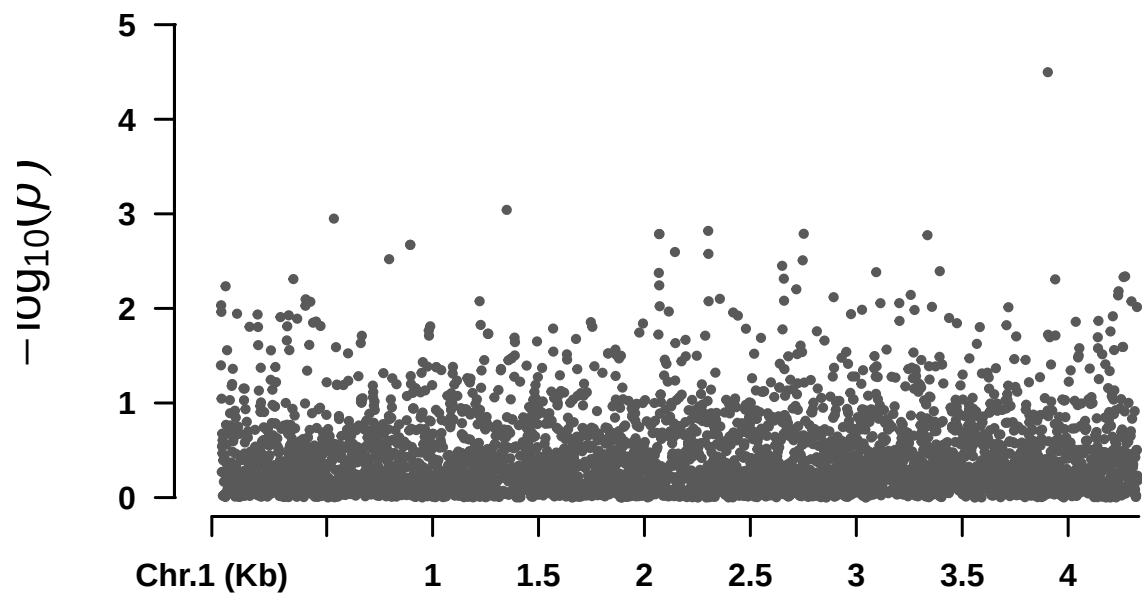
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

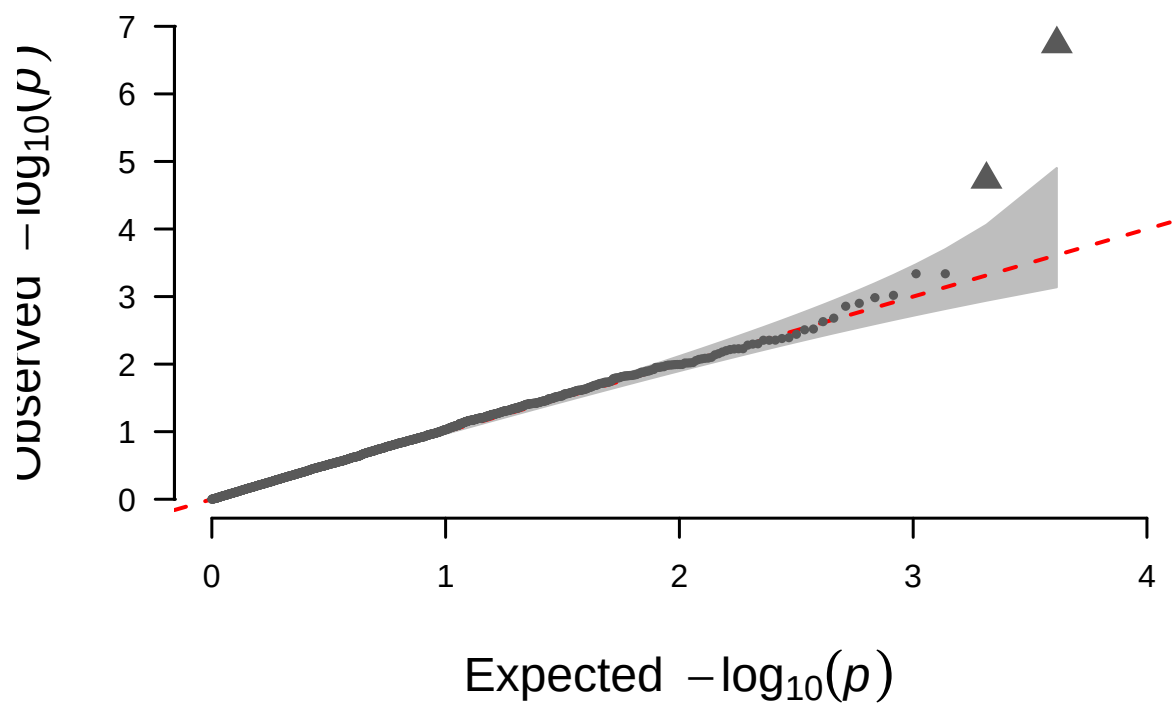


Rectangular Manhattan plotting MLMM.



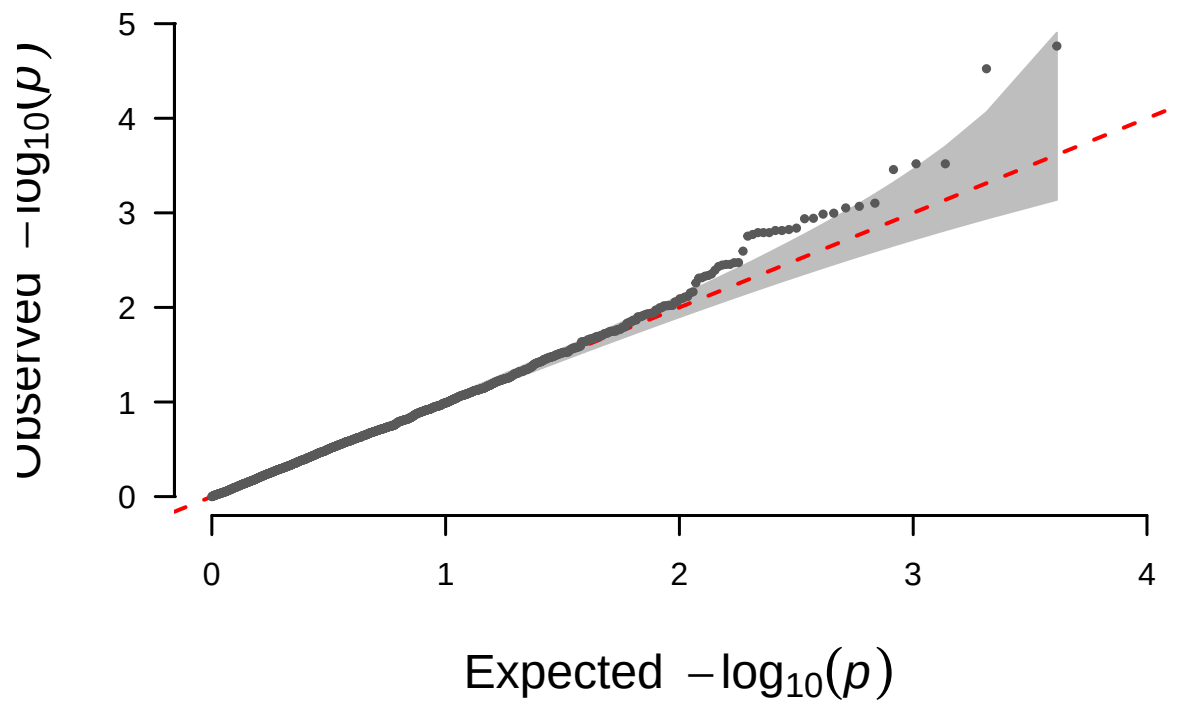
Q-Q plotting BLINK.

BLINK



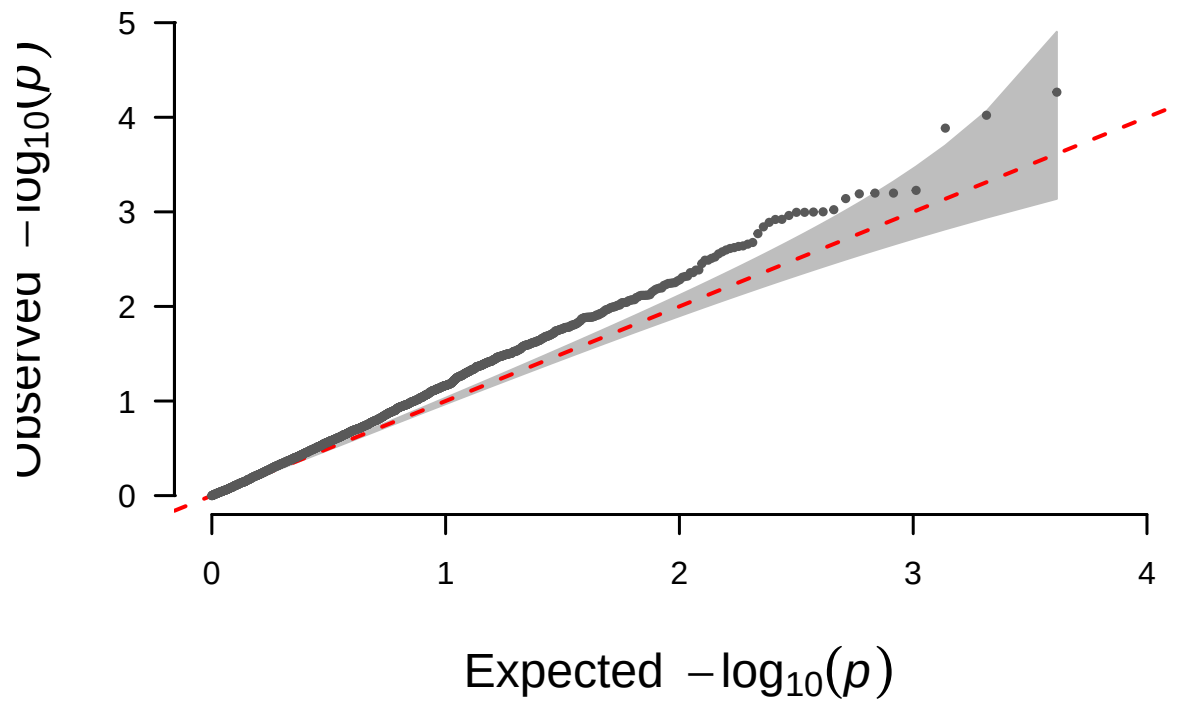
Q-Q plotting FarmCPU.

FarmCPU



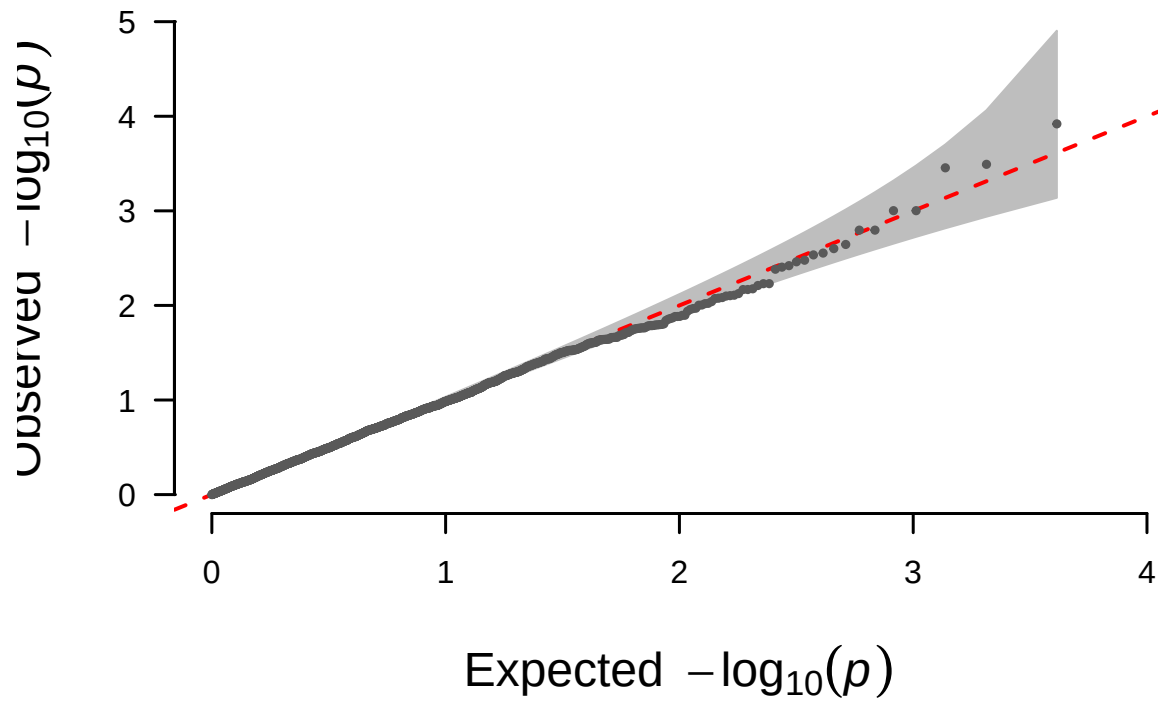
Q-Q plotting GLM.

GLM



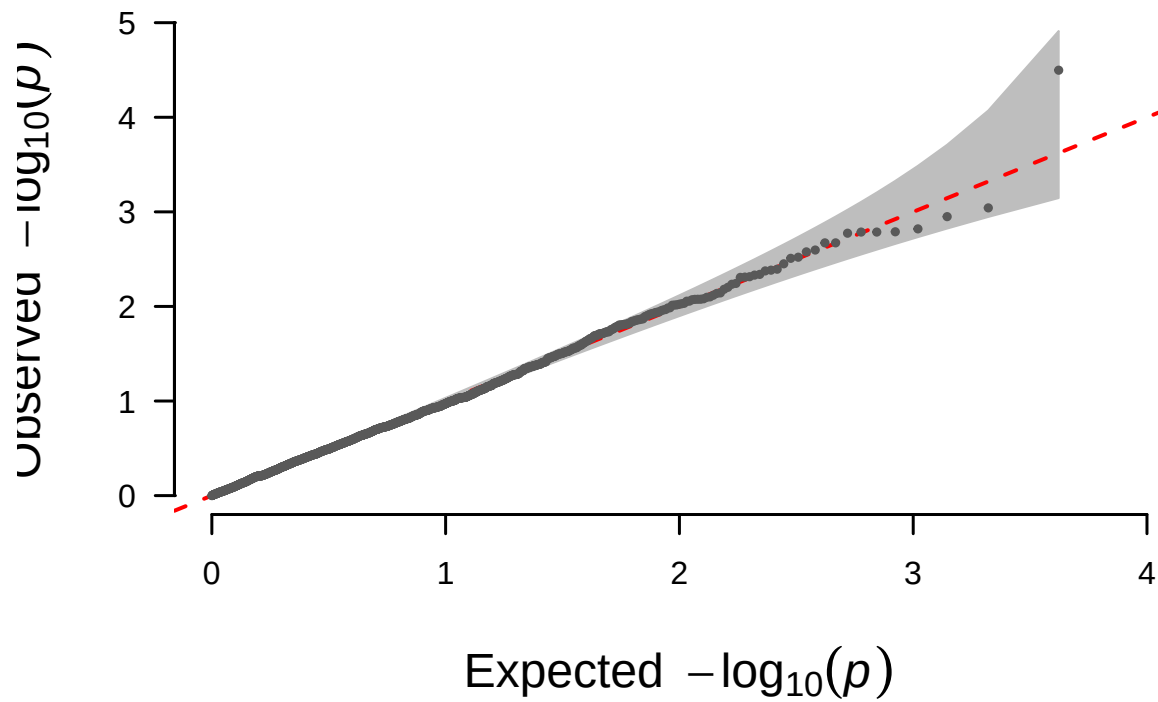
Q-Q plotting MLM.

MLM



Q-Q plotting MLMM.

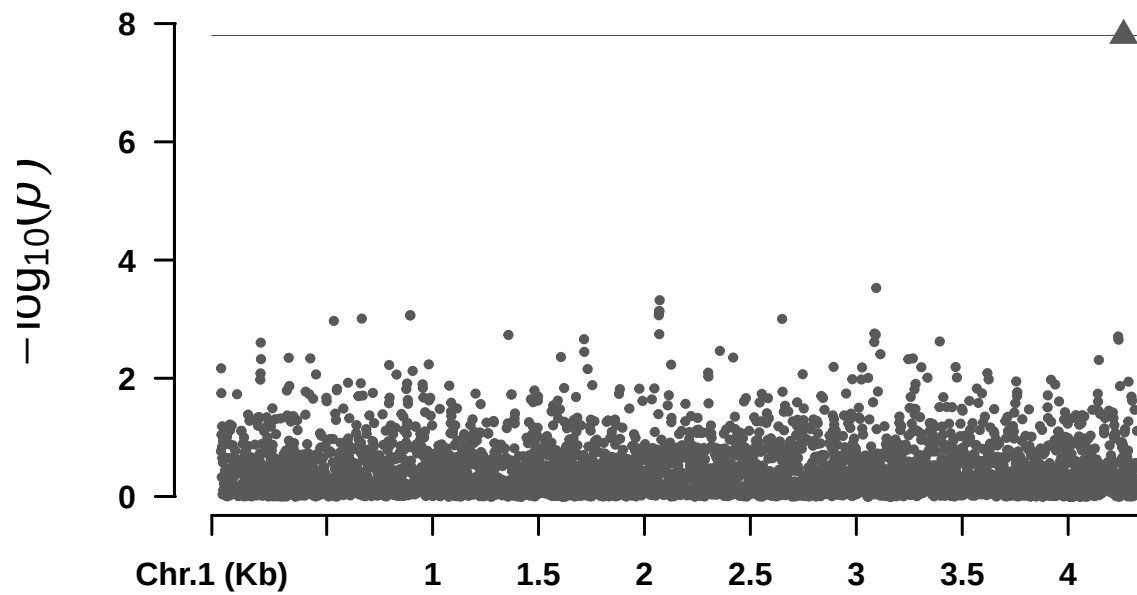
MLMM



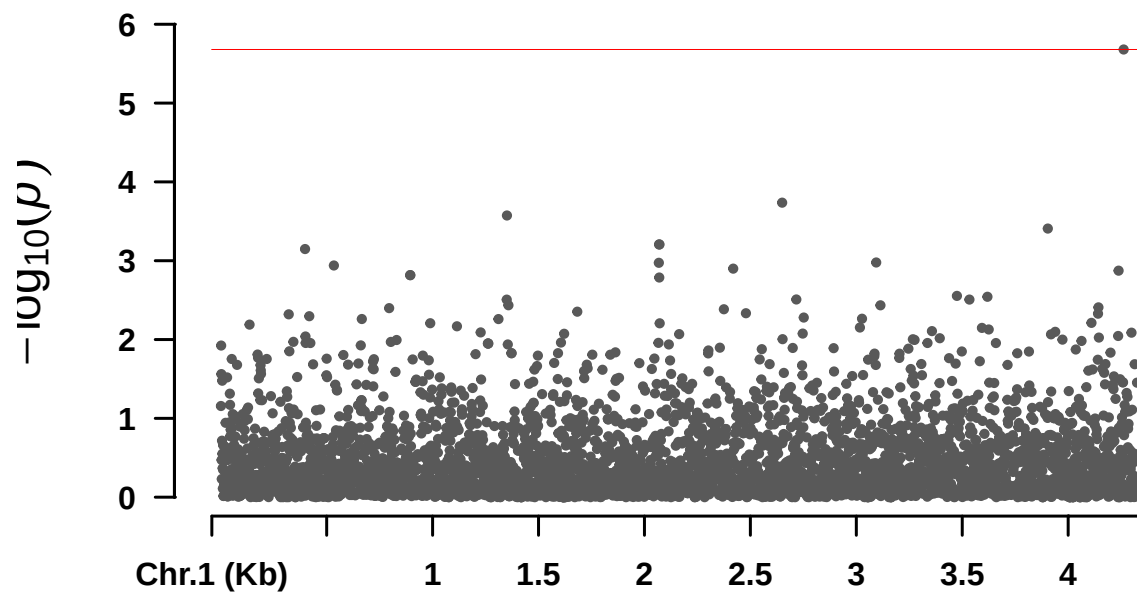
FM

Rectangular Manhattan plotting BLINK.

