PHQ9 MDD prediction with log transformation
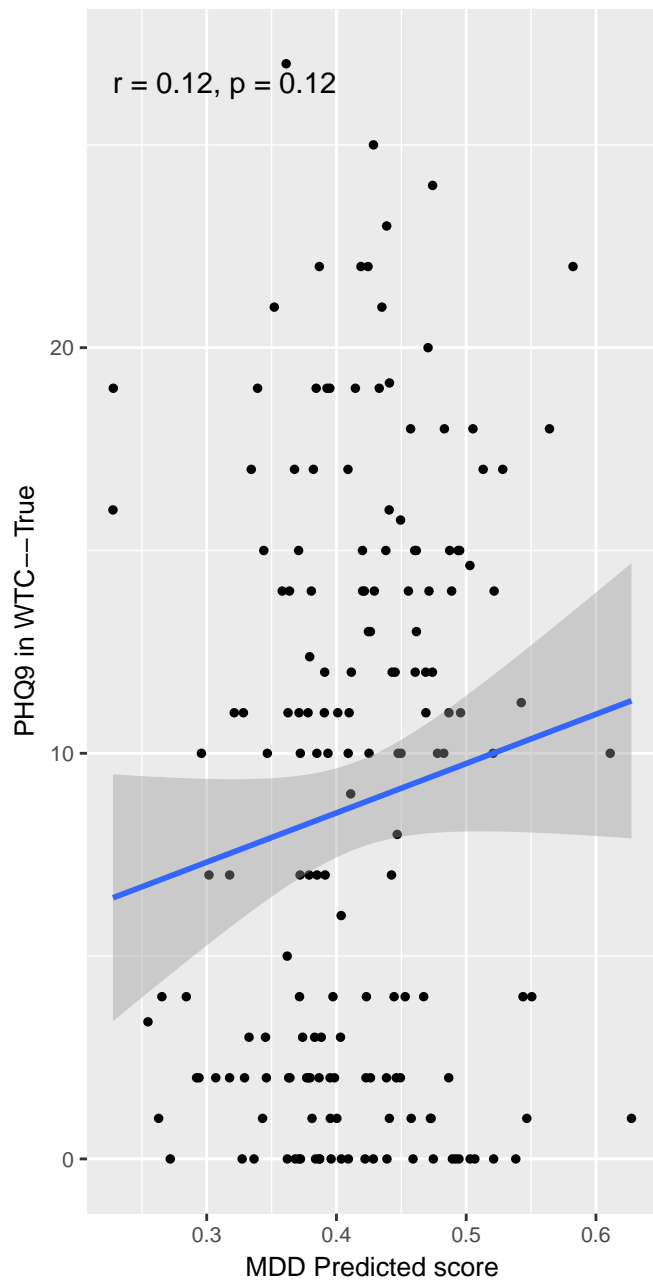and scale by samples :$(x-mean(x)/sd(x)$

```
Train on MDD of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.620360824742268 0.456708113325385 respectively
