PHQ9 MDD prediction with log transformation
 and scale by samples :(x-median(x))/mad(x)
 log transformed phq9
 Use 2000 top genes.
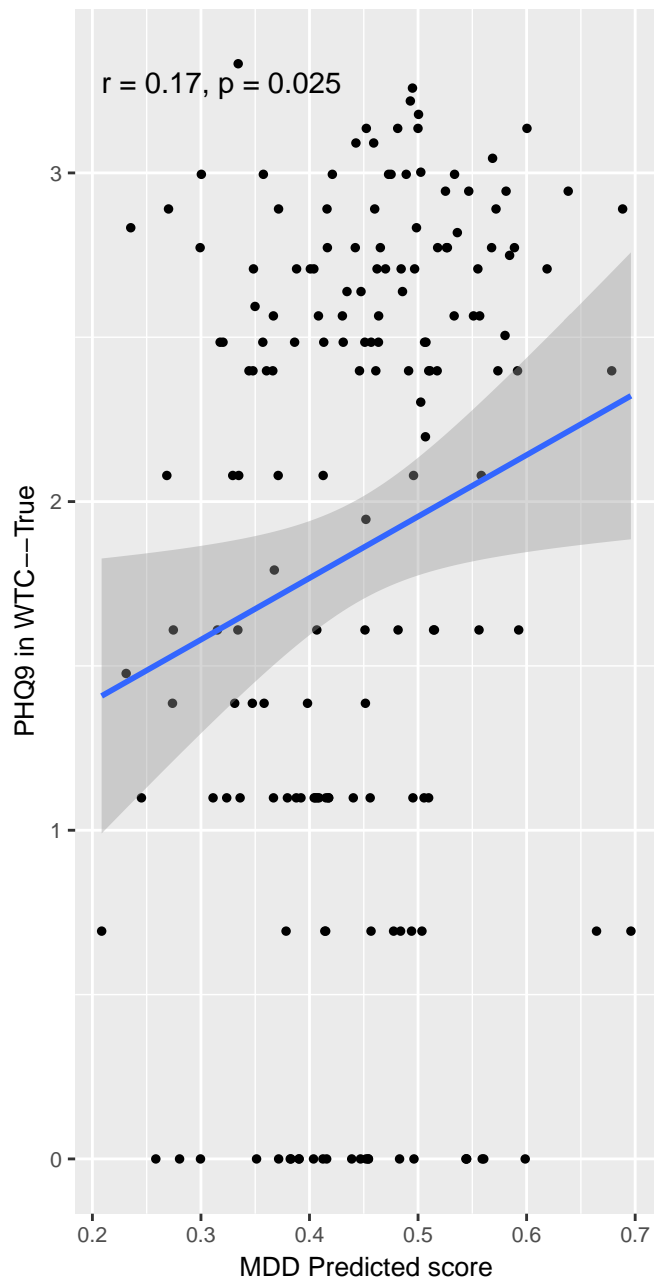 Both gender are tested for Mostafavi.

