PHQ9 MDD prediction with log transformation
 and scale by samples :(x−median(x))/mad(x) log transformed phq9
 Use candidate gene list.
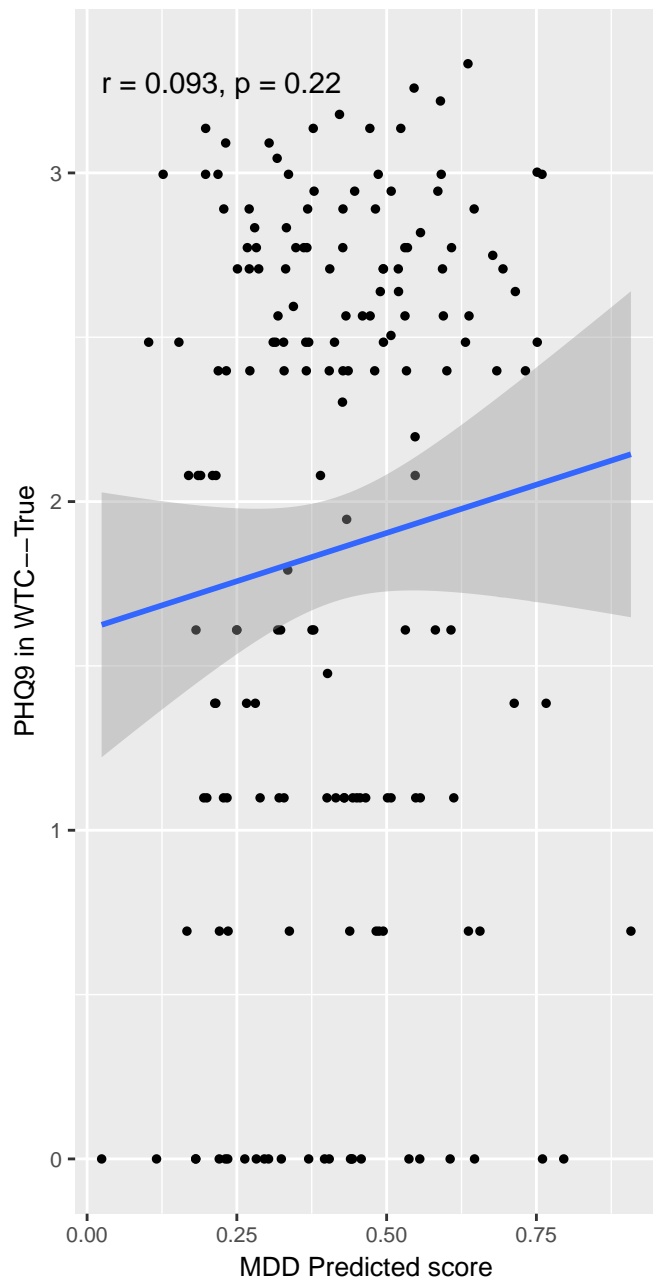 Both genders are tested for Mostafavi.