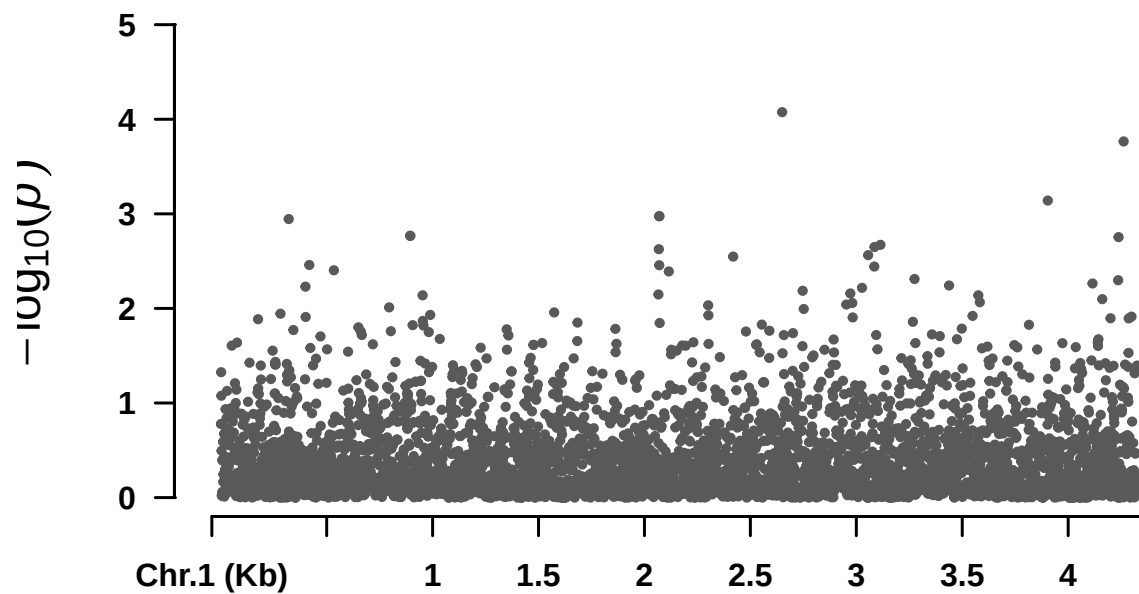
Rectangular Manhattan plotting FarmCPU.



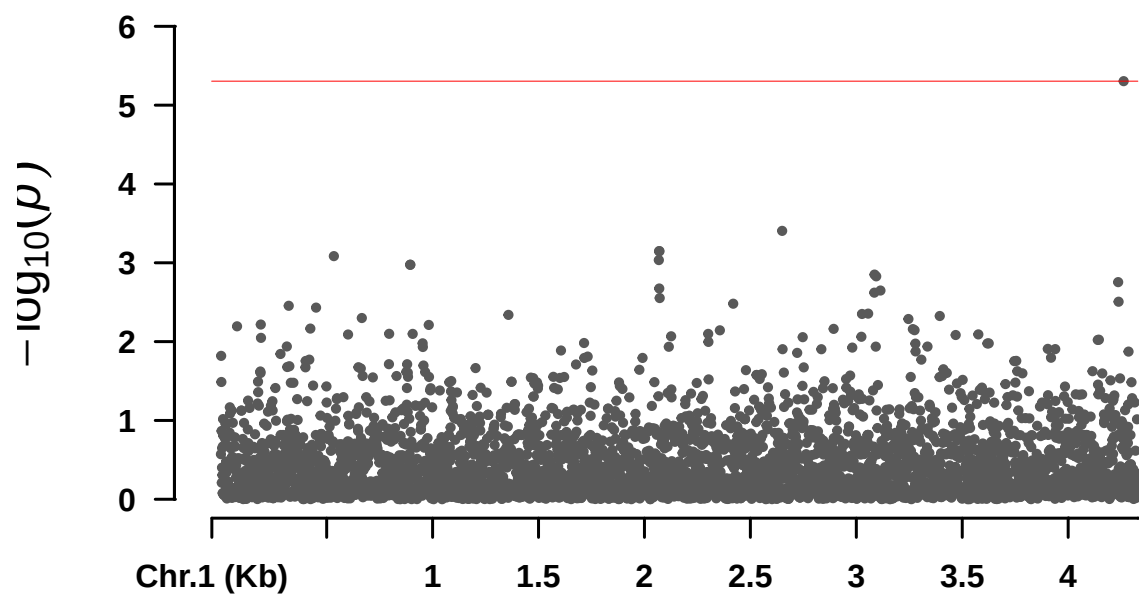
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

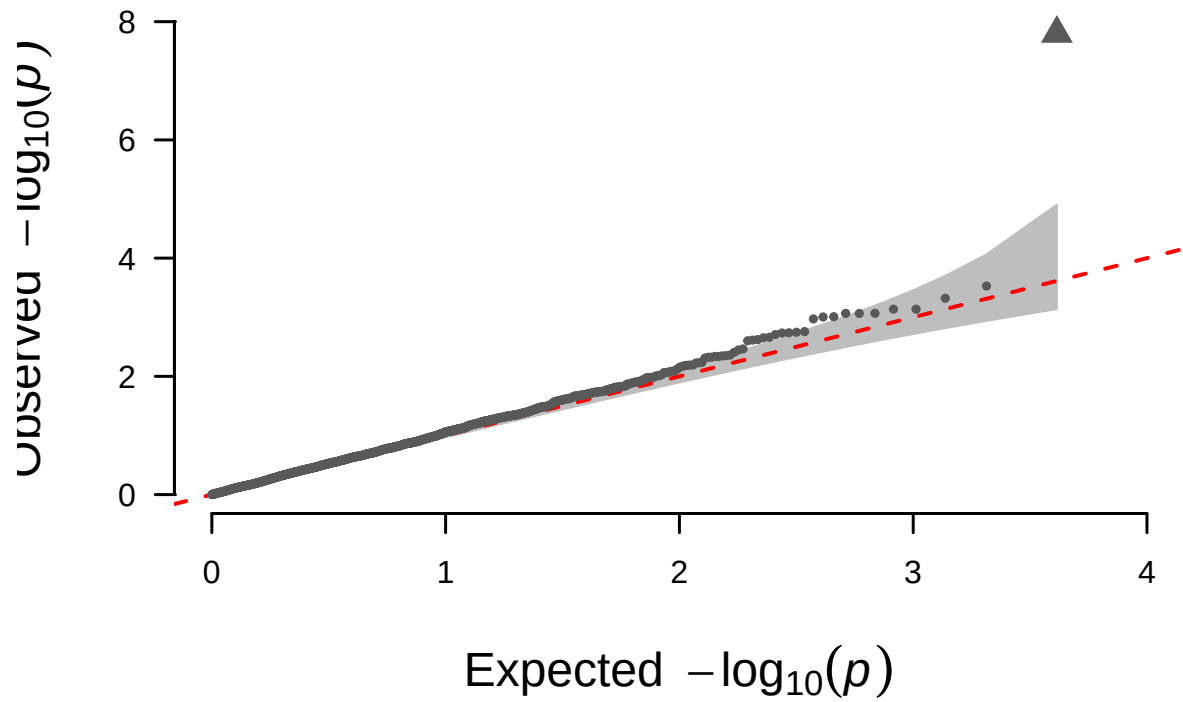


Rectangular Manhattan plotting MLM.



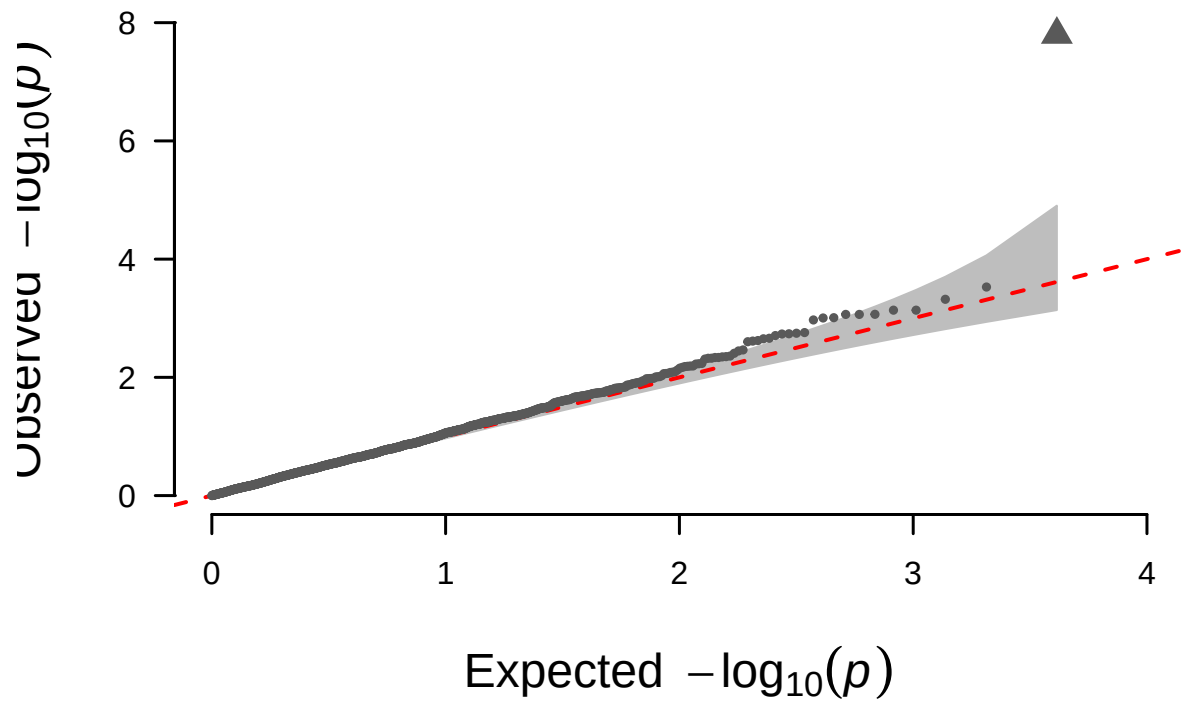
Q-Q plotting BLINK.

BLINK



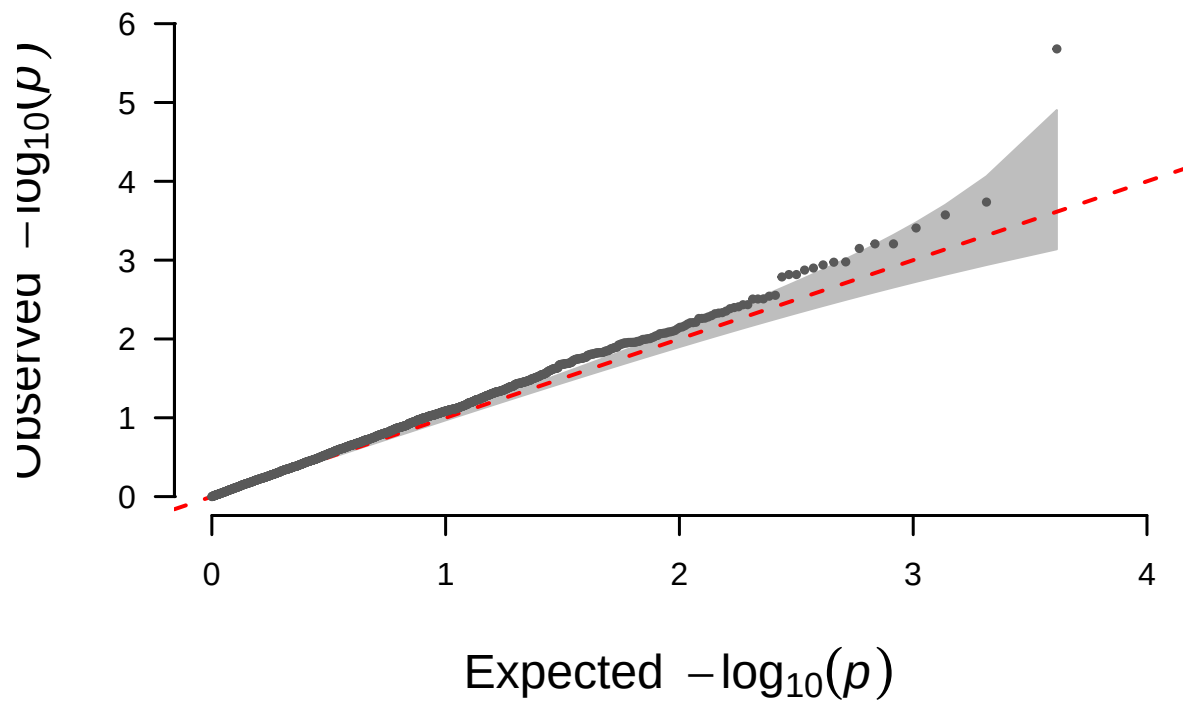
Q-Q plotting FarmCPU.

FarmCPU



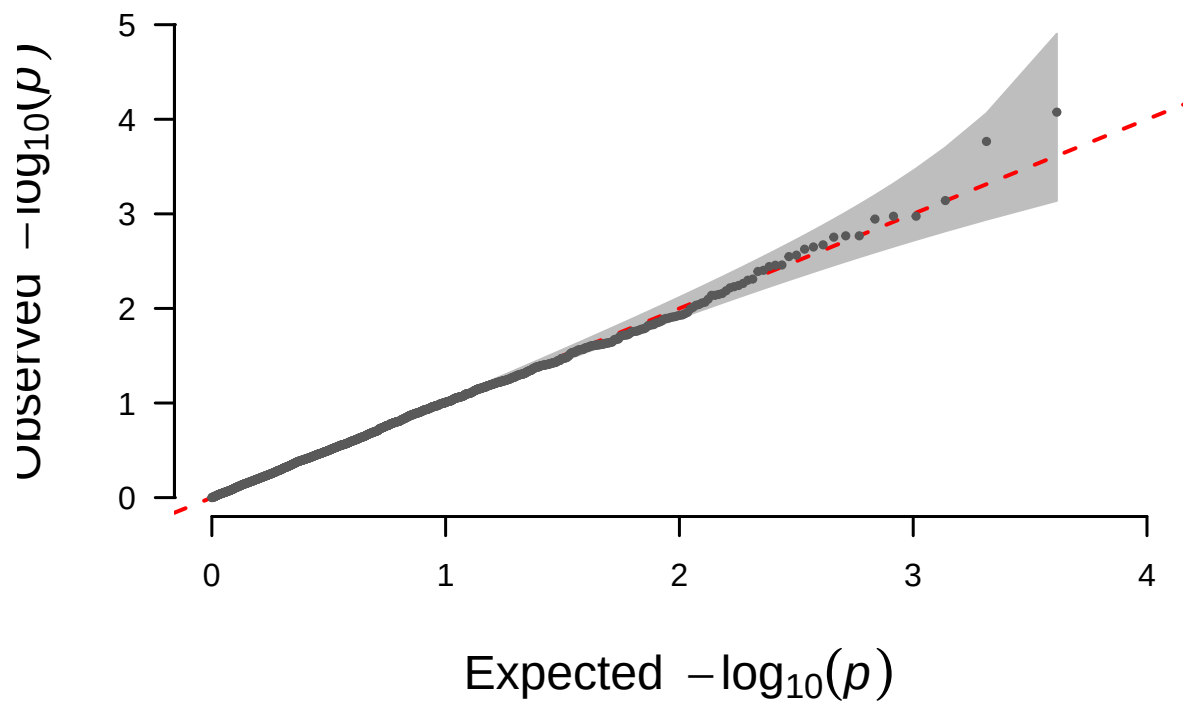
Q-Q plotting GLM.

GLM



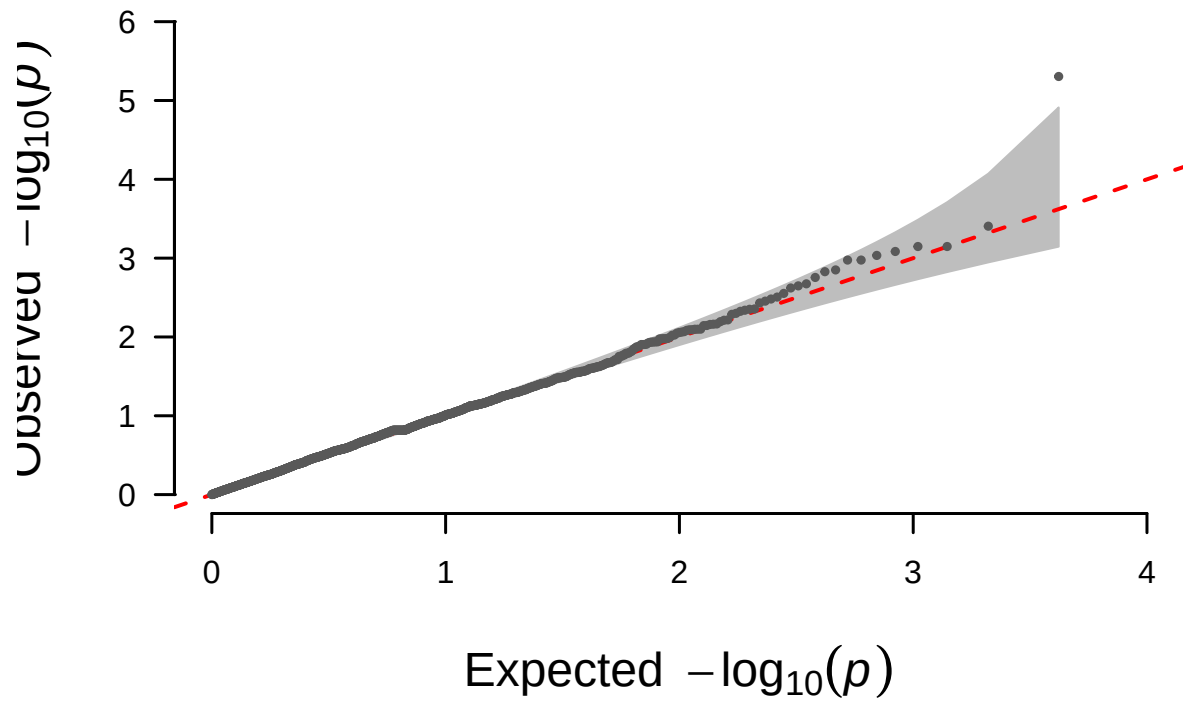
Q-Q plotting MLM.

MLM



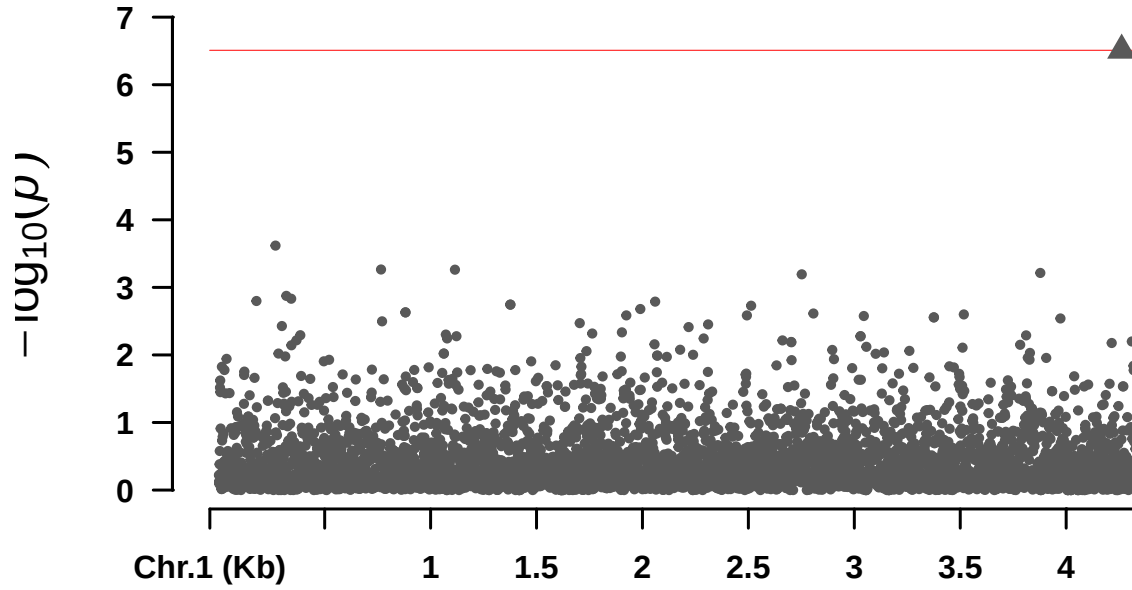
Q-Q plotting MLMM.