```
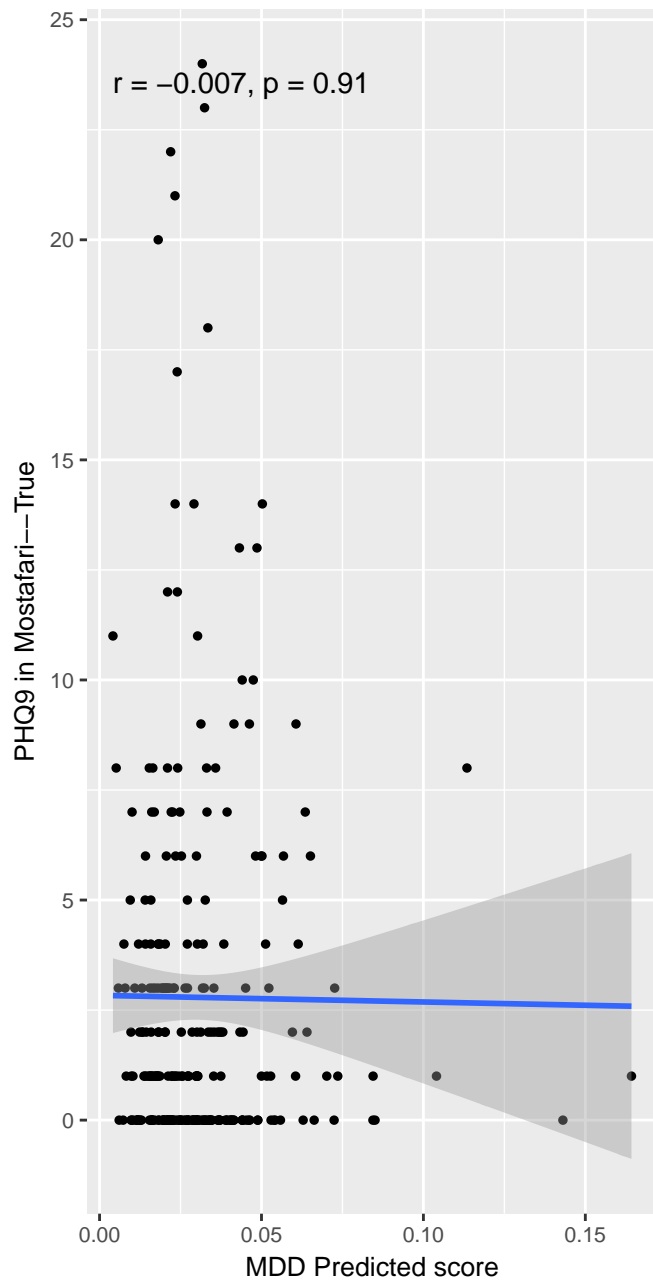
MDD Predicted score vs PHQ9 by ElasticNe MDD Predicted score vs PHQ9 by ElasticNe
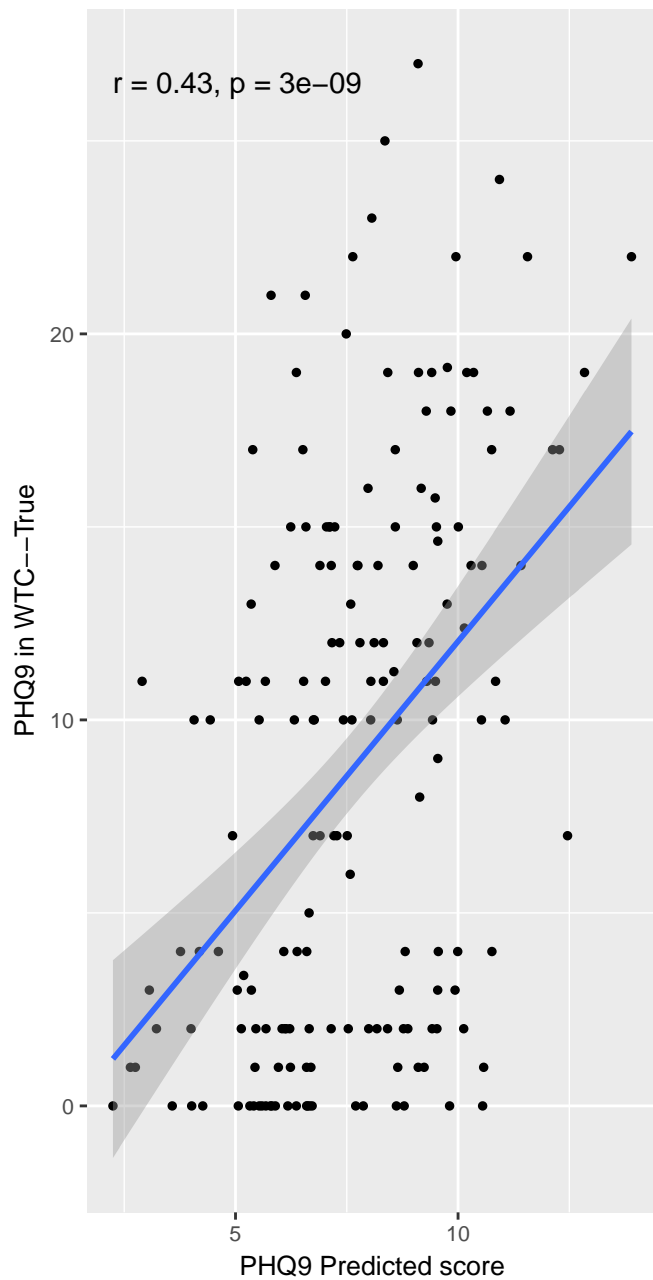
r = 0.12, p = 0.12   r = −0.007, p = 0.91

