PHQ9 MDD prediction with genes log transformed and scale by samples (x-median(x))/mad(x)

Design setting are:

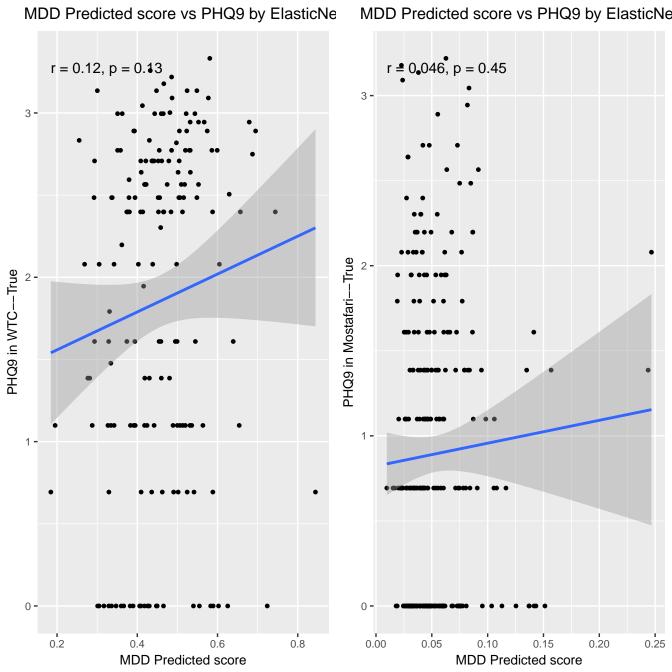
Log transformed PHQ9. Only male are tested for Mostafavi.

Top 2000 genes by 2-step filtering.

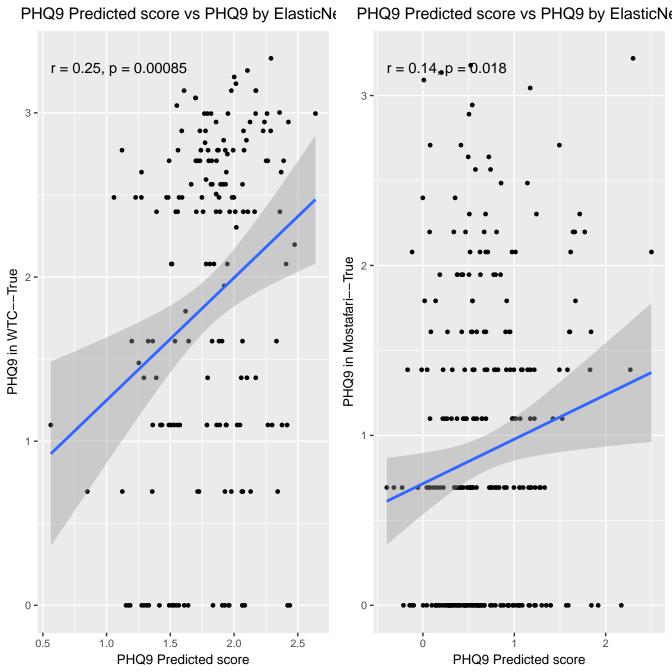
Design setting code are:

1,1,1

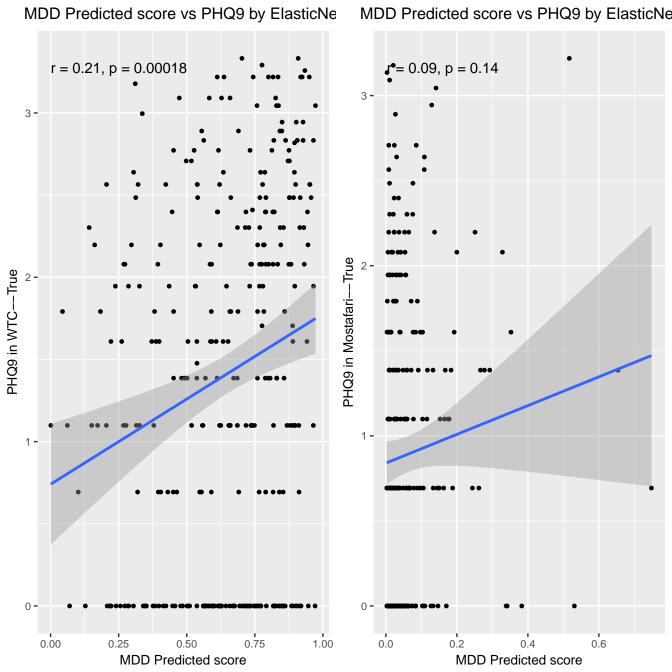
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.625515463917526 0.576278884914552 respectively



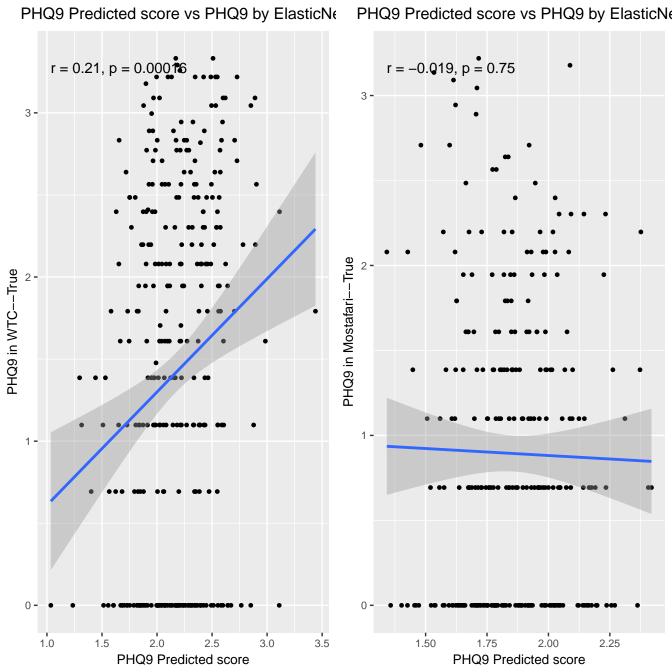
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.581325711174629 0.631238289899506 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.703281378178835 0.523533753477545 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.611448769343506 0.466416851189462 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

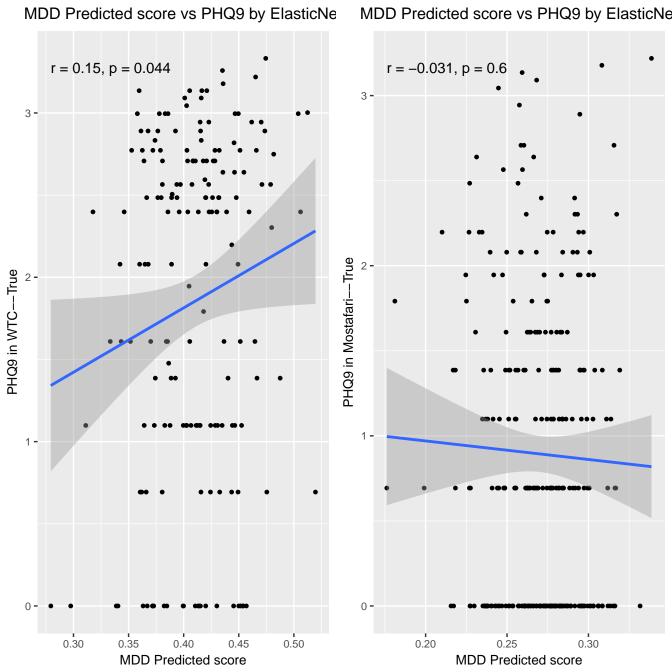
Design setting are:
Log transformed PHQ9.