MLMM

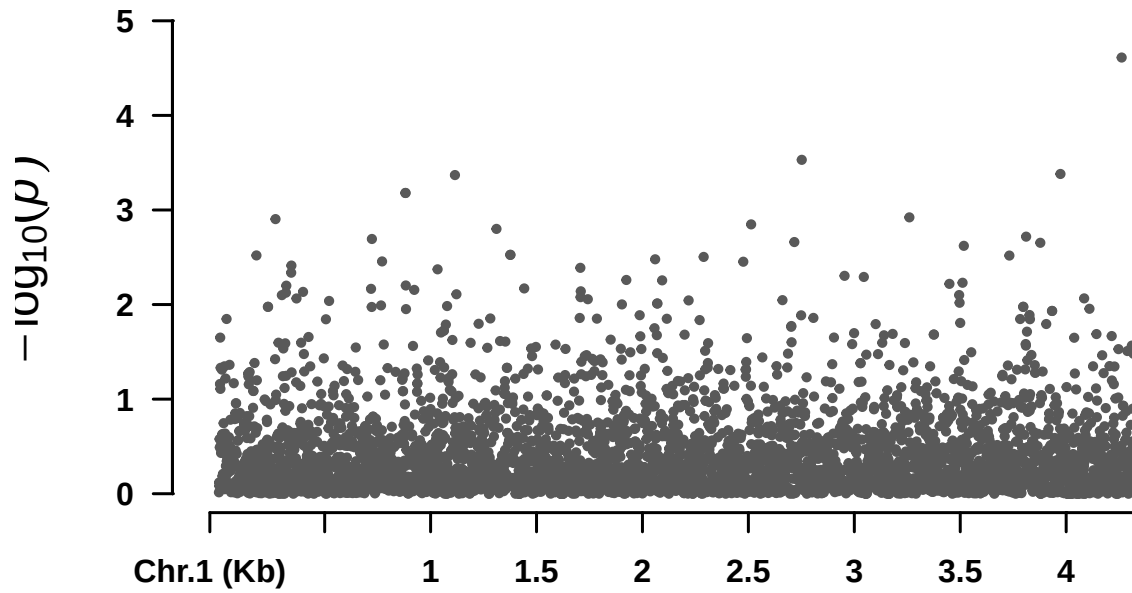


NW

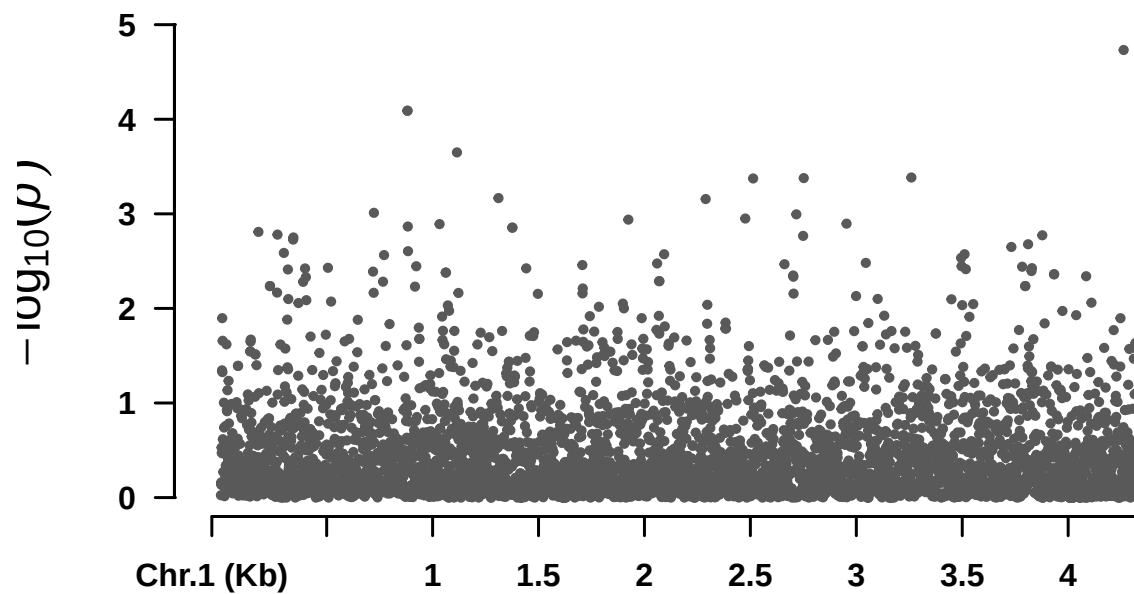
Rectangular Manhattan plotting BLINK.



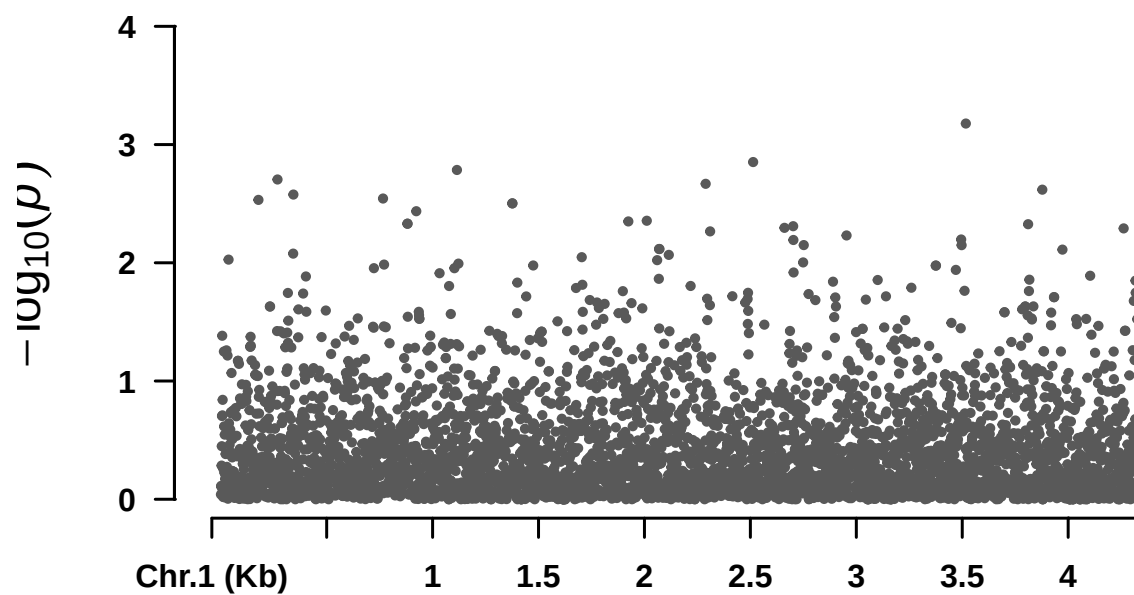
Rectangular Manhattan plotting FarmCPU.



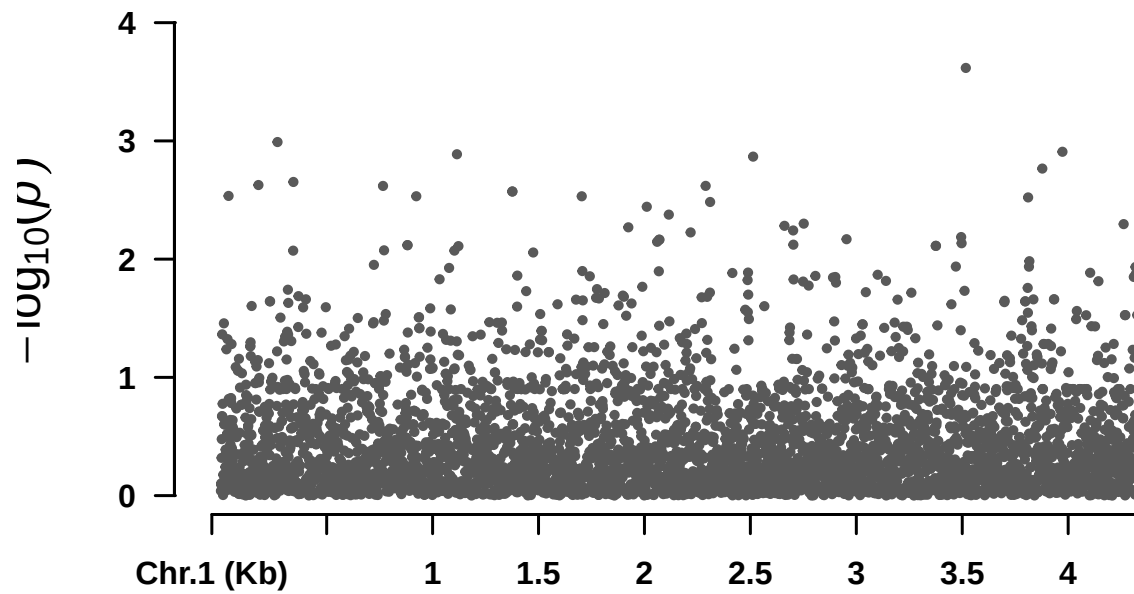
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

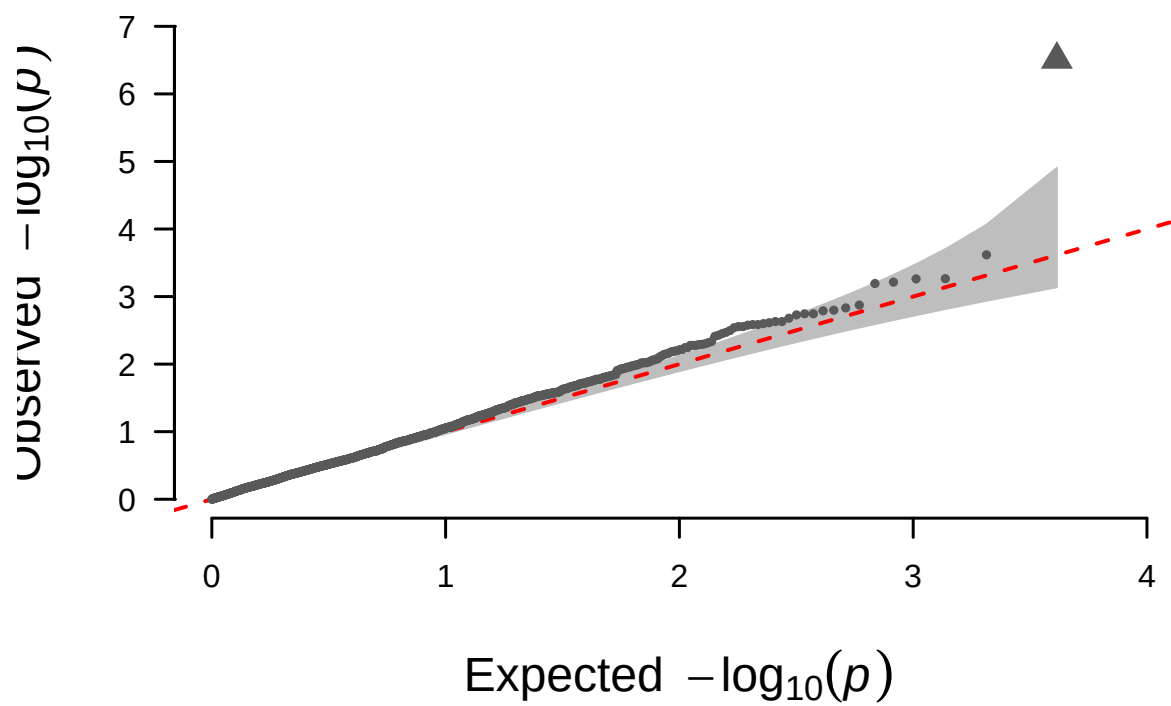


Rectangular Manhattan plotting MLMM.



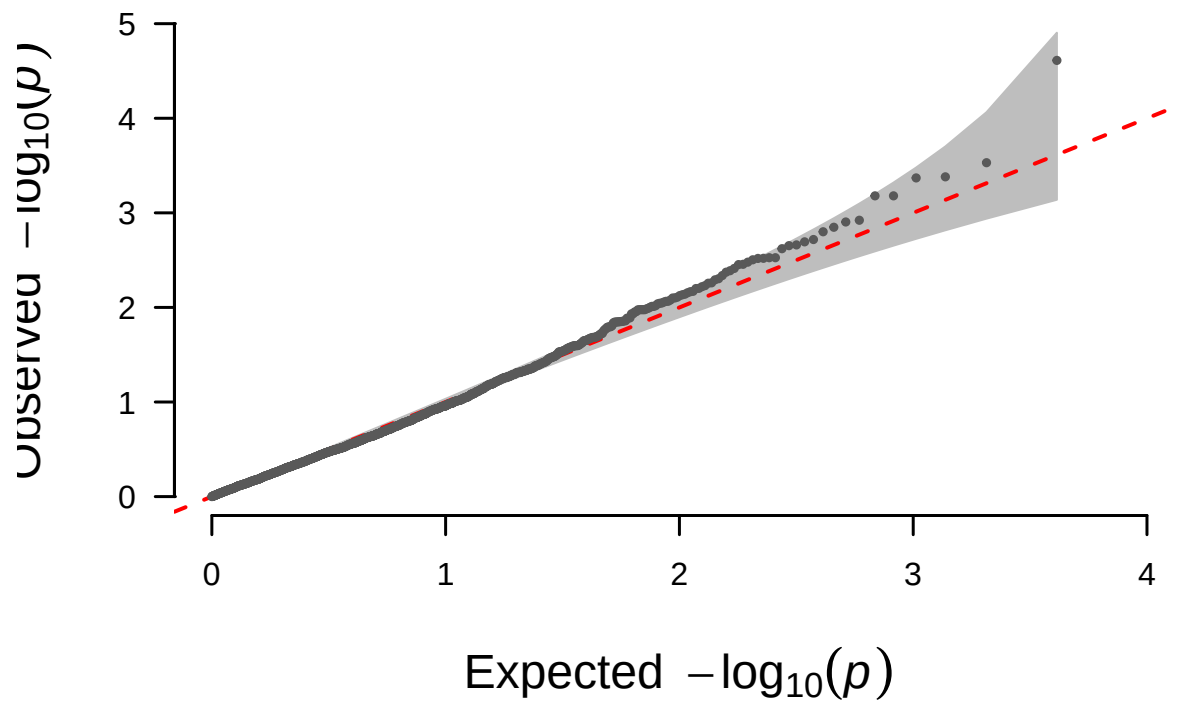
Q-Q plotting BLINK.

BLINK



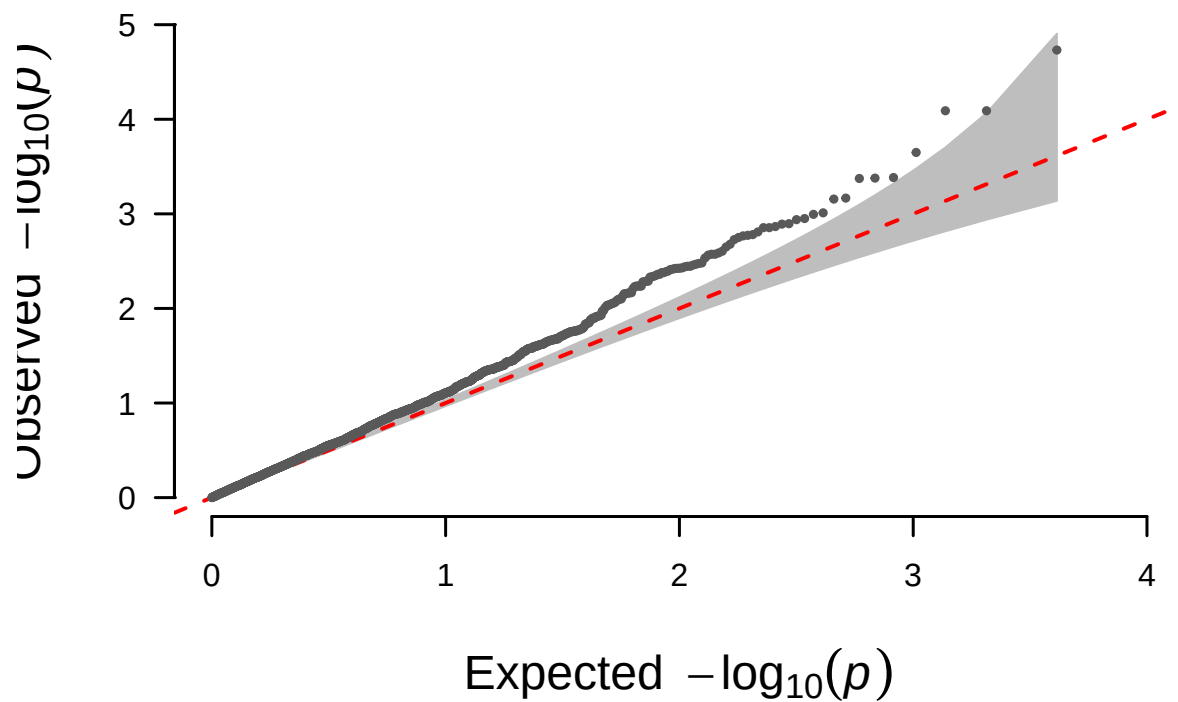
Q-Q plotting FarmCPU.

FarmCPU



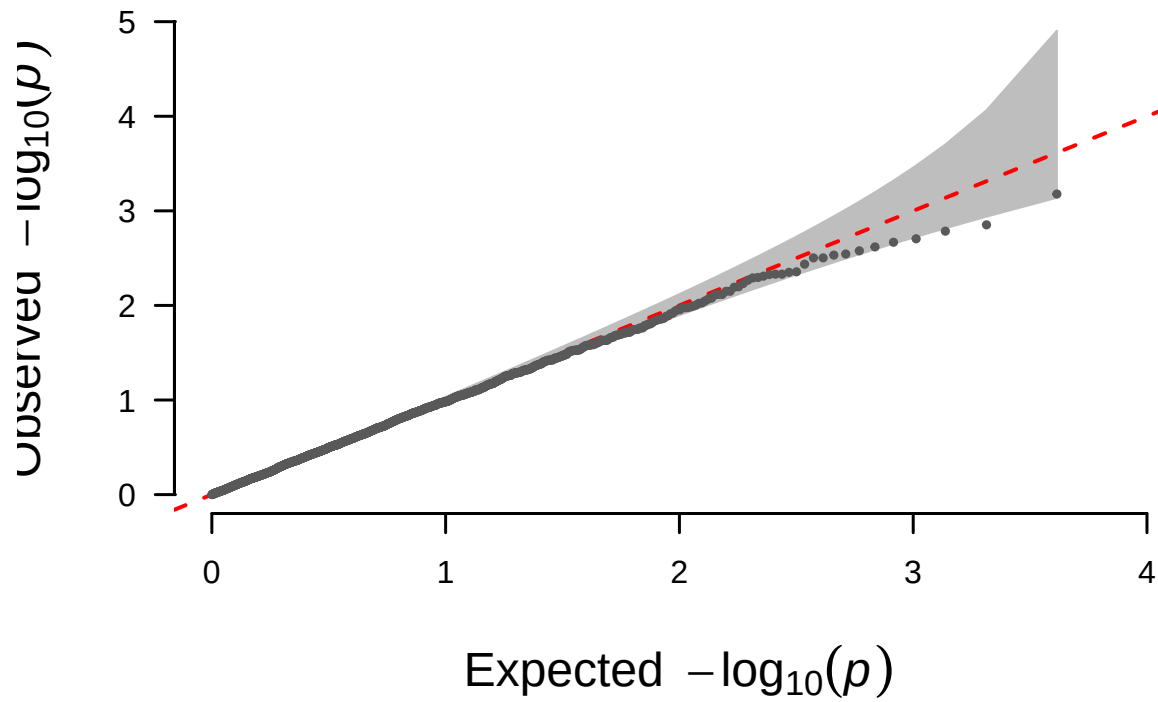
Q-Q plotting GLM.