```
Train on MDD of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.602577319587629 0.49532037437005 respectively
```
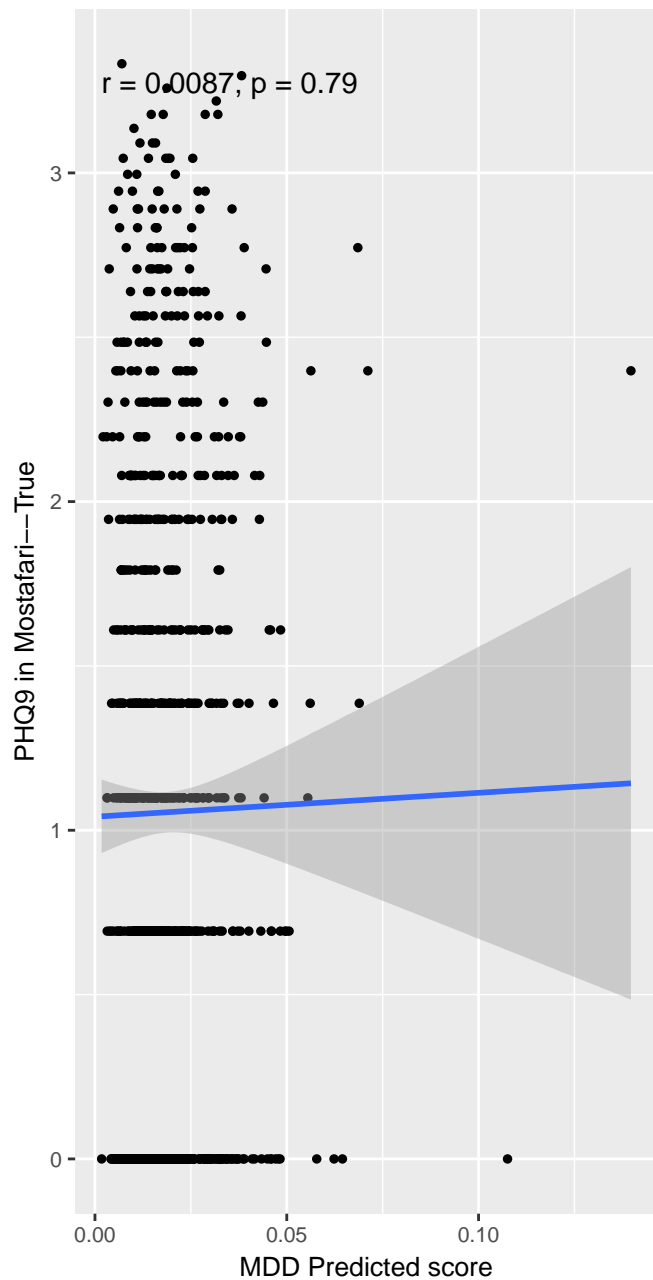
MDD Predicted score vs PHQ9 by ElasticNe   MDD Predicted score vs PHQ9 by ElasticNe

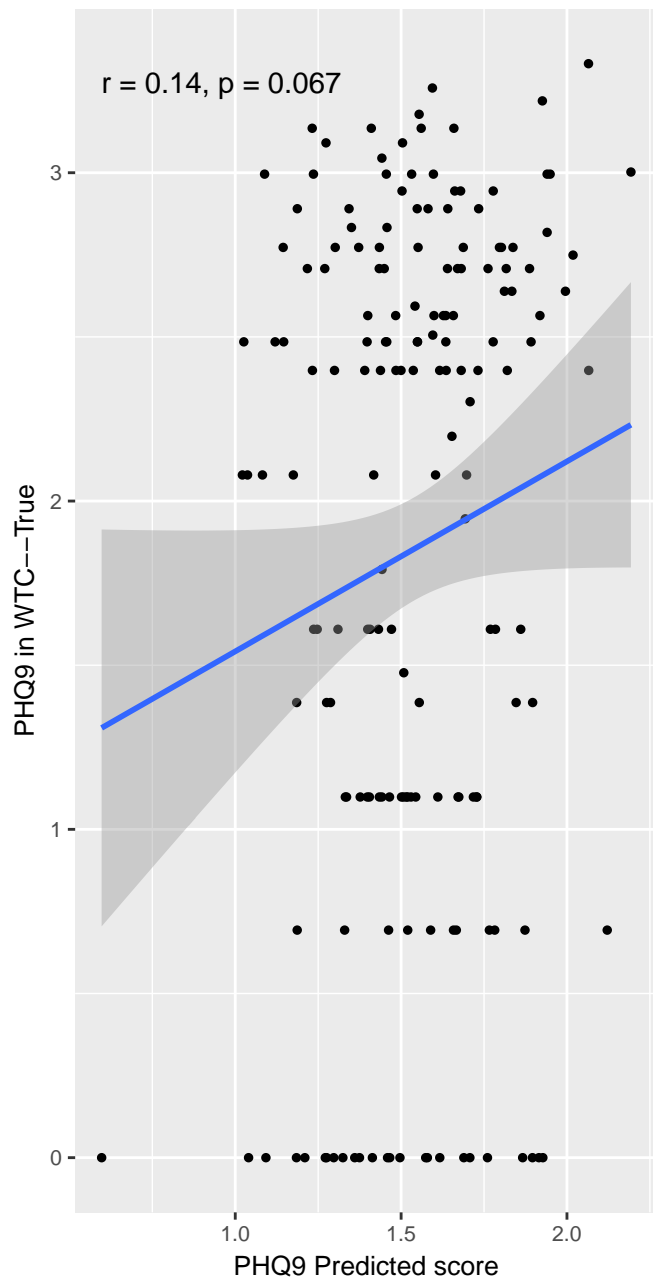r = 0.093, p = 0.22   r = 0.0087, p = 0.79