Only male are tested for Mostafavi.
40 candidate genes by 2-step filtering.

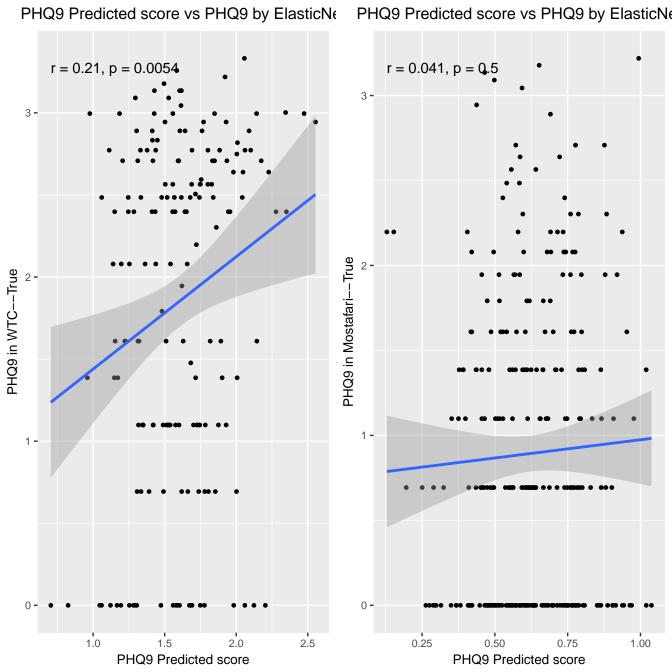
Design setting code are:

1,1,2

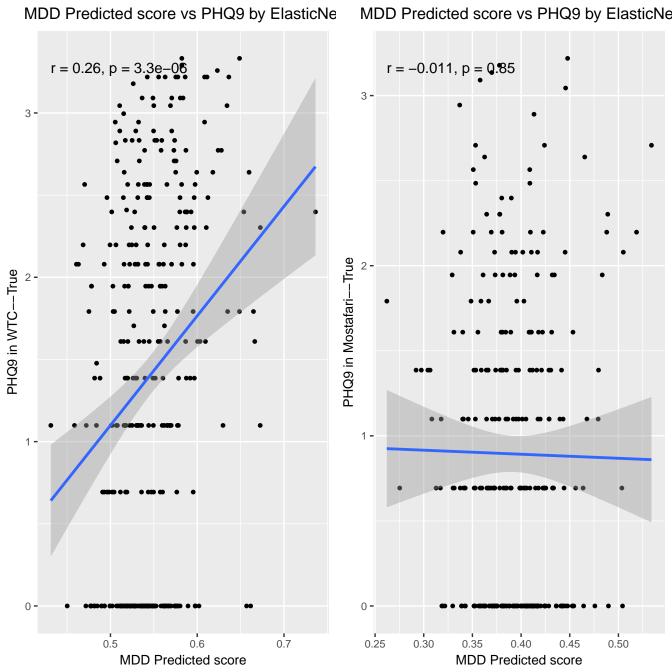
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.562886597938144 0.468574348492591 respectively



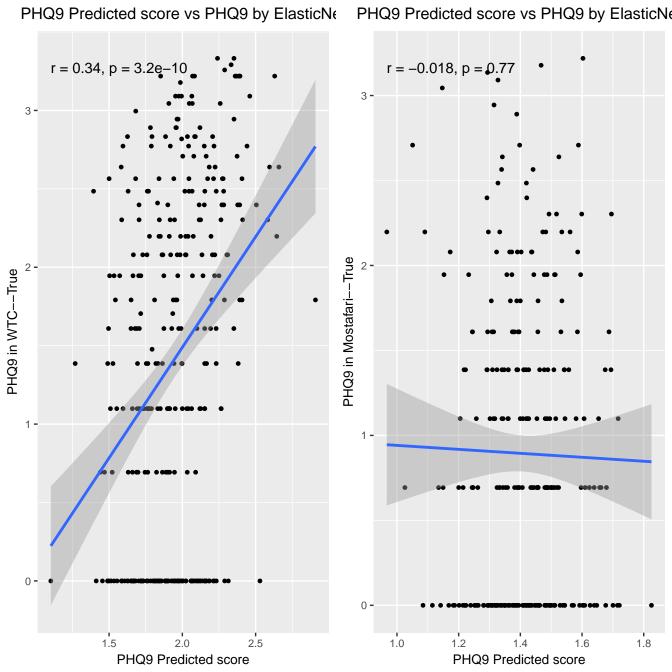
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.634000272219954 0.494577868619769 respectively