GLM



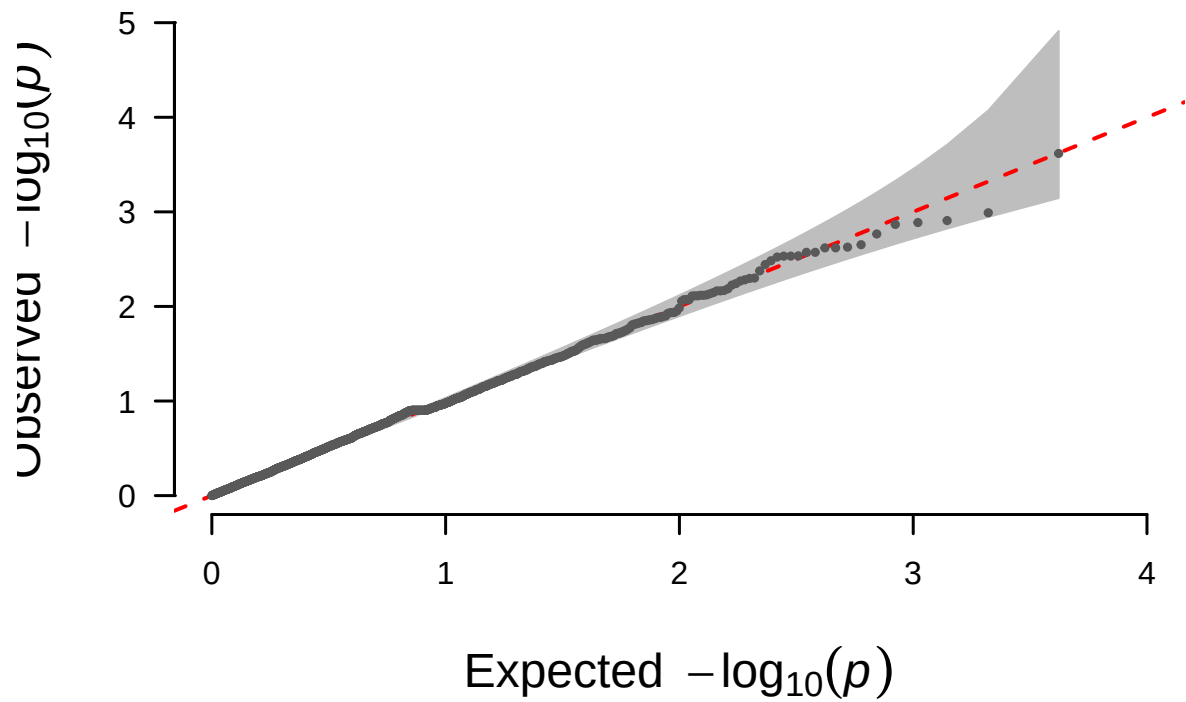
Q-Q plotting MLM.

MLM



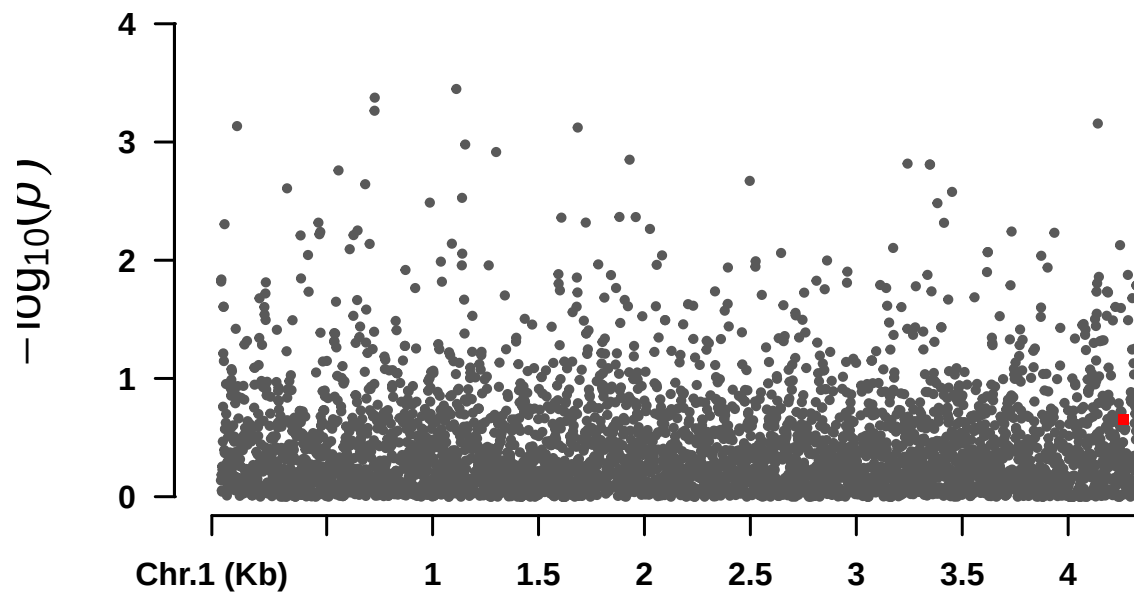
Q-Q plotting MLMM.

MLMM

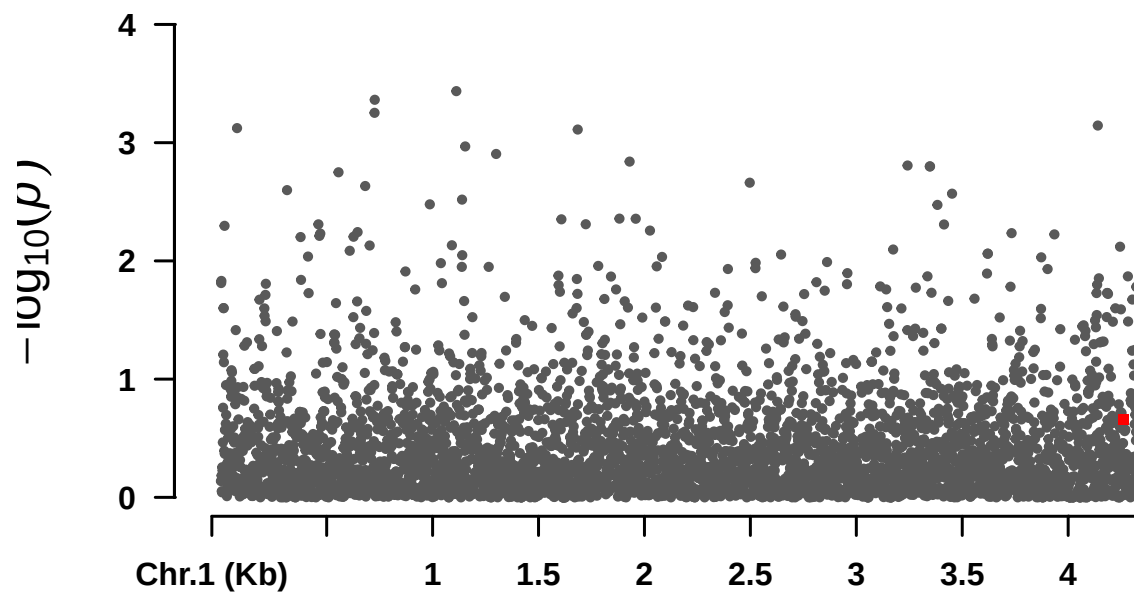


OC

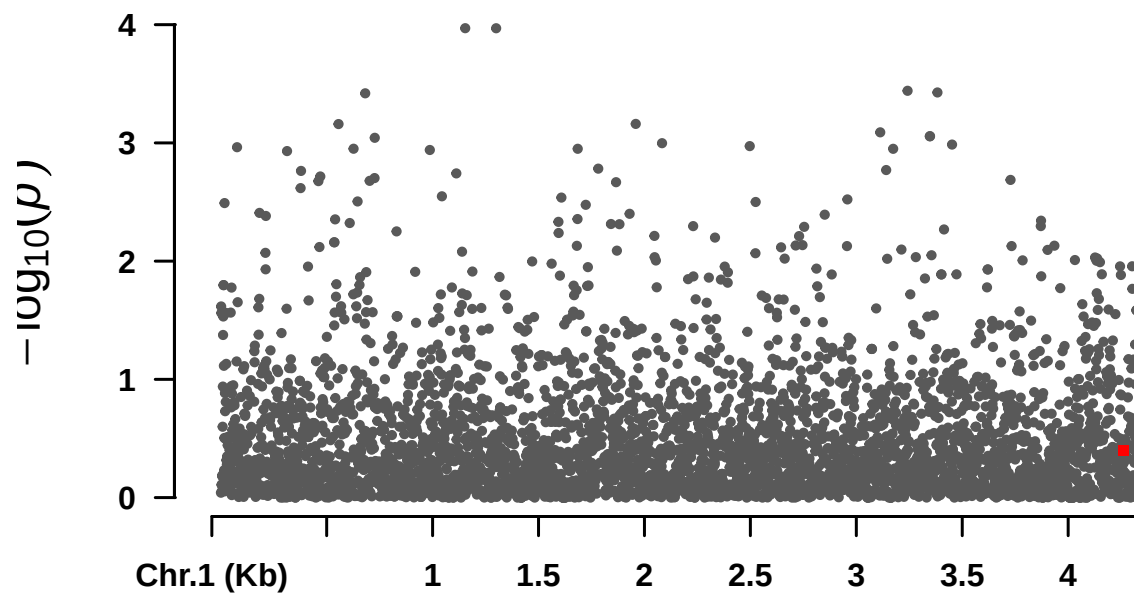
Rectangular Manhattan plotting BLINK.



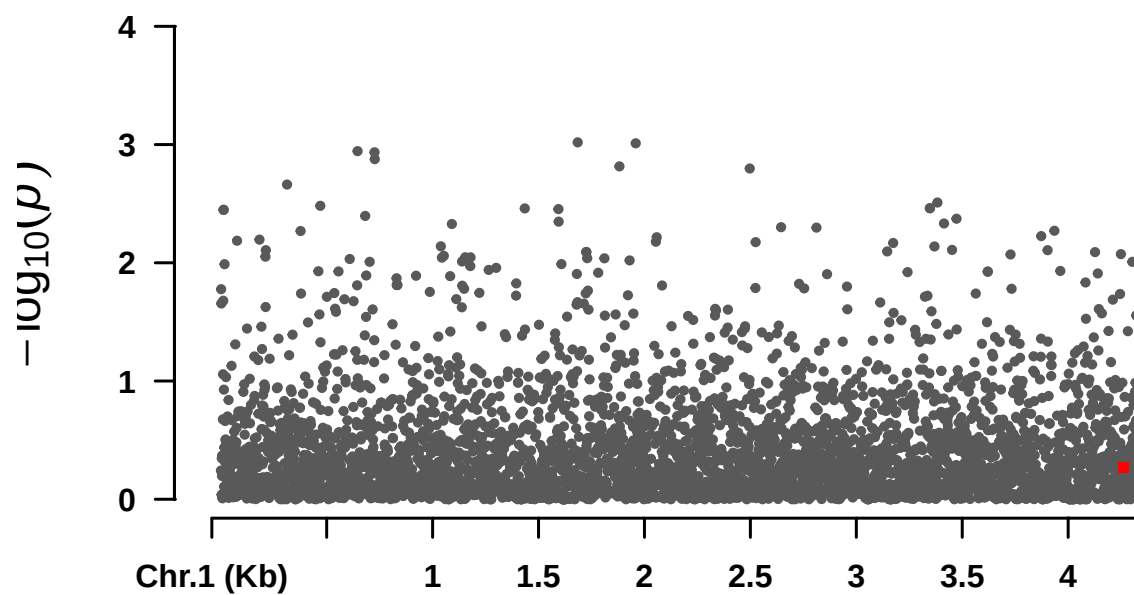
Rectangular Manhattan plotting FarmCPU.



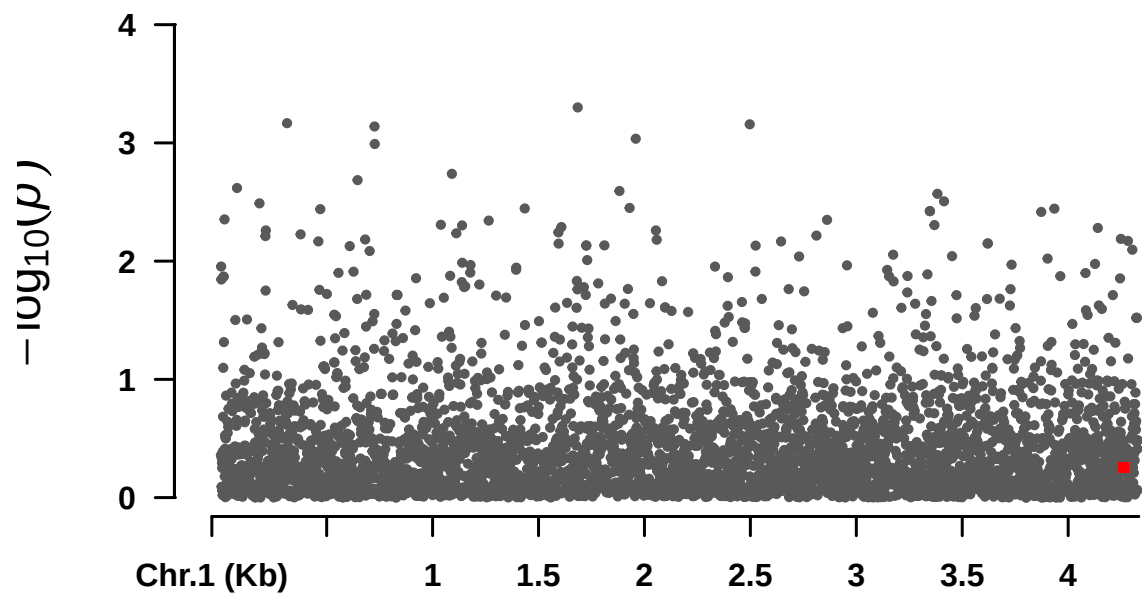
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

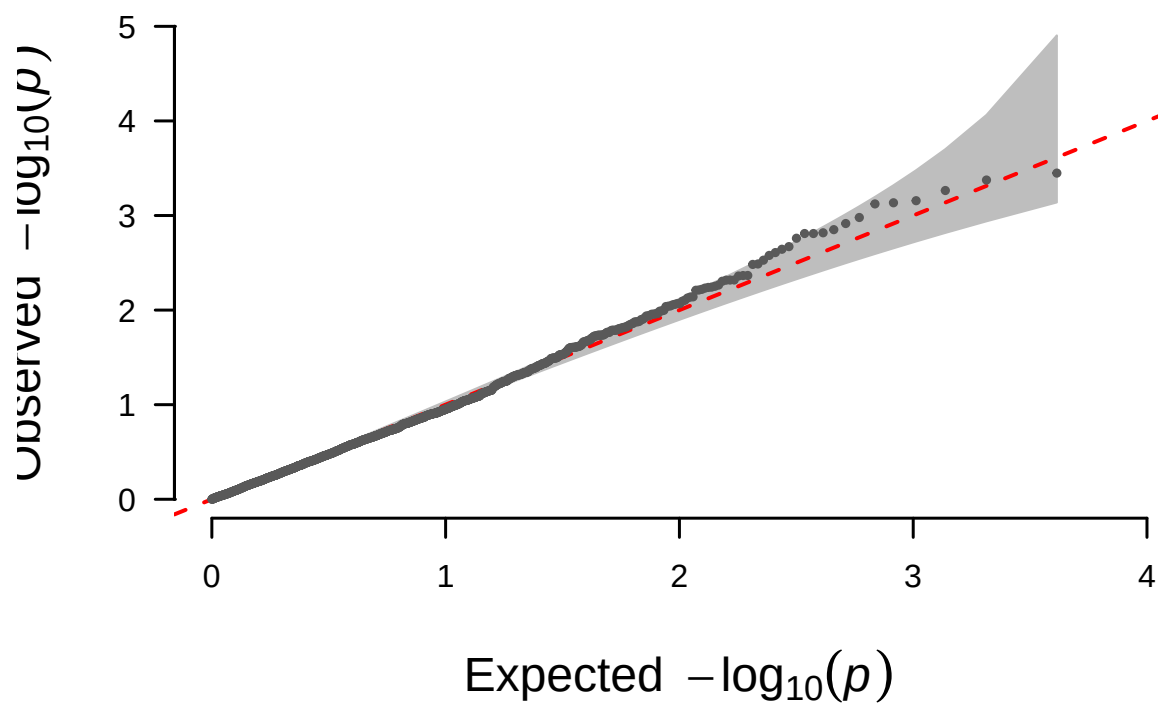


Rectangular Manhattan plotting MLMM.



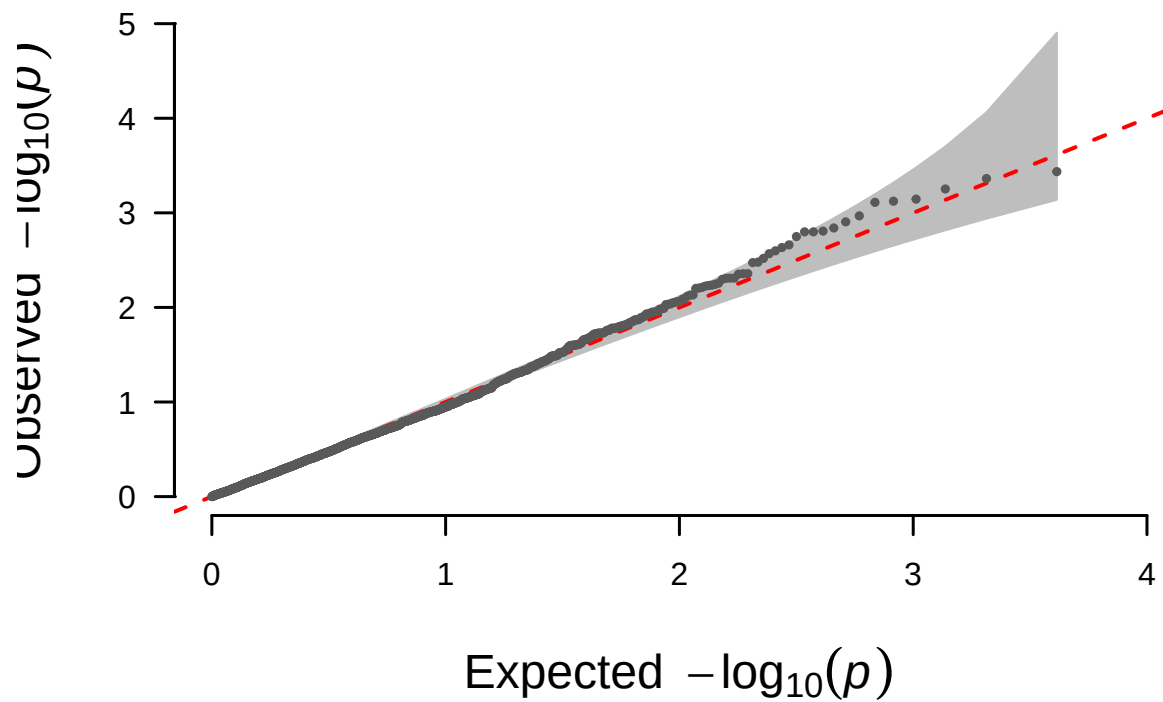
Q-Q plotting BLINK.