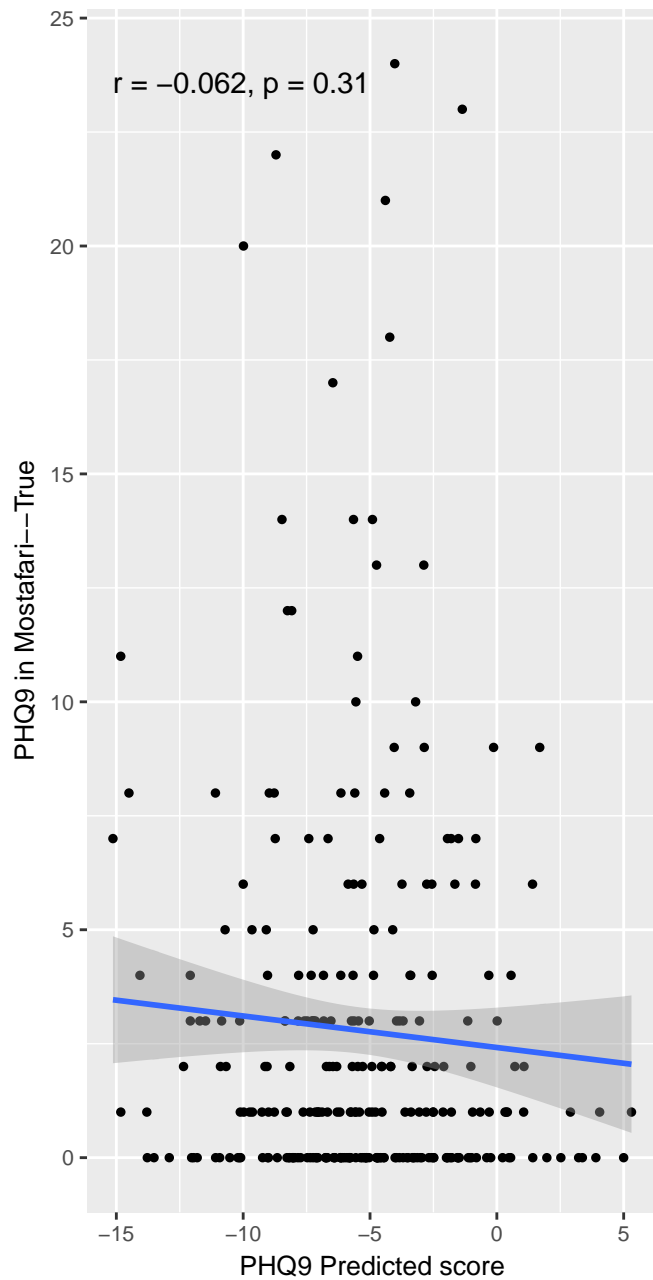Train on PHQ9 of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.668163876412141 0.442230170896497 respectively