```
Train on MDD of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.670747422680412 0.489372614896691 respectively
```
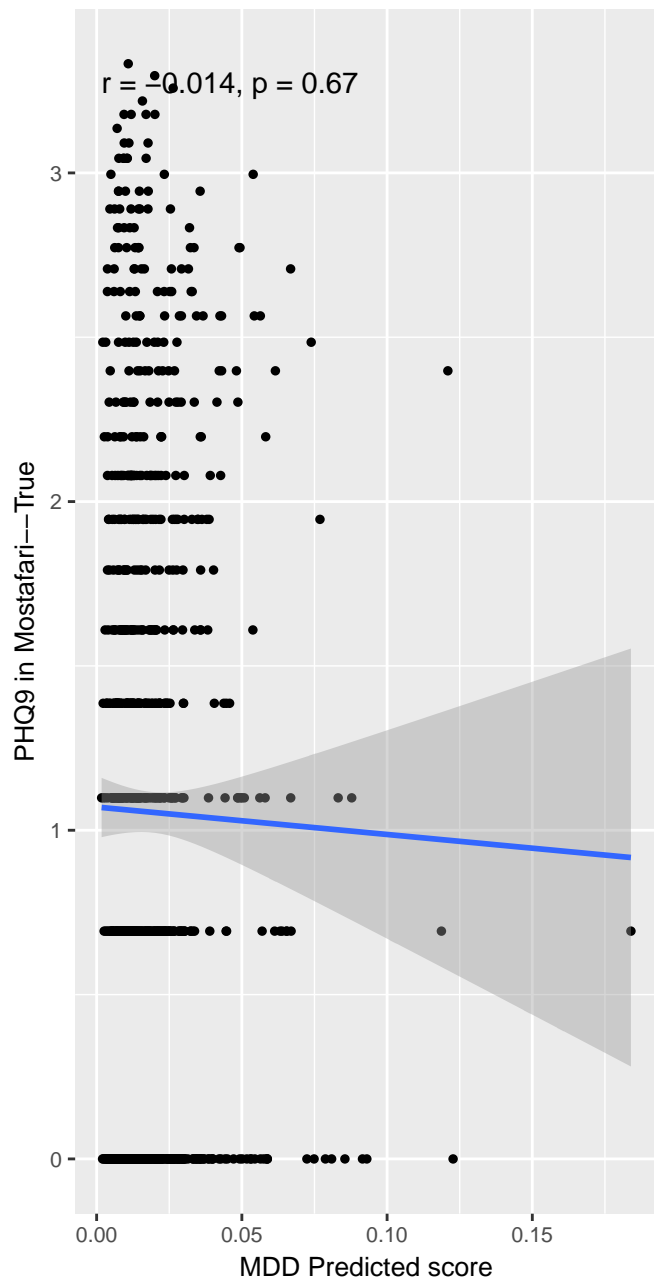
MDD Predicted score vs PHQ9 by ElasticNe   MDD Predicted score vs PHQ9 by ElasticNe
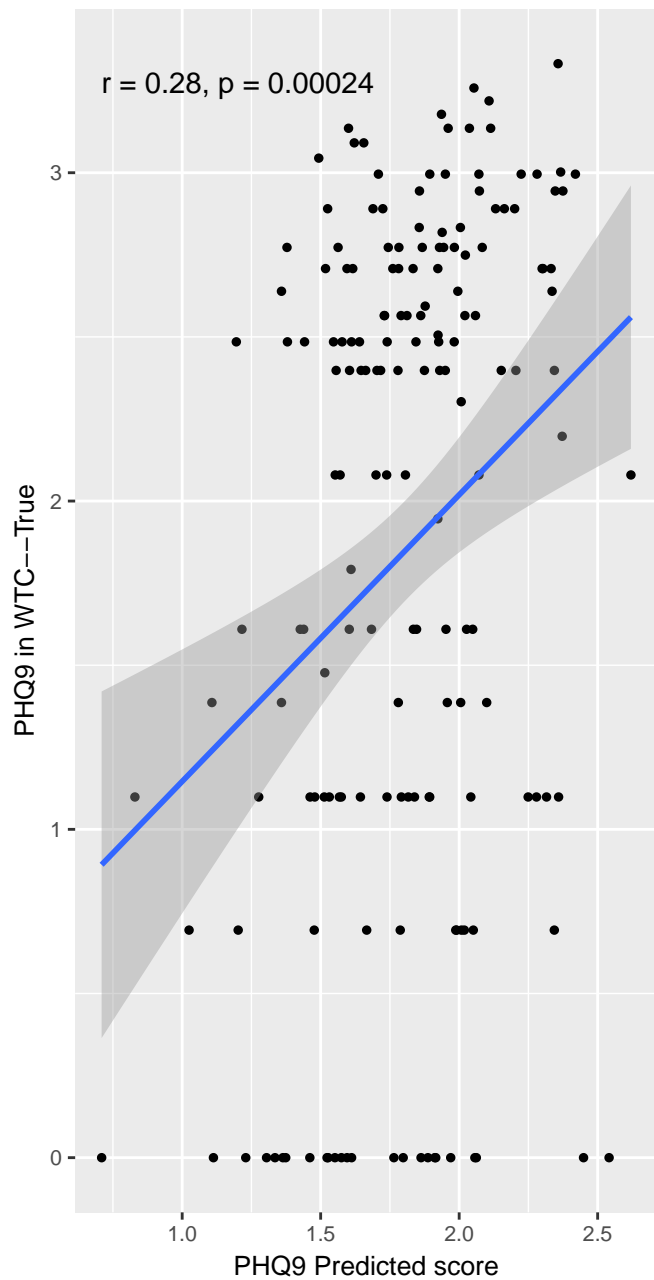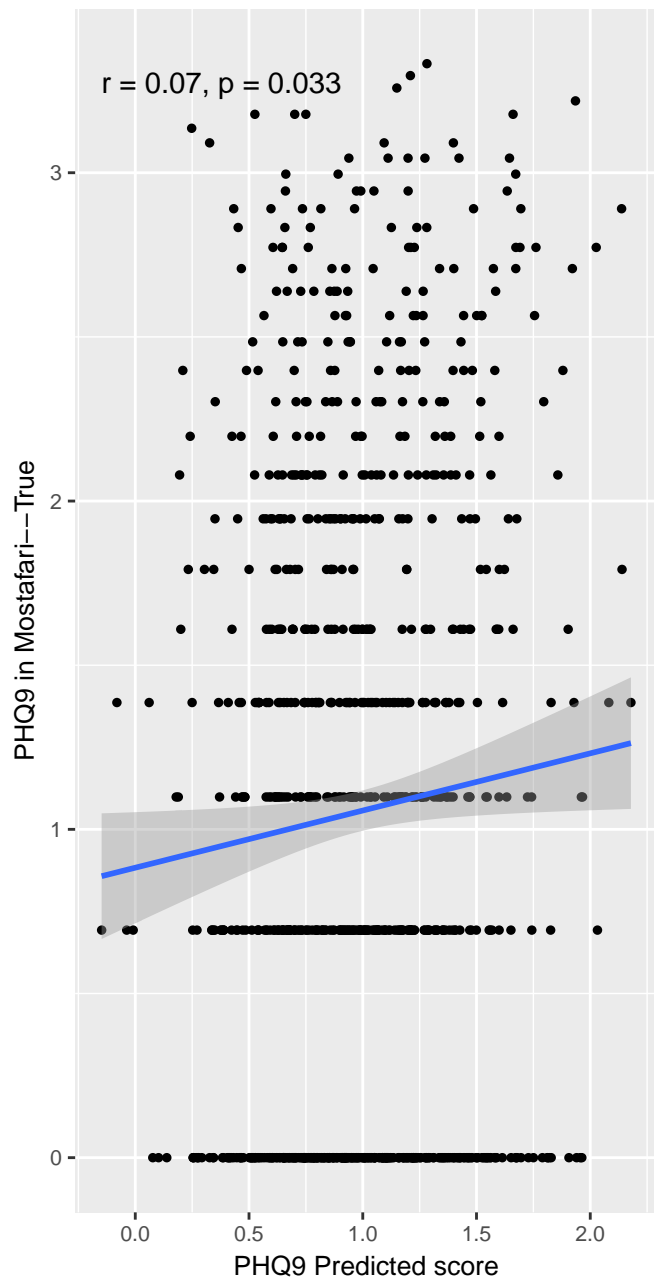
Train on PHQ9 of batch 3
 Test on batch 4 and Mostafavi
 Prediction Model on MDD of Batch 4 and Mostafavi:
 AUC are 0.603783857356744 0.573977611202868 respectively

PHQ9 Predicted score vs PHQ9 by ElasticNe... | PHQ9 Predicted score vs PHQ9 by ElasticNe...