BLINK



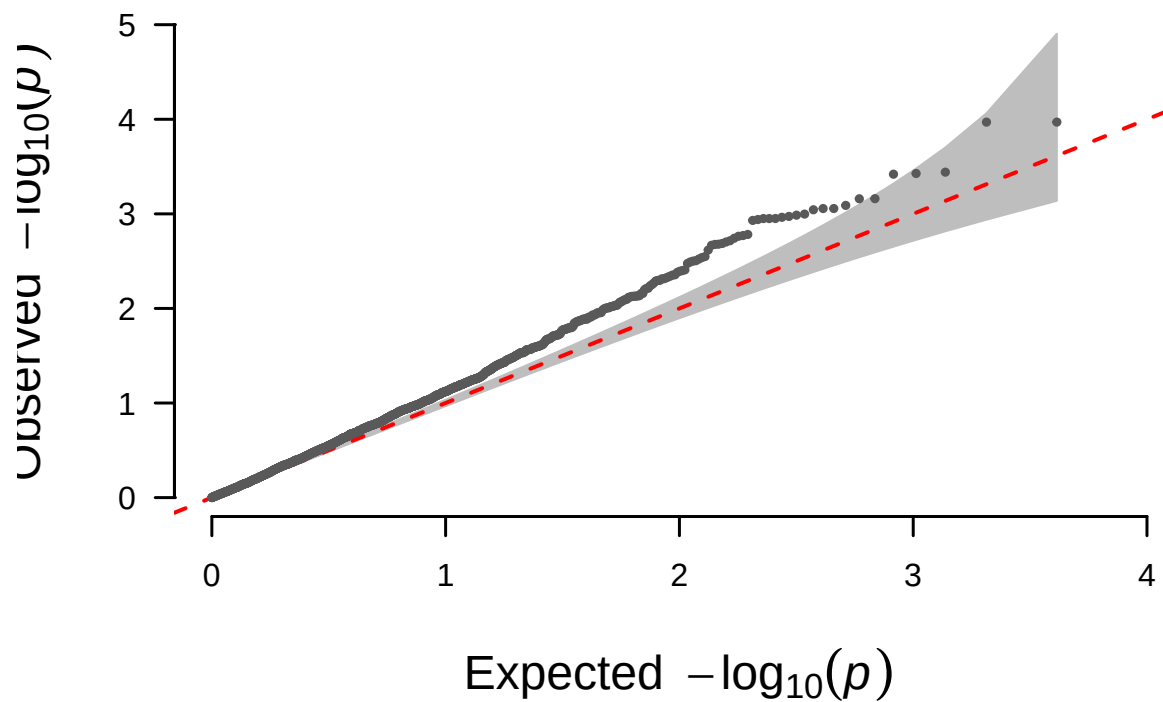
Q-Q plotting FarmCPU.

FarmCPU



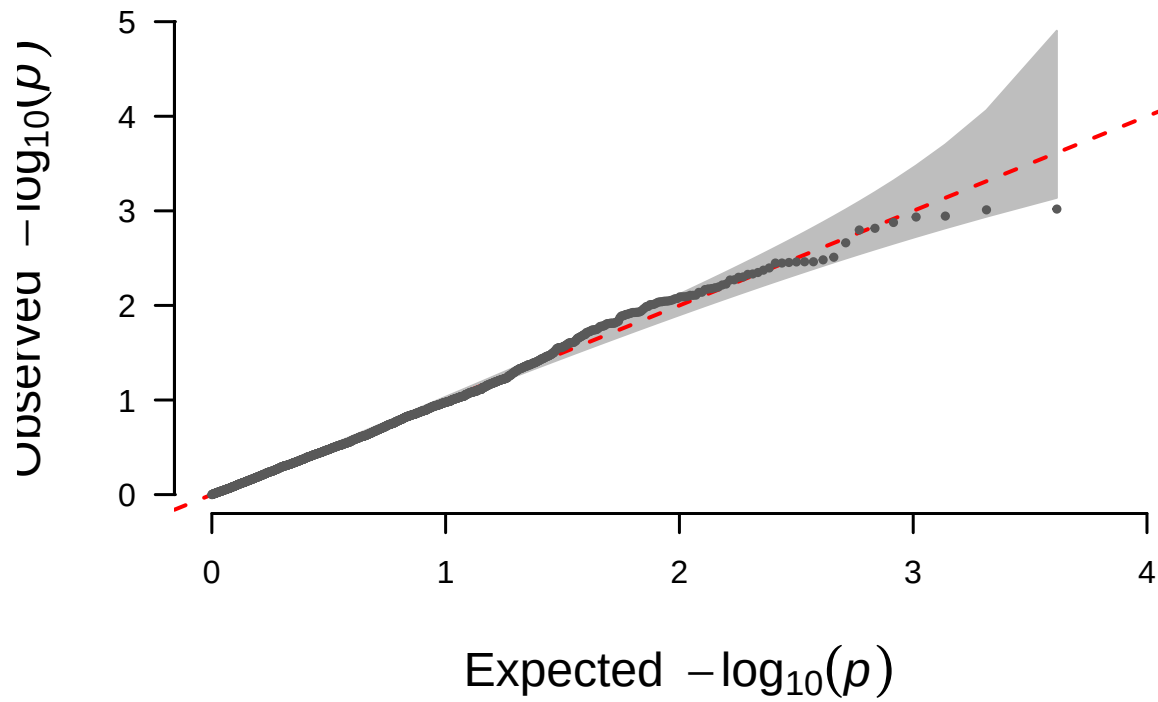
Q-Q plotting GLM.

GLM



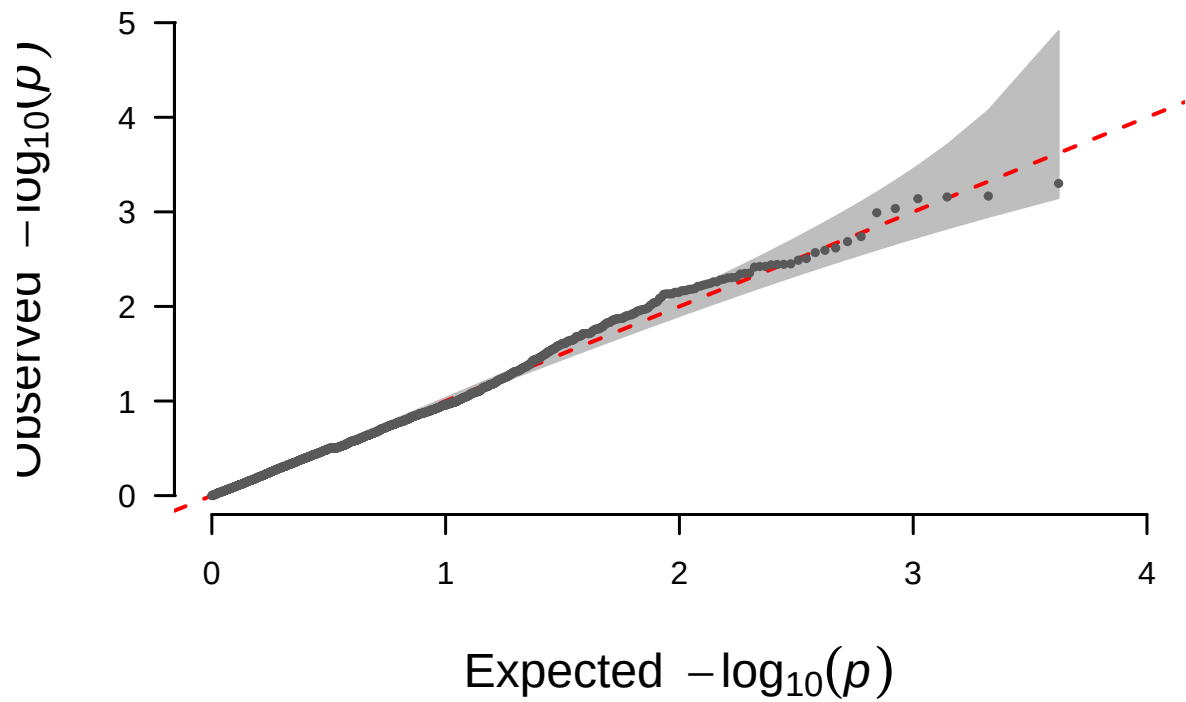
Q-Q plotting MLM.

MLM



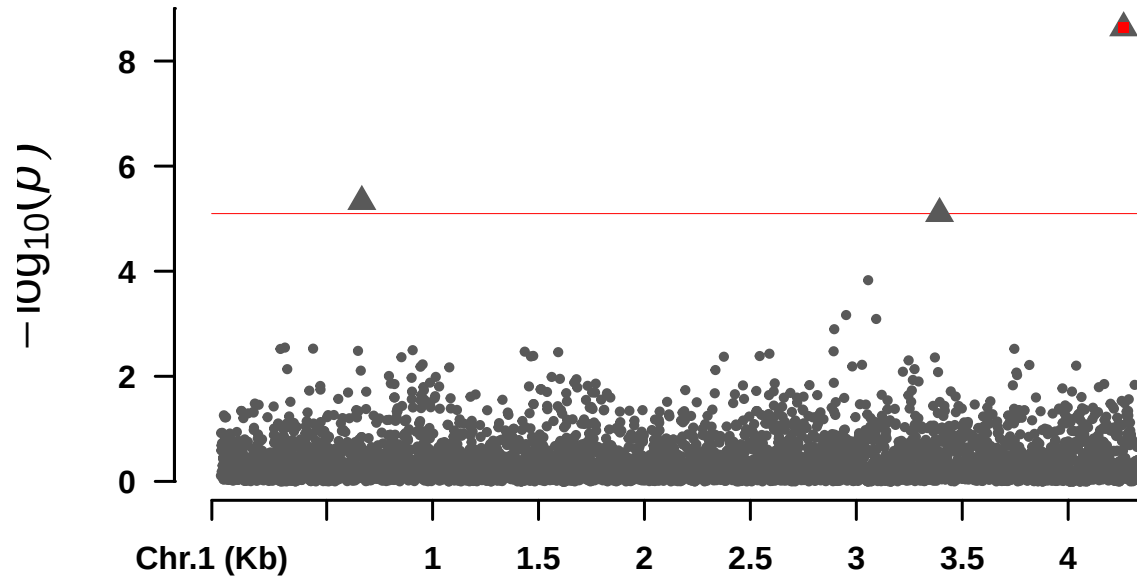
Q-Q plotting MLMM.

MLMM

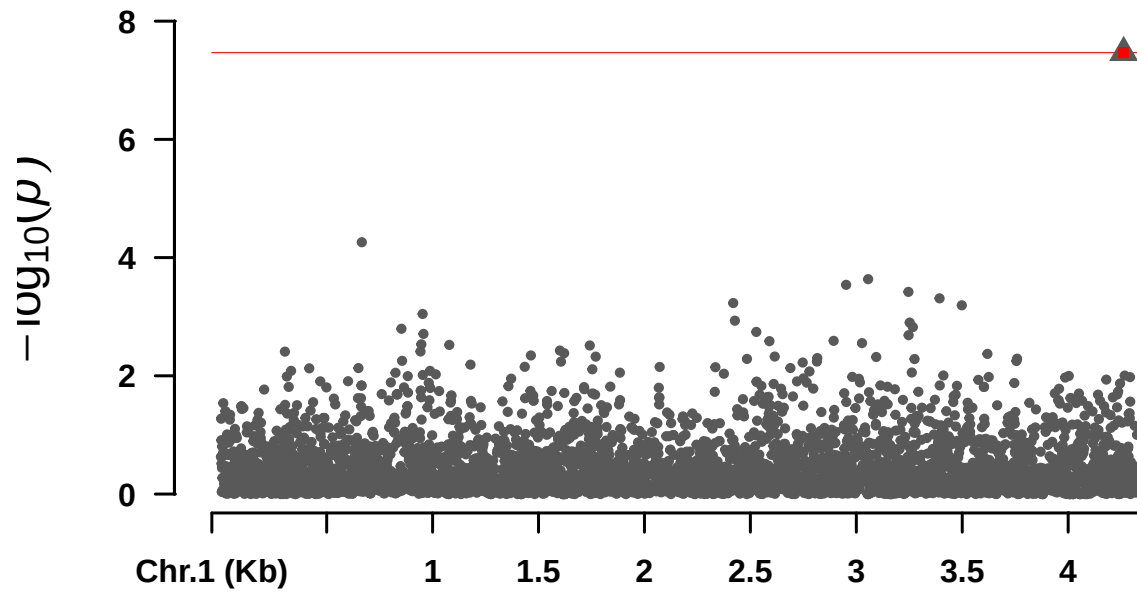


HDM

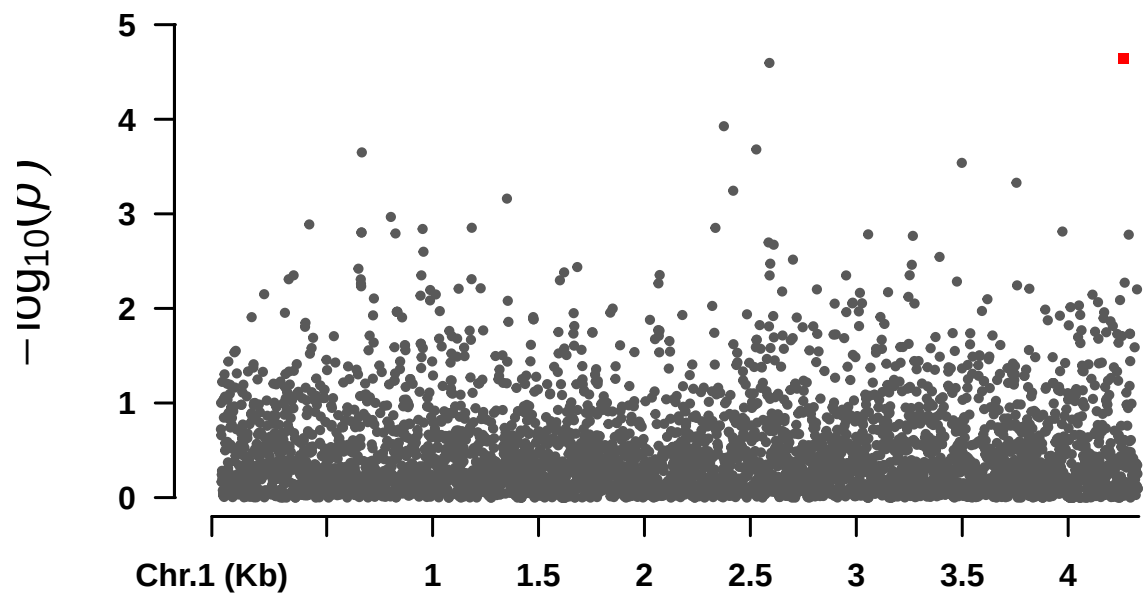
Rectangular Manhattan plotting BLINK.



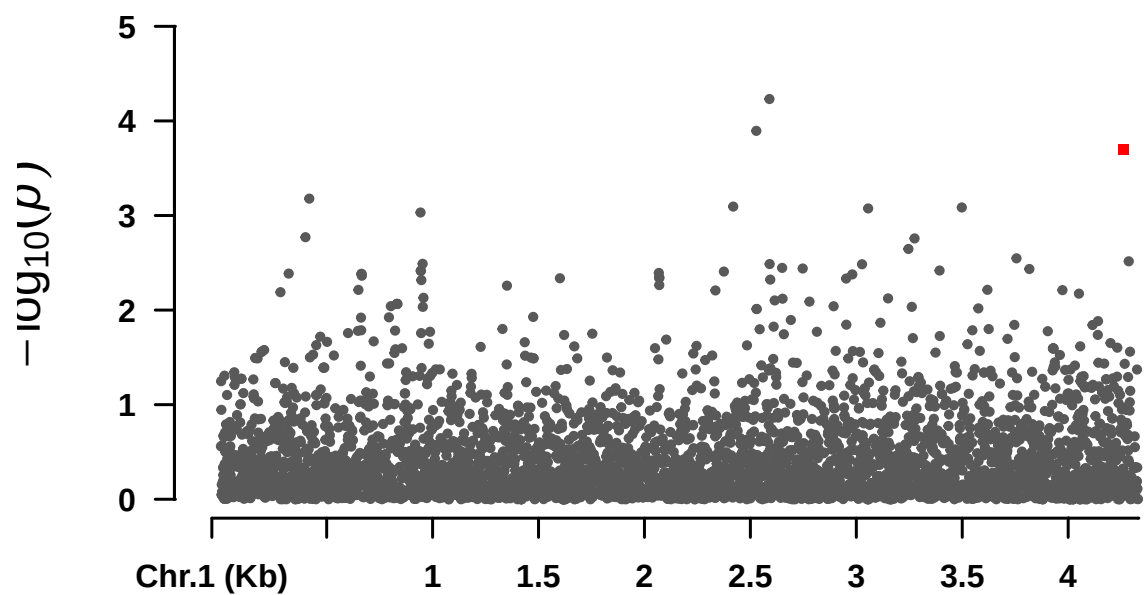
Rectangular Manhattan plotting FarmCPU.



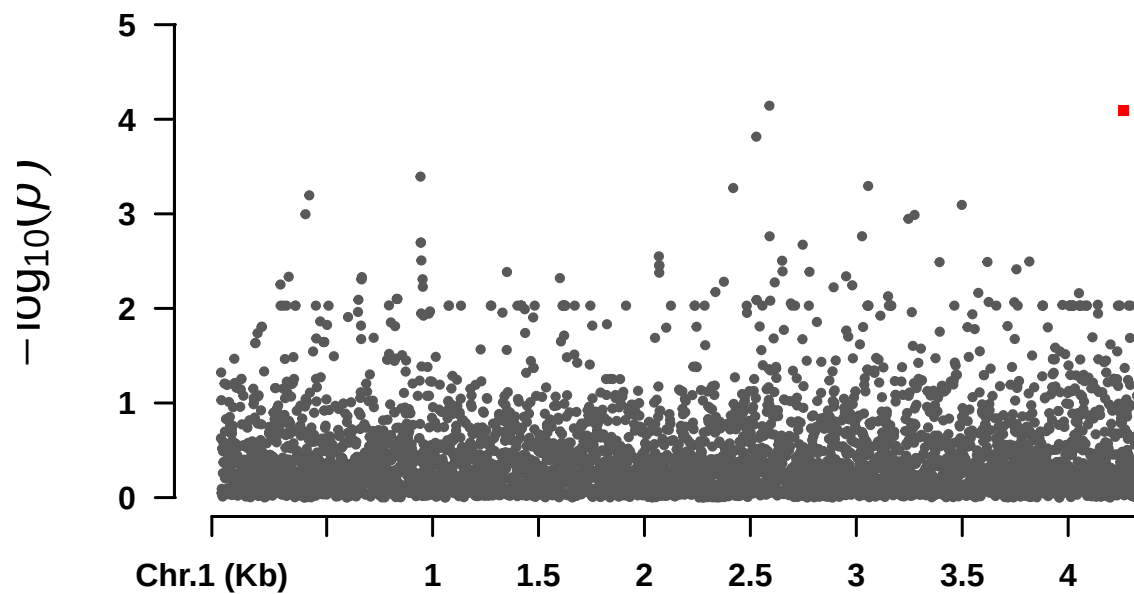
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

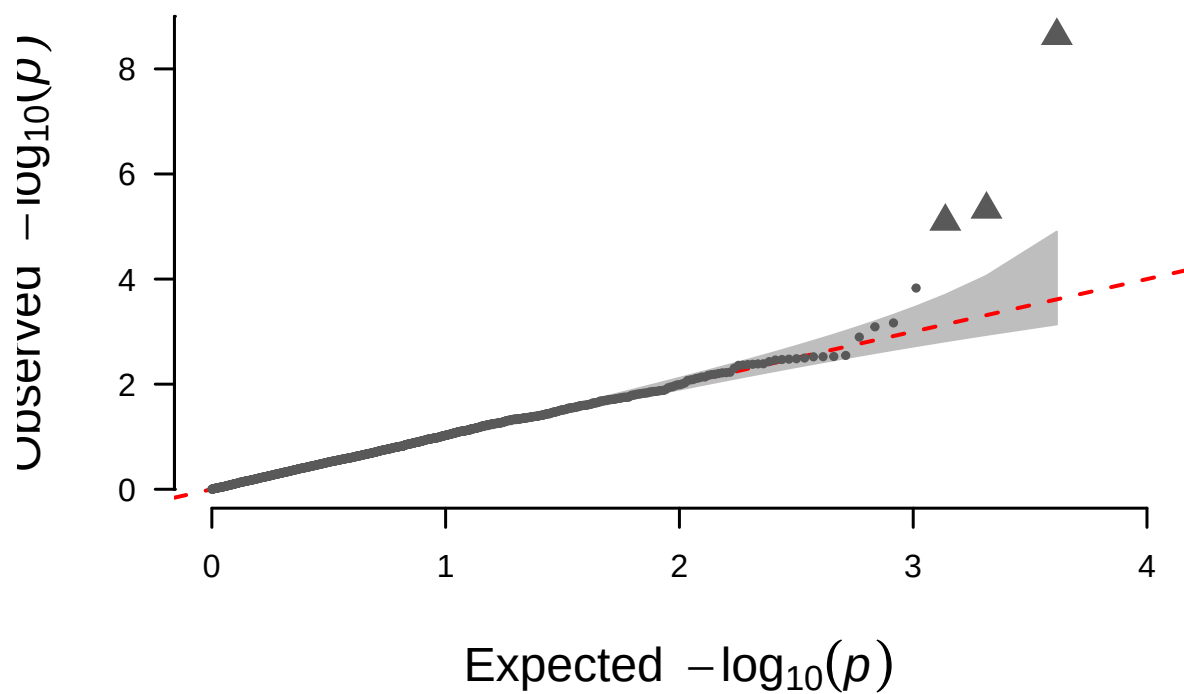


Rectangular Manhattan plotting MLMM.