PHQ9 Predicted score vs PHQ9 by ElasticN

PHQ9 Predicted score vs PHQ9 by ElasticN

r = 0.43, p = 3e−09

r = −0.062, p = 0.31

PHQ9 in WTC−−True

PHQ9 in Mostafari−−True

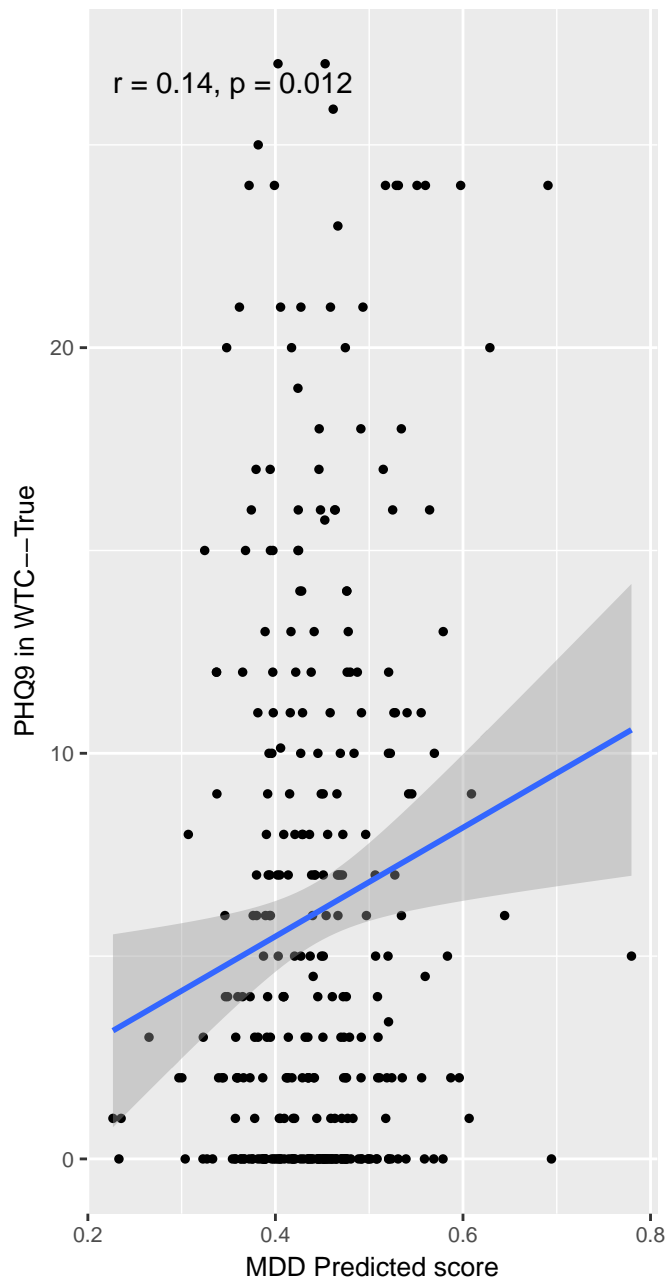PHQ9 Predicted score

PHQ9 Predicted score

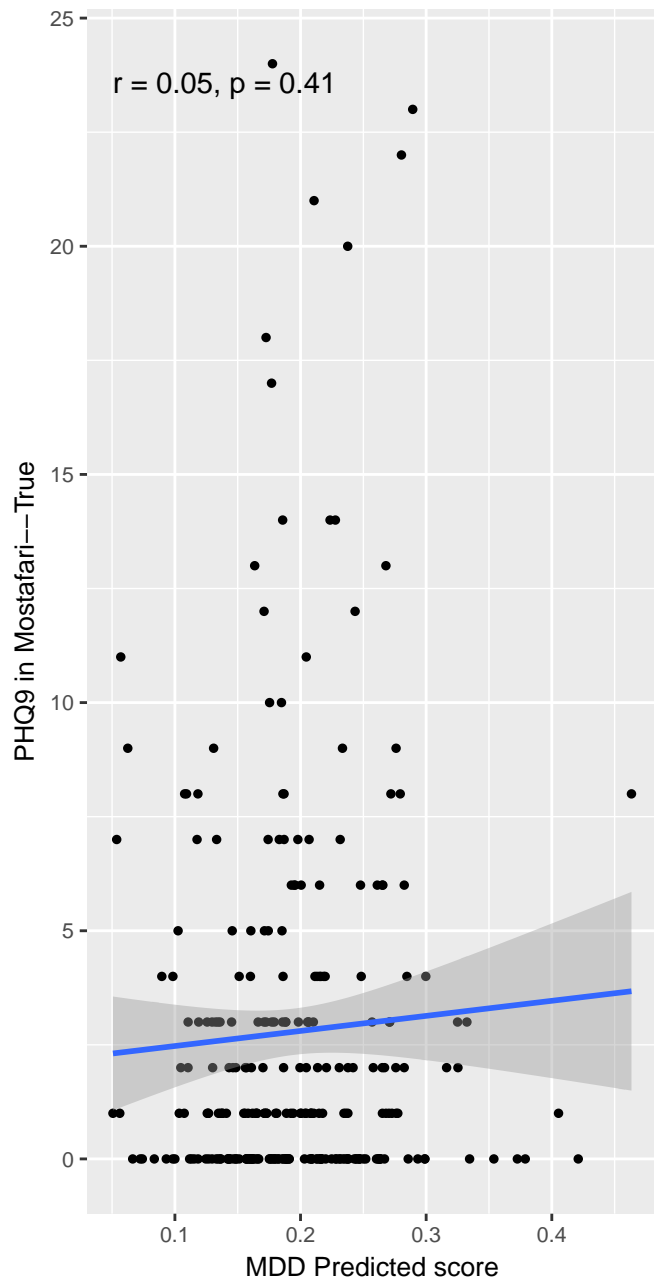Train on MDD of batch 4
 Test on batch 3 and Mostafavi
 Prediction Model on MDD of Batch 3 and Mostafavi:
 AUC are 0.568129614438064 0.550786350990745 respectively