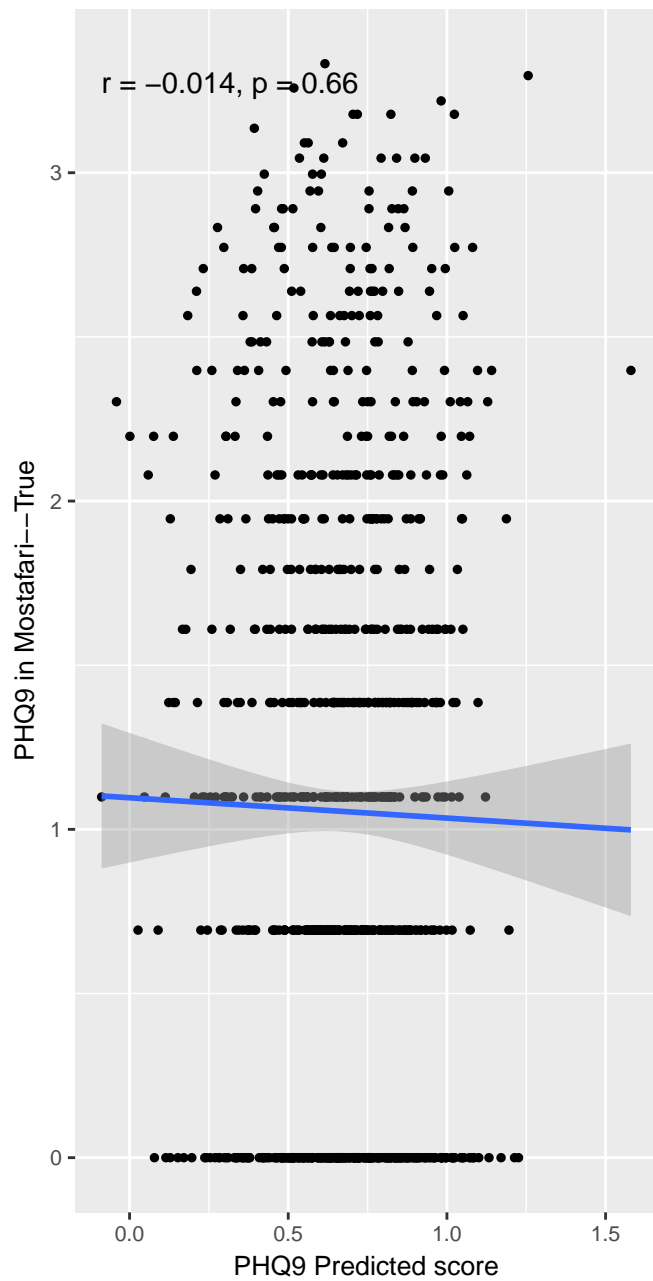
Train on PHQ9 of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.602967197495576 0.506274792134276 respectively

PHQ9 Predicted score vs PHQ9 by ElasticNe   PHQ9 Predicted score vs PHQ9 by ElasticNe
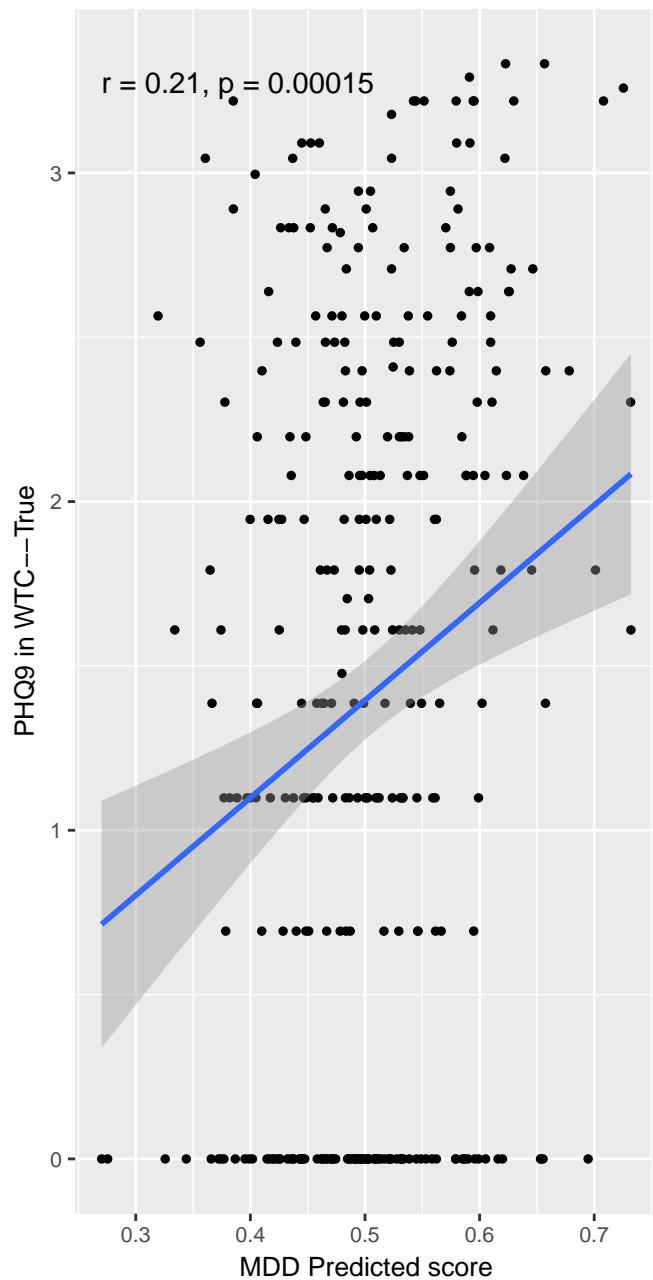
```