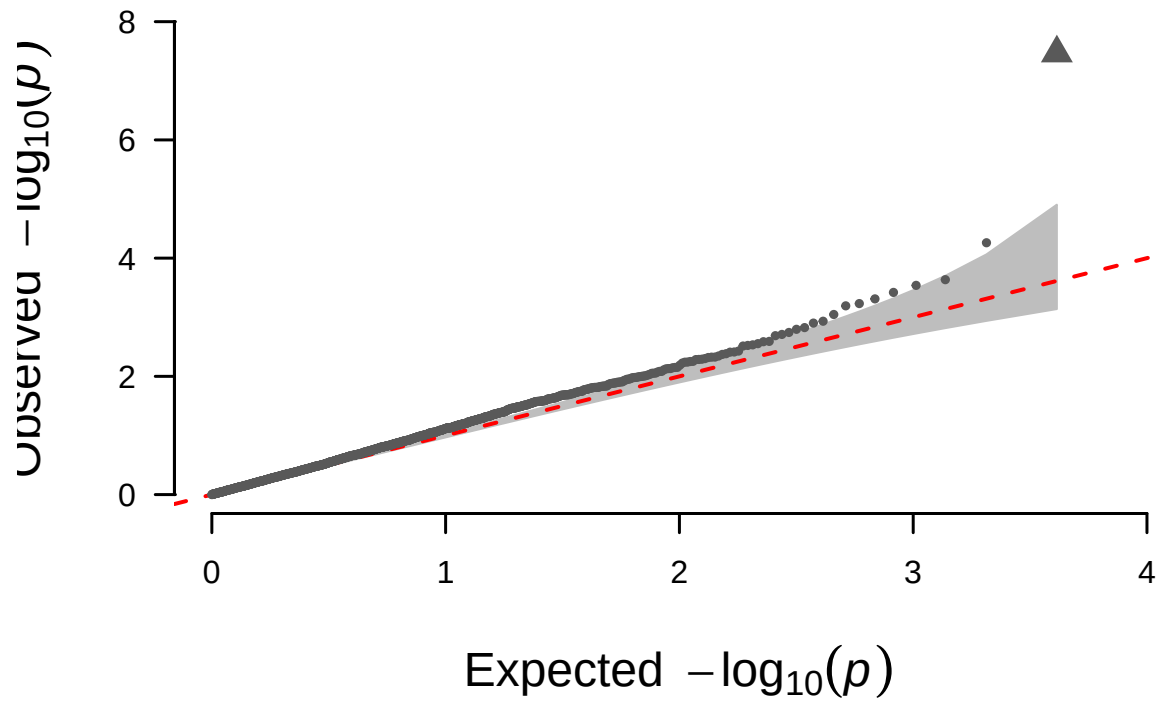
Q-Q plotting BLINK.

BLINK



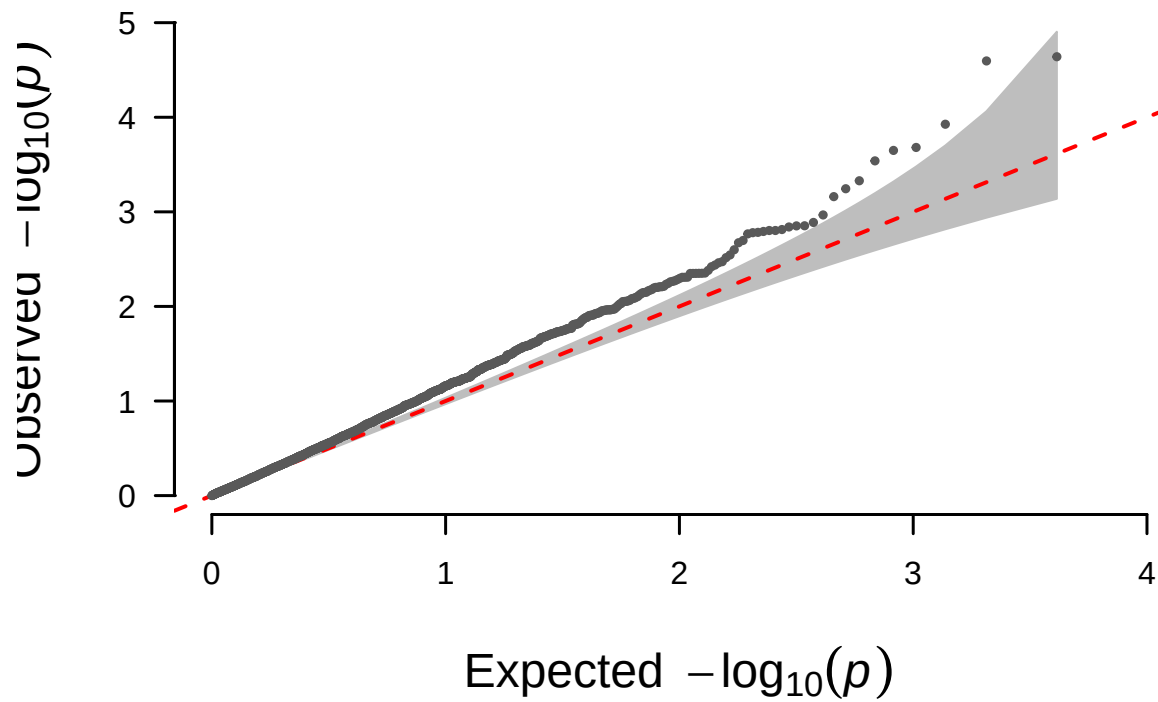
Q-Q plotting FarmCPU.

FarmCPU



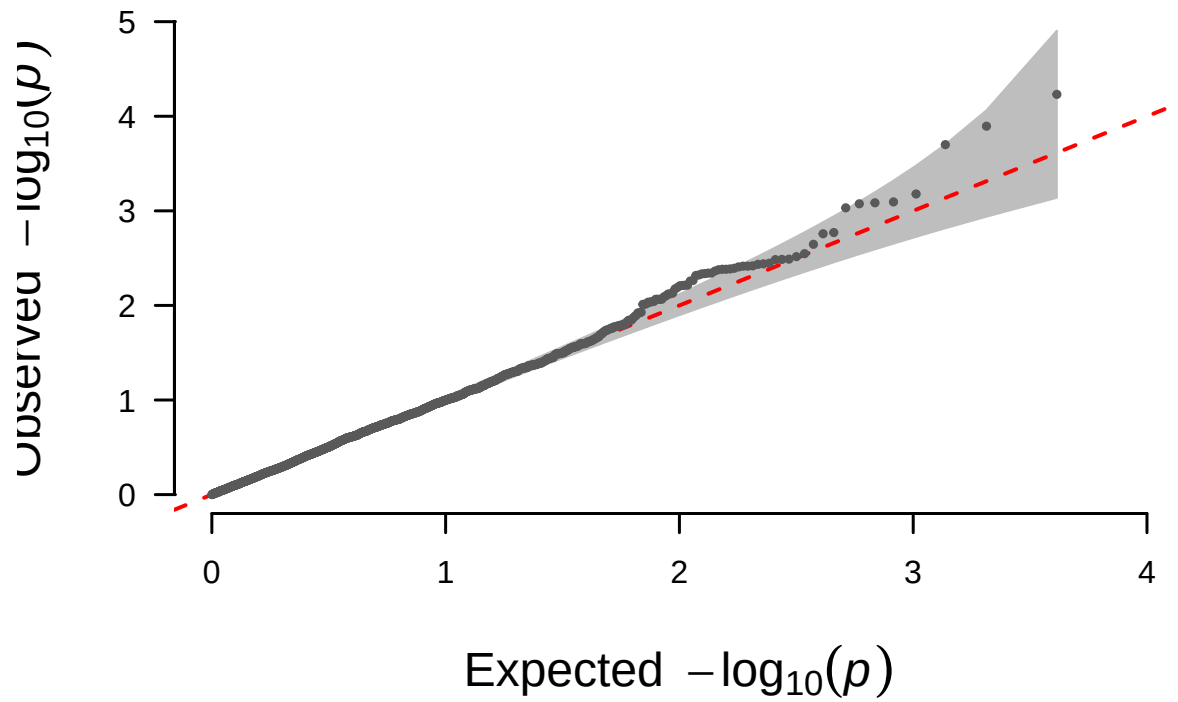
Q-Q plotting GLM.

GLM



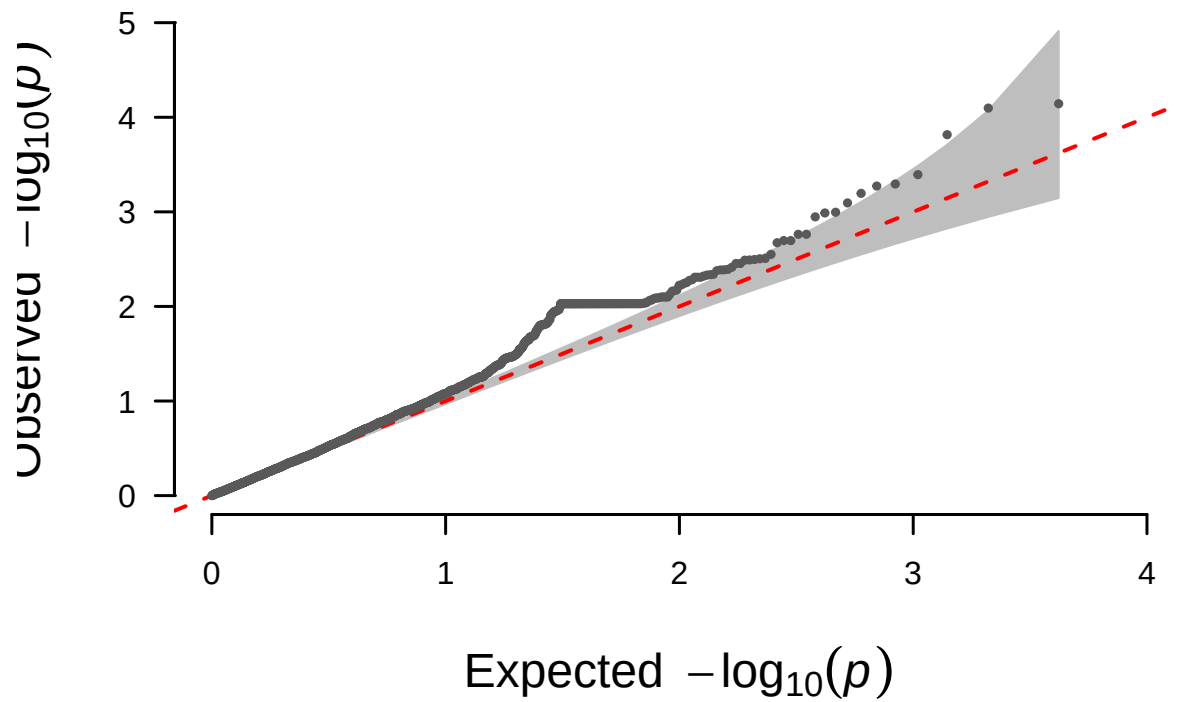
Q-Q plotting MLM.

MLM



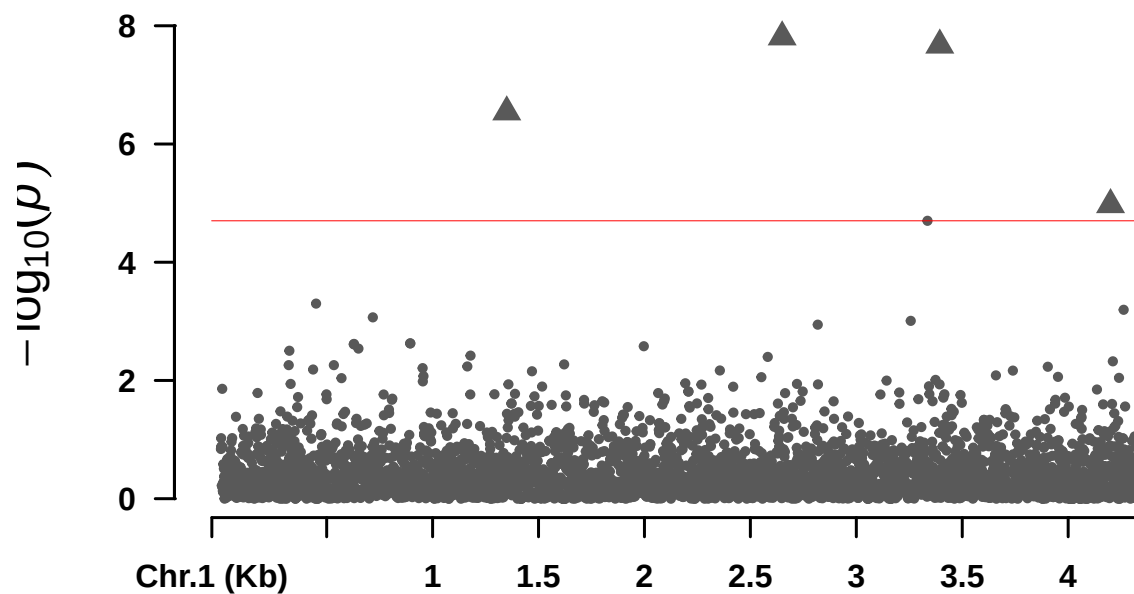
Q-Q plotting MLMM.

MLMM

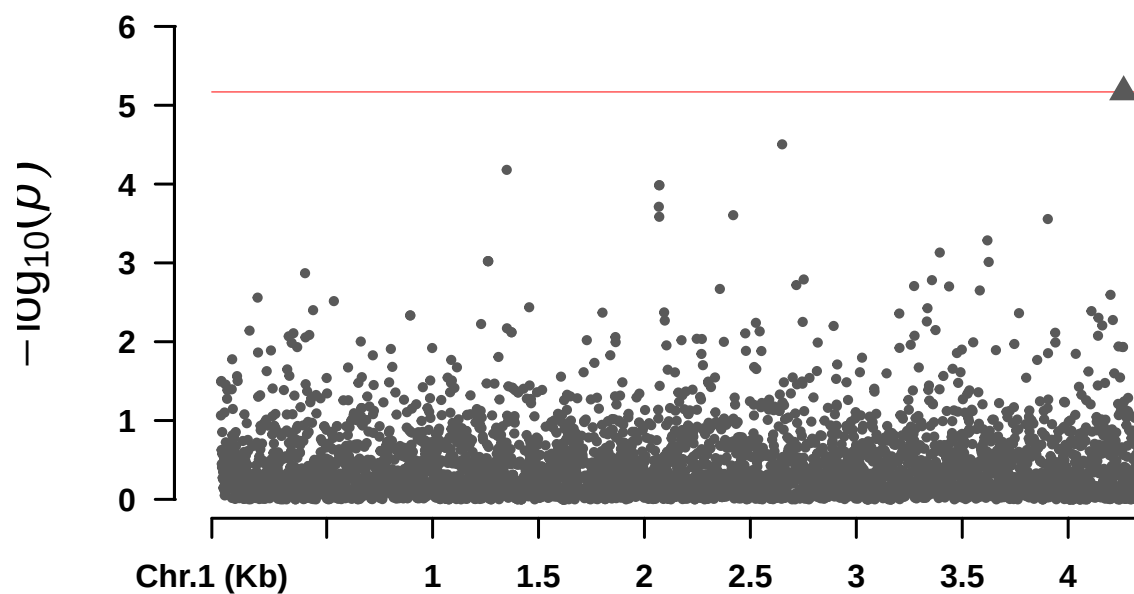


PDM

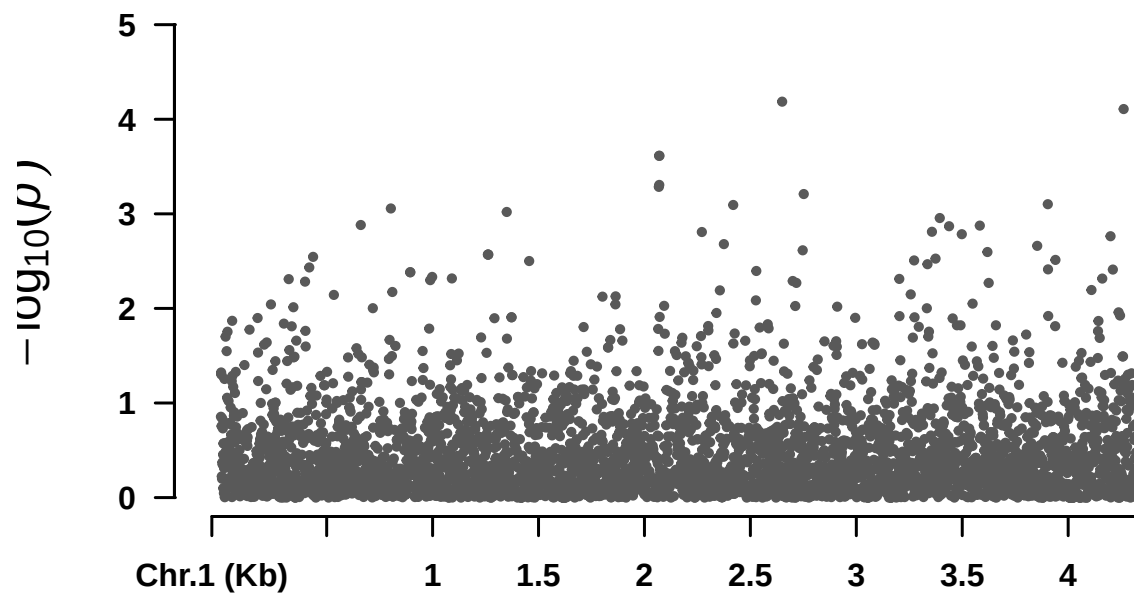
Rectangular Manhattan plotting BLINK.