MDD Predicted score vs PHQ9 by ElasticNe   MDD Predicted score vs PHQ9 by ElasticNe
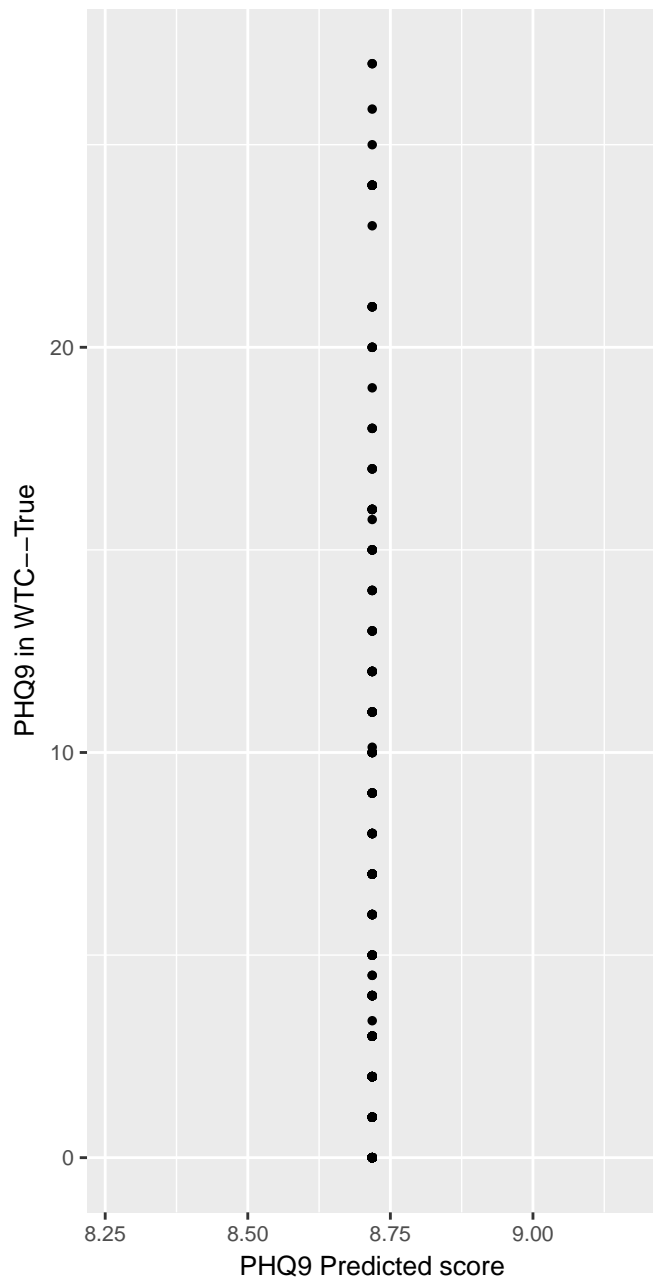
Train on PHQ9 of batch 4
 Test on batch 3 and Mostafavi
 Prediction Model on MDD of Batch 3 and Mostafavi:
 AUC are 0.5 0.5 respectively

PHQ9 Predicted score vs PHQ9 by ElasticN   PHQ9 Predicted score vs PHQ9 by ElasticN