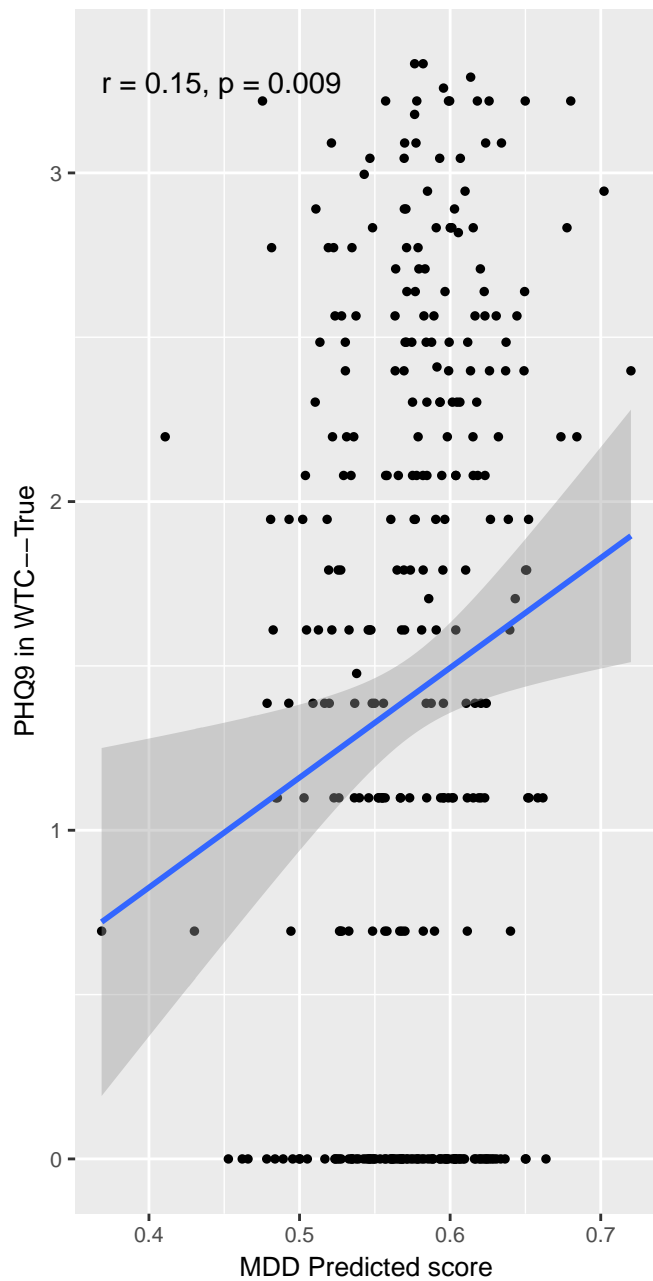
Train on MDD of batch 4
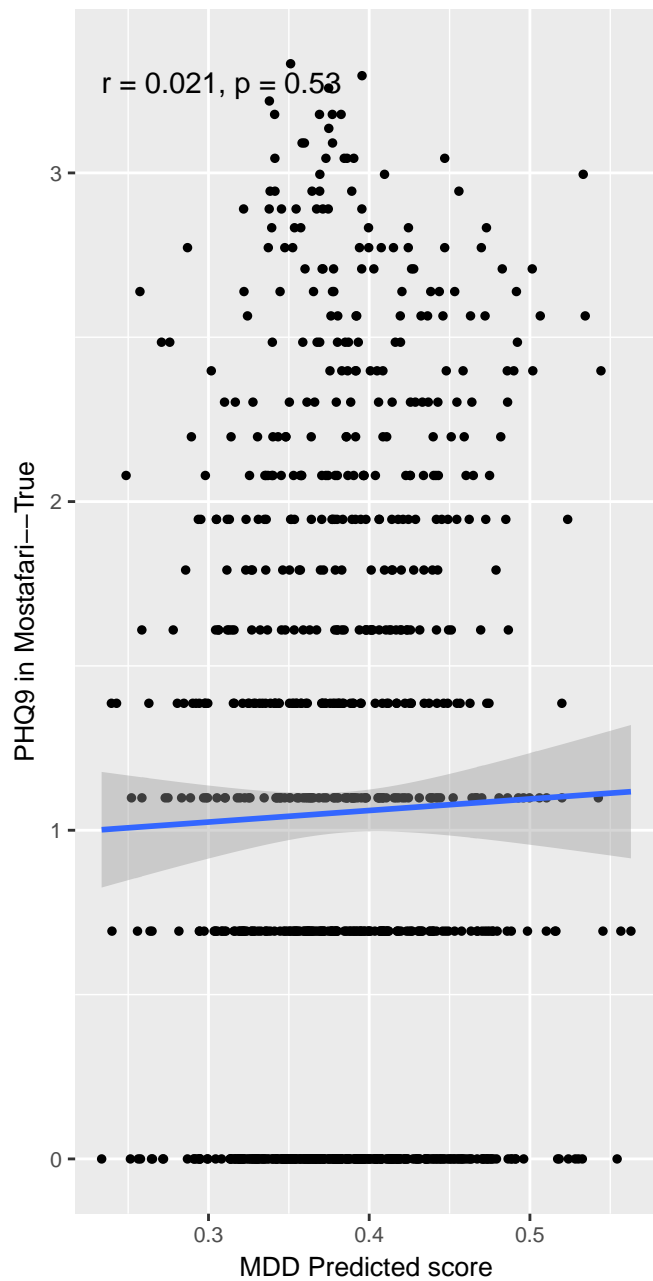 Test on batch 3 and Mostafavi
 Prediction Model on MDD of Batch 3 and Mostafavi:
 AUC are 0.581378178835111 0.498689516603378 respectively