Train on MDD of batch 4
 Test on batch 3 and Mostafavi
 Prediction Model on MDD of Batch 3 and Mostafavi:
 AUC are 0.566858080393765 0.510843838375283 respectively
```
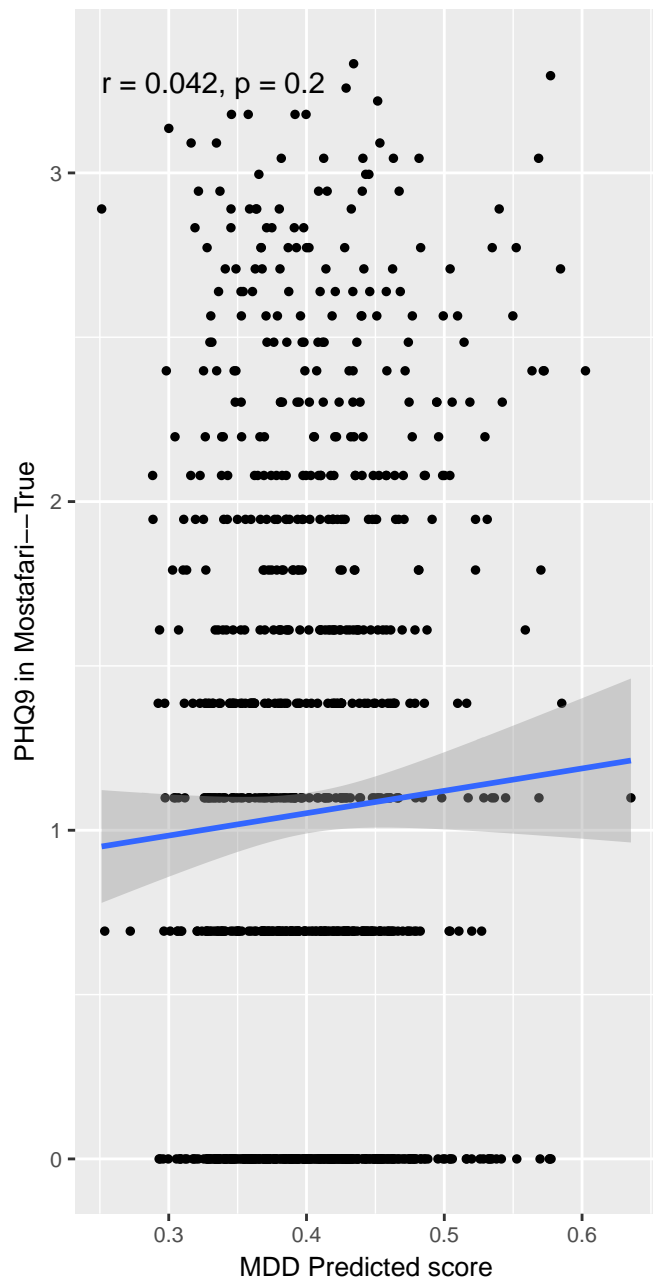
MDD Predicted score vs PHQ9 by ElasticNe   MDD Predicted score vs PHQ9 by ElasticNe

r = 0.21, p = 0.00015   r = 0.042, p = 0.2