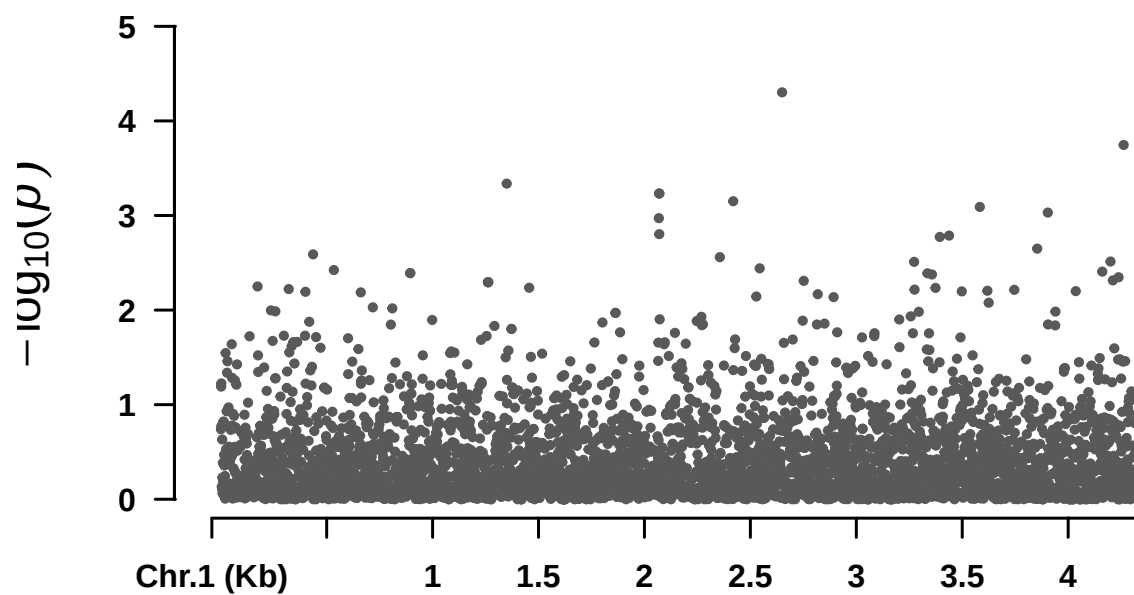
Rectangular Manhattan plotting FarmCPU.



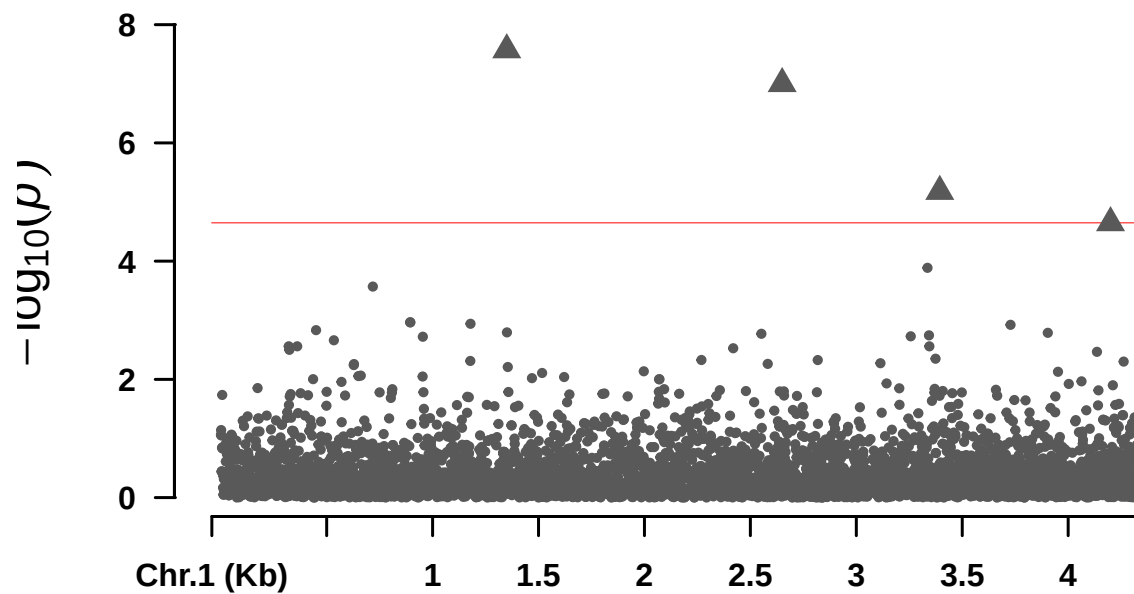
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

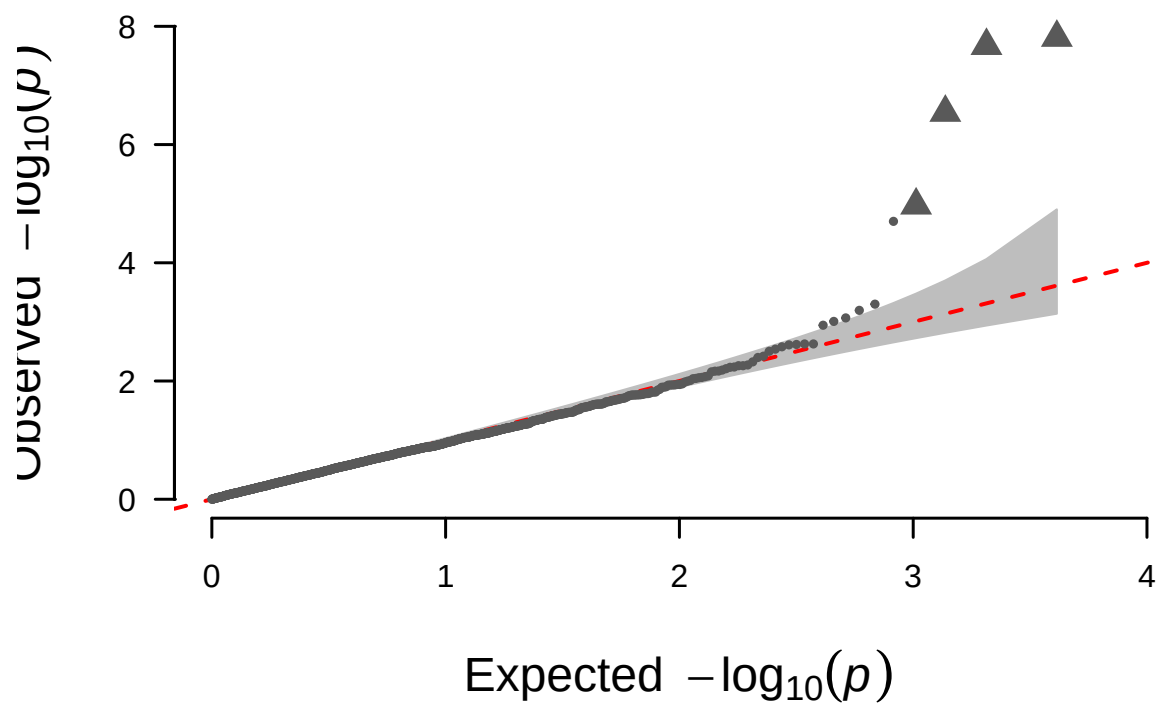


Rectangular Manhattan plotting MLMM.



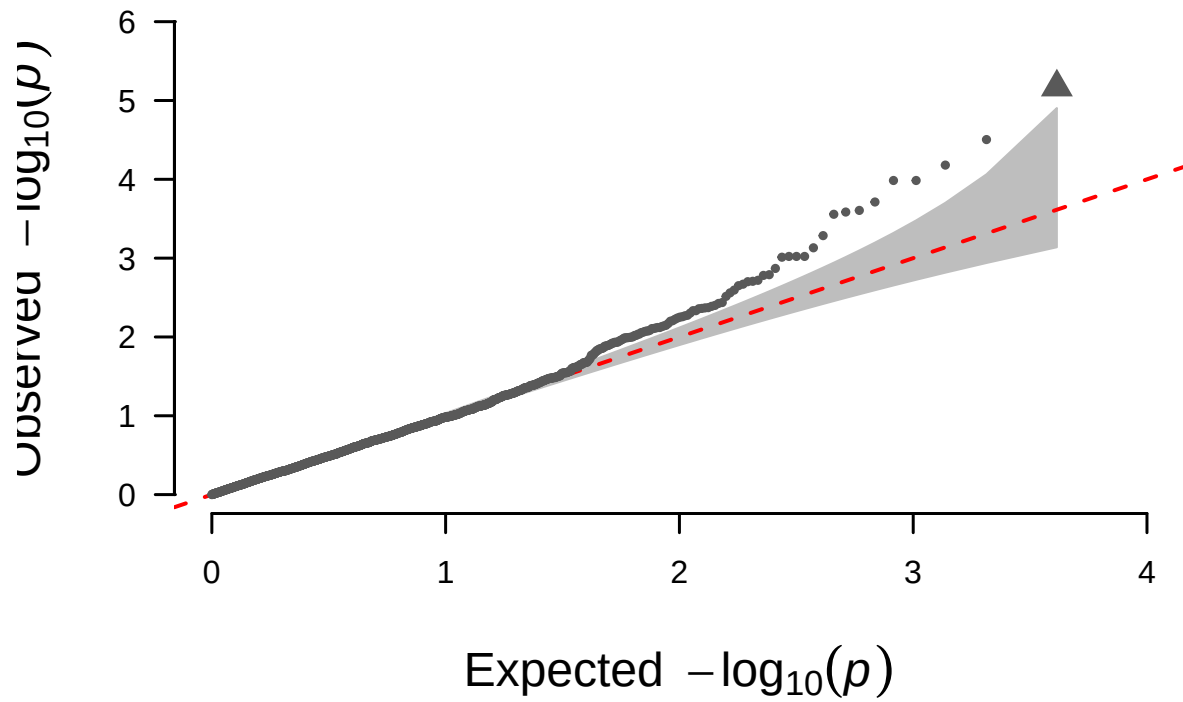
Q-Q plotting BLINK.

BLINK



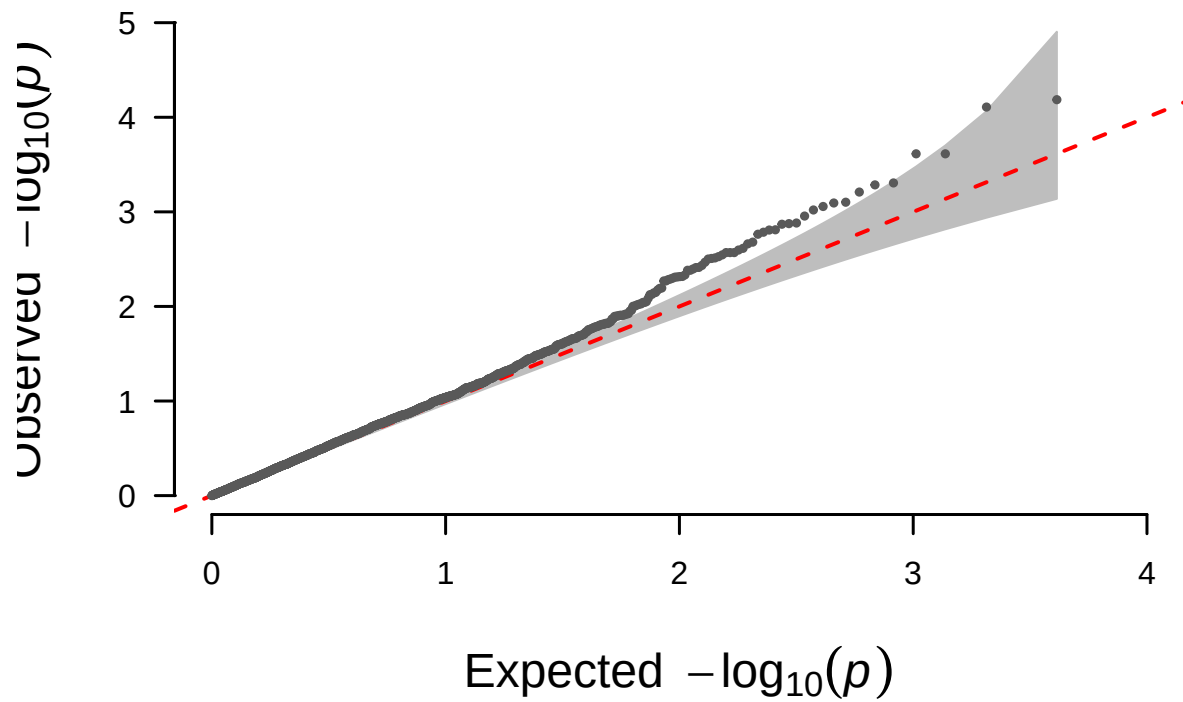
Q-Q plotting FarmCPU.

FarmCPU



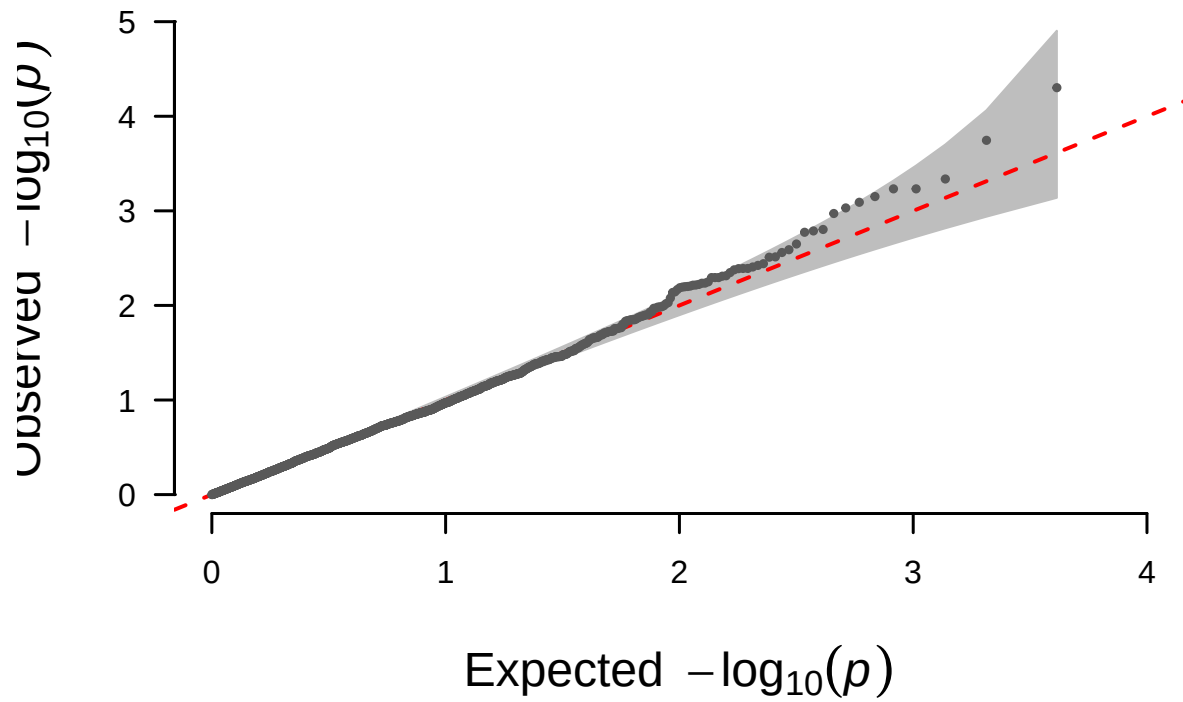
Q-Q plotting GLM.

GLM



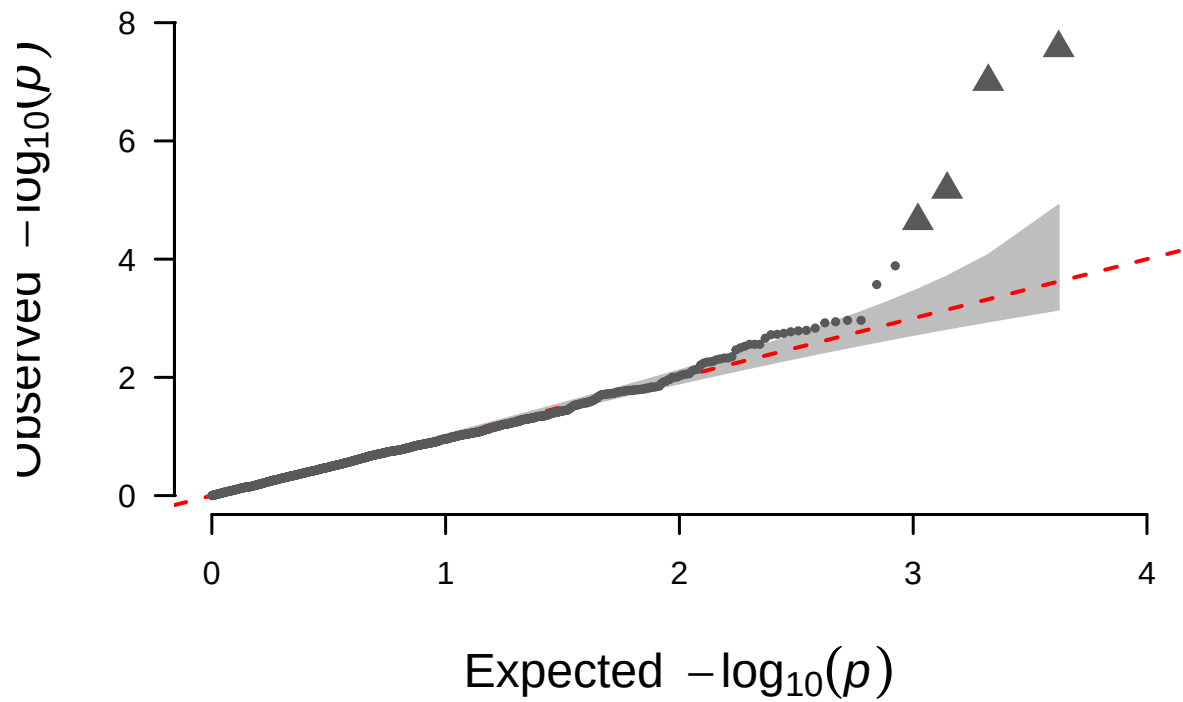
Q-Q plotting MLM.

MLM



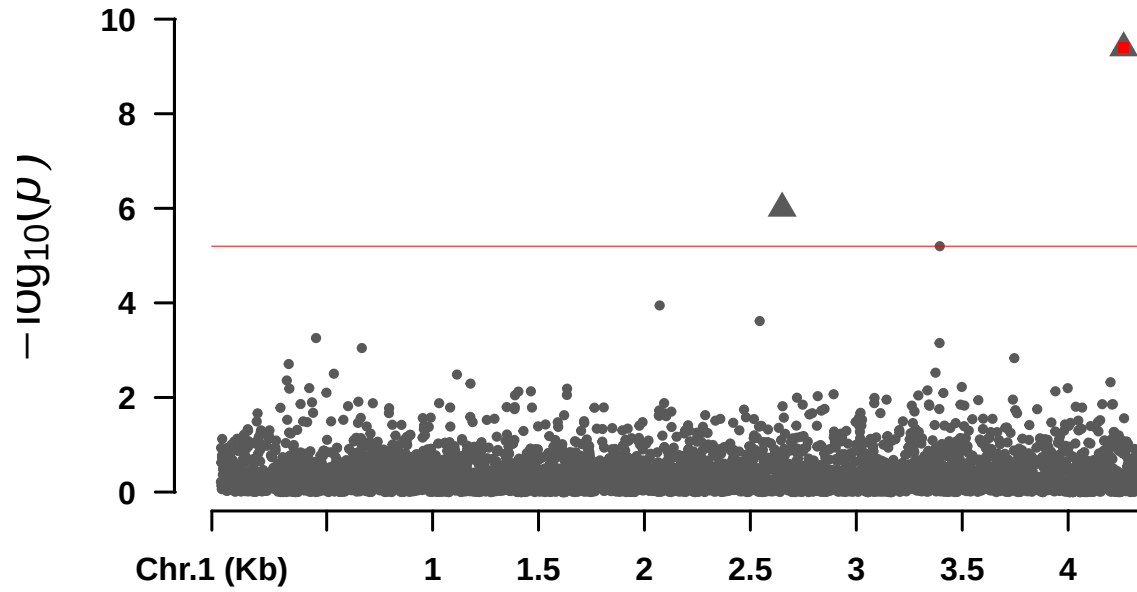
Q-Q plotting MLMM.