MDD Predicted score vs PHQ9 by ElasticNe

MDD Predicted score vs PHQ9 by ElasticNe

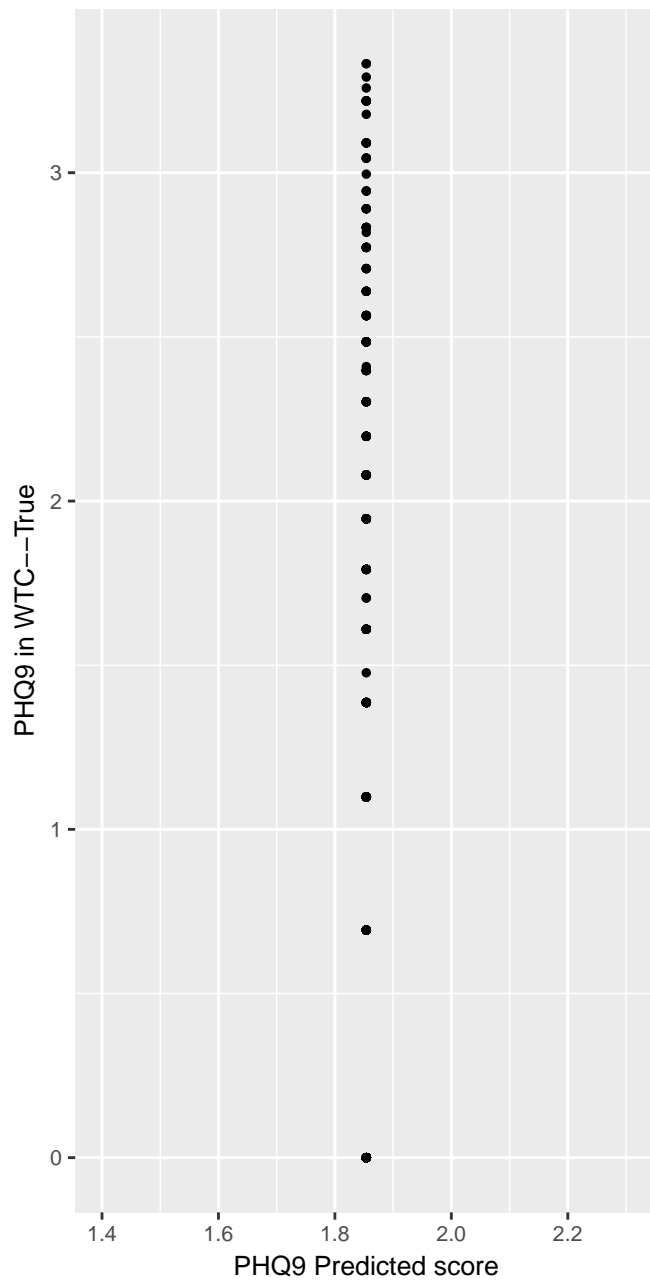r = 0.15, p = 0.009

r = 0.021, p = 0.53

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 ElasticNe   PHQ9 Predicted score vs PHQ9 by ElasticNe