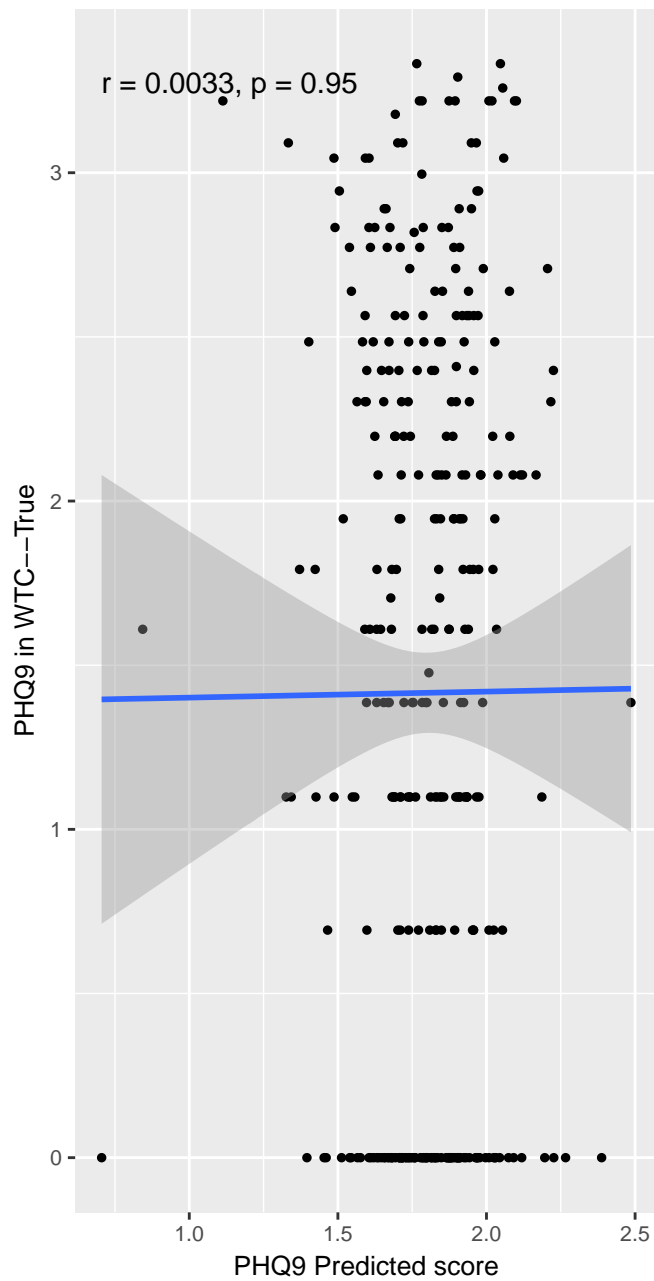
Train on PHQ9 of batch 4
 Test on batch 3 and Mostafavi
 Prediction Model on MDD of Batch 3 and Mostafavi:
 AUC are 0.467390835811888 0.483255457210482 respectively

PHQ9 Predicted score vs PHQ9 by ElasticNe   PHQ9 Predicted score vs PHQ9 by ElasticNe