MLMM

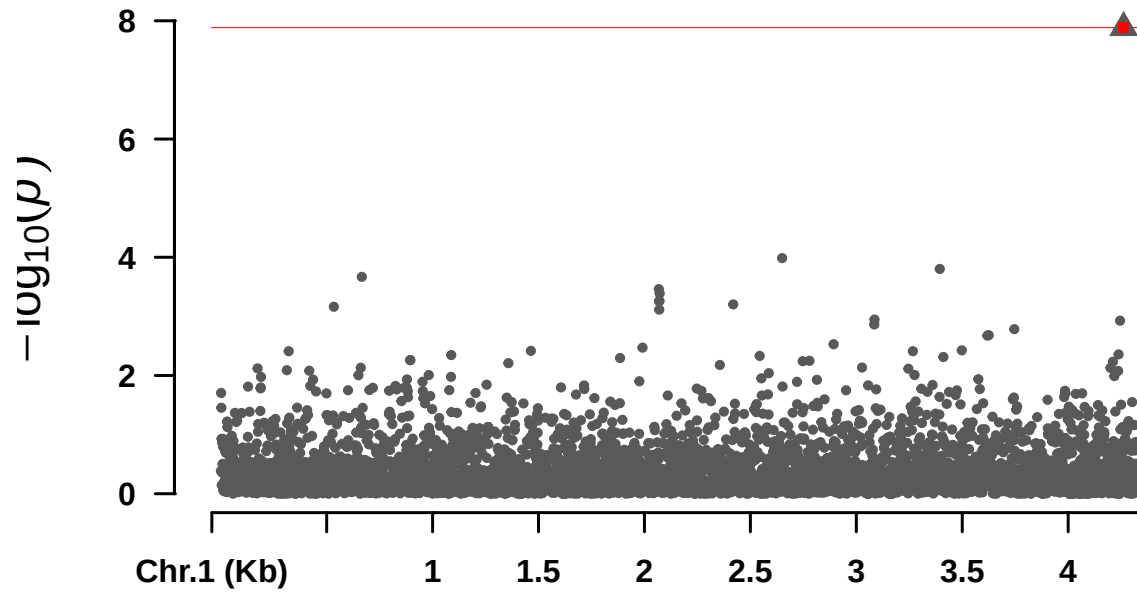


FDM

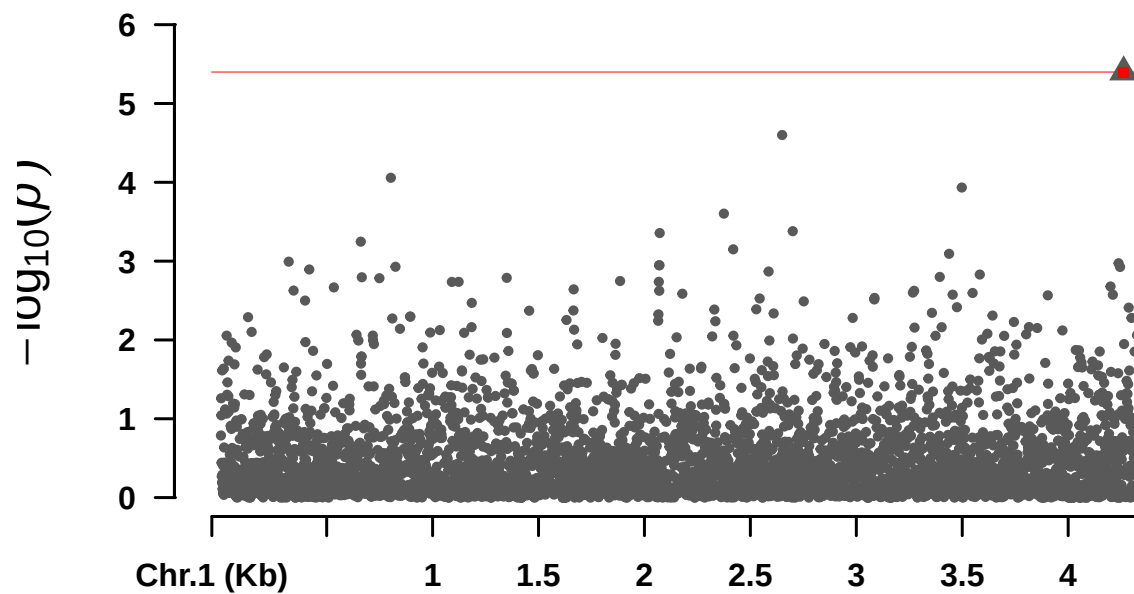
Rectangular Manhattan plotting BLINK.



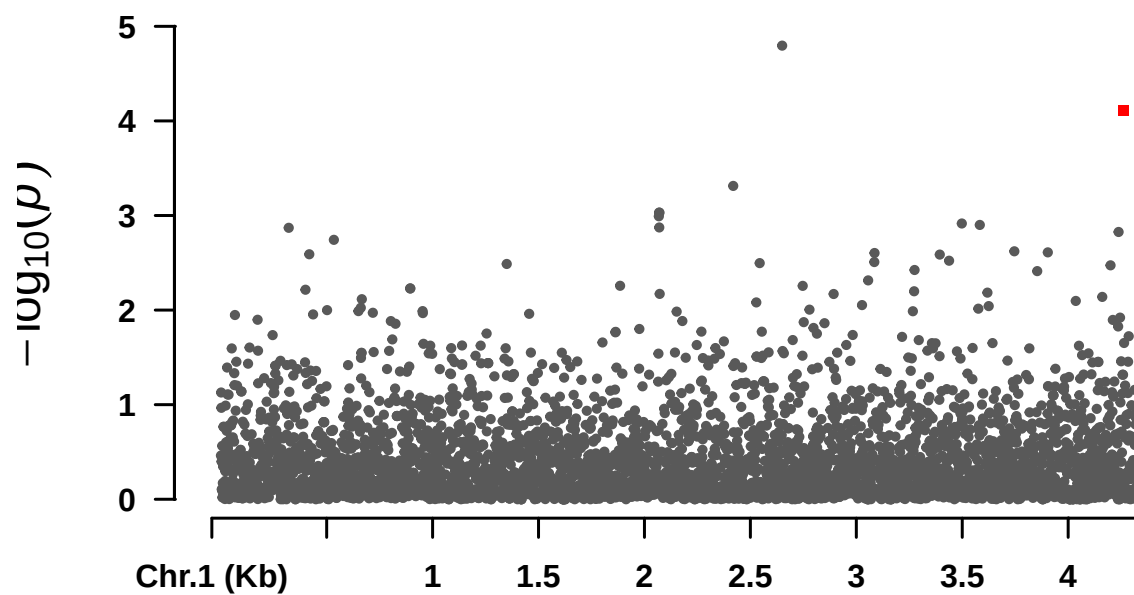
Rectangular Manhattan plotting FarmCPU.



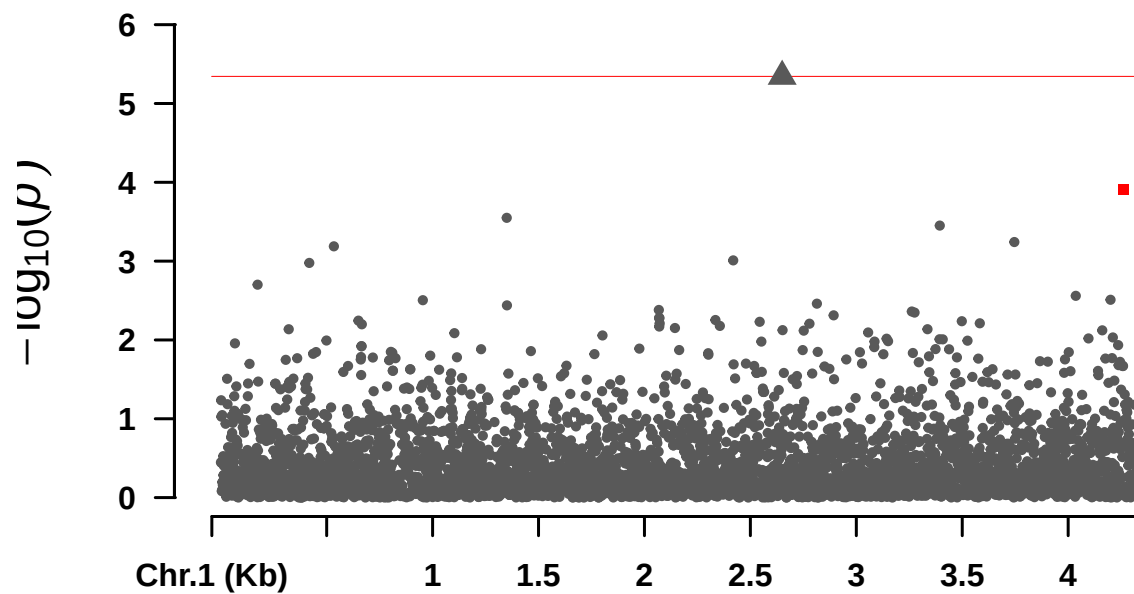
Rectangular Manhattan plotting GLM.



Rectangular Manhattan plotting MLM.

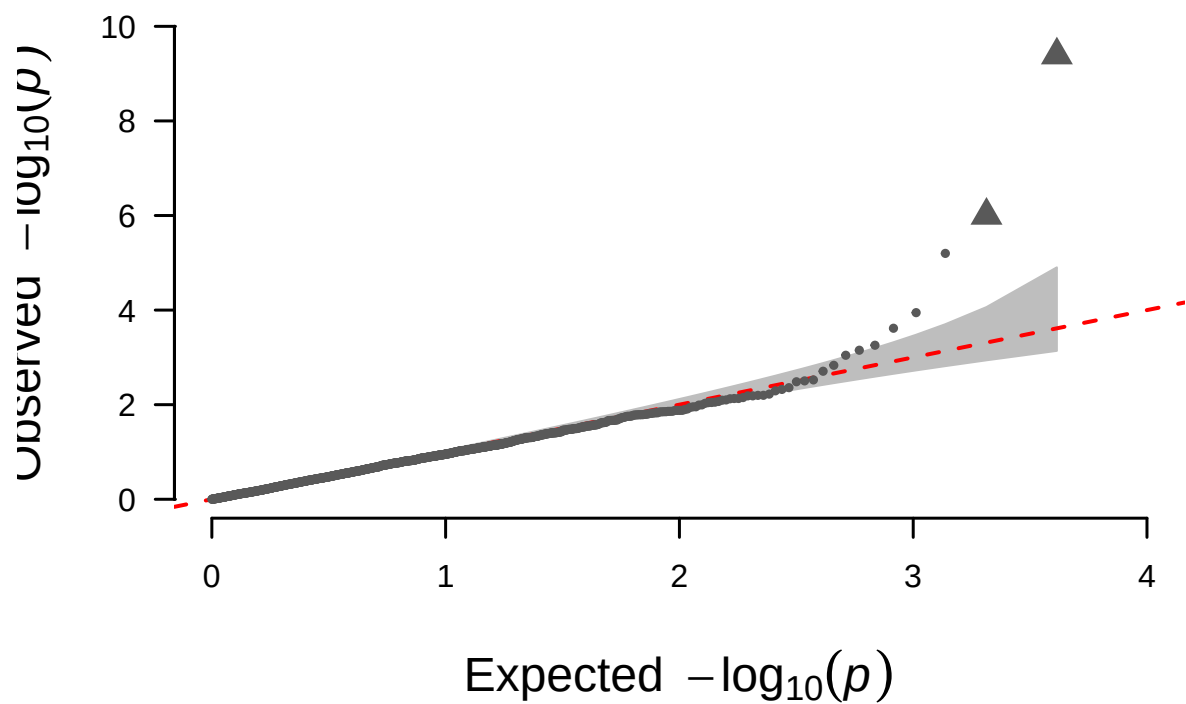


Rectangular Manhattan plotting MLMM.



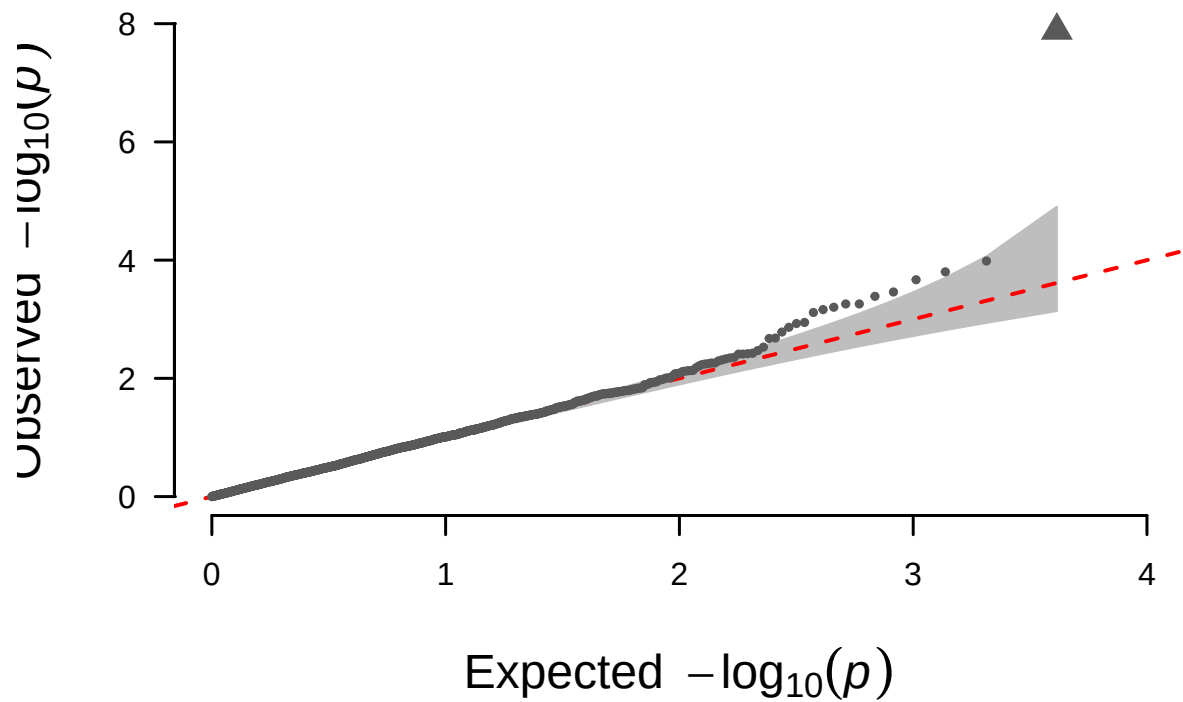
Q-Q plotting BLINK.

BLINK



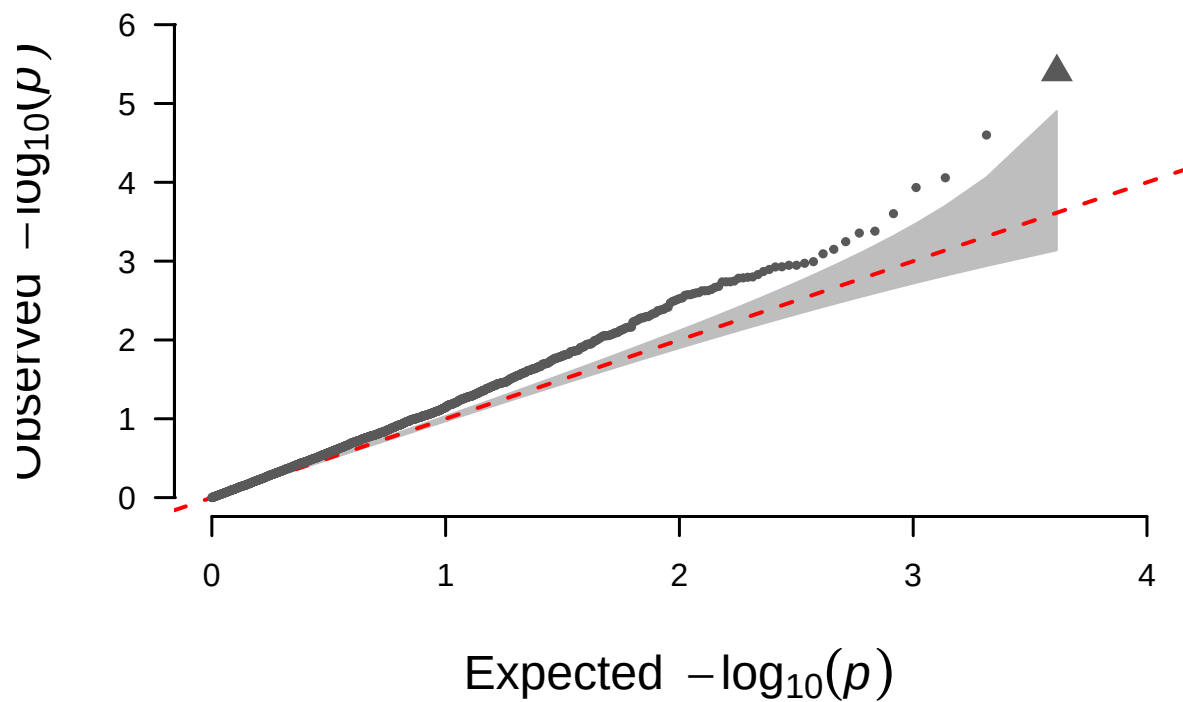
Q-Q plotting FarmCPU.

FarmCPU



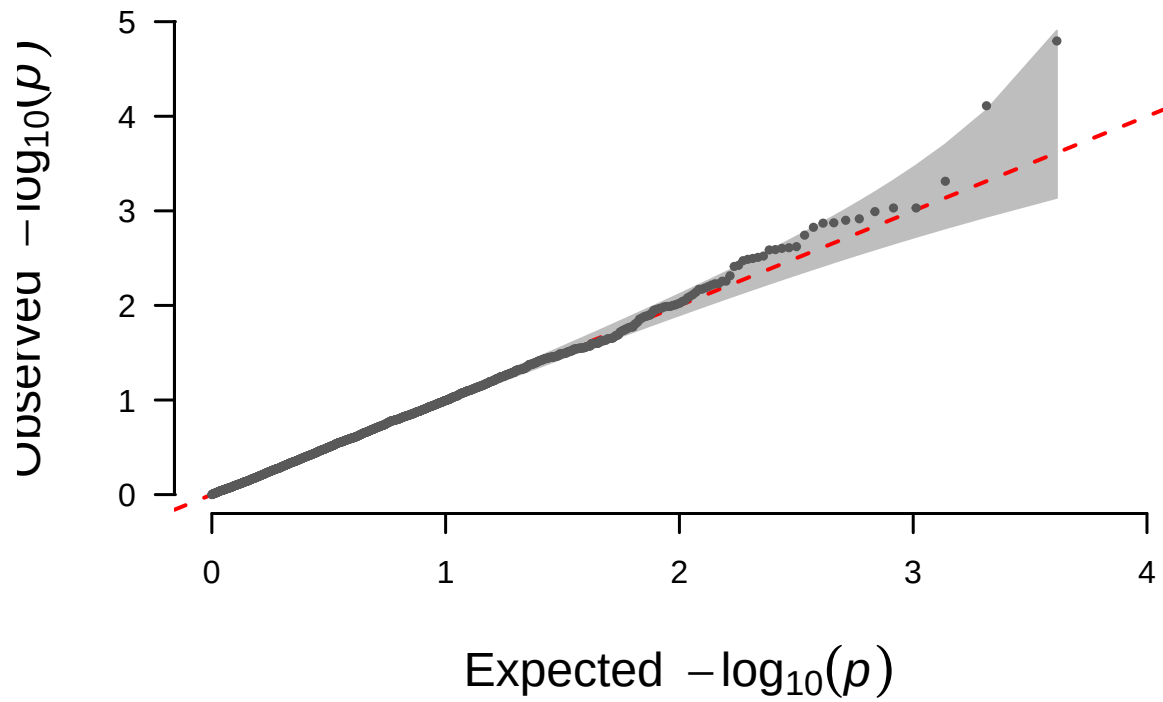
Q-Q plotting GLM.

GLM



Q-Q plotting MLM.

MLM



Q-Q plotting MLMM.

MLMM