Prediction Model on MDD of Batch 3 and Mostafavi:
AUC are 0.630803937653815 0.520183955033214 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.655502392344498 0.469880202123432 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

Design setting are:
Log transformed PHQ9.

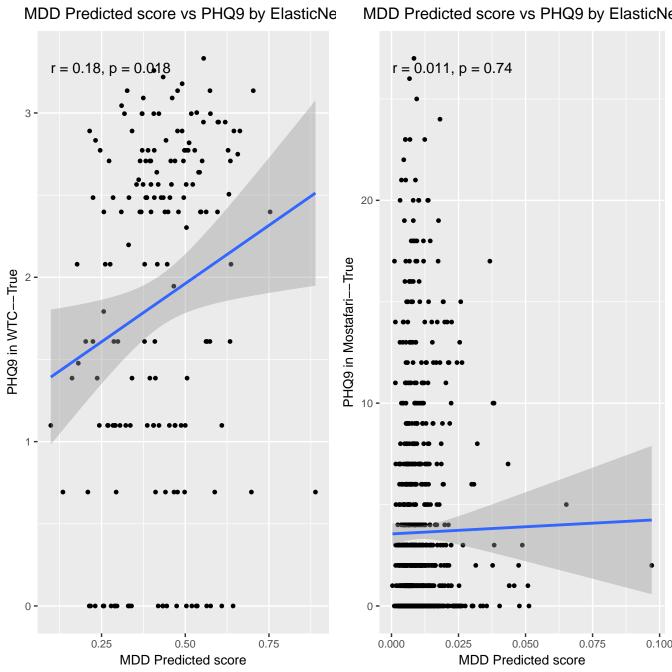
Both gender are tested.

Top 2000 genes by 2-step filtering.

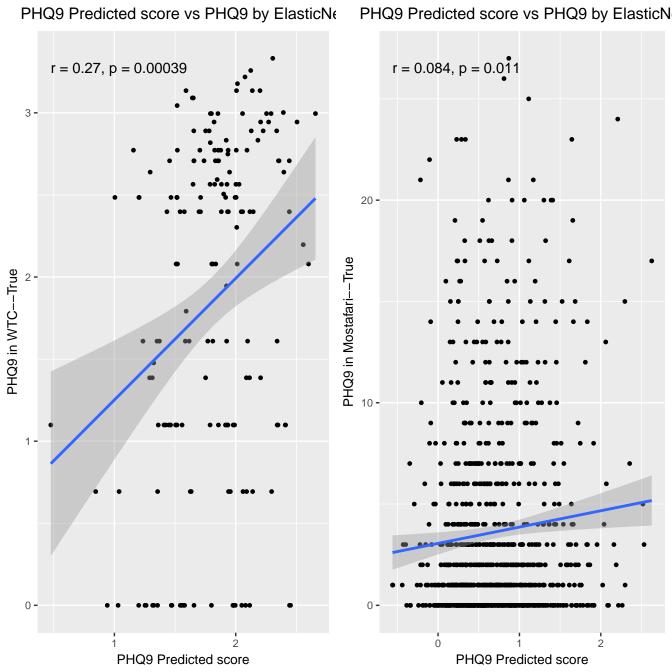
Design setting code are:

1,2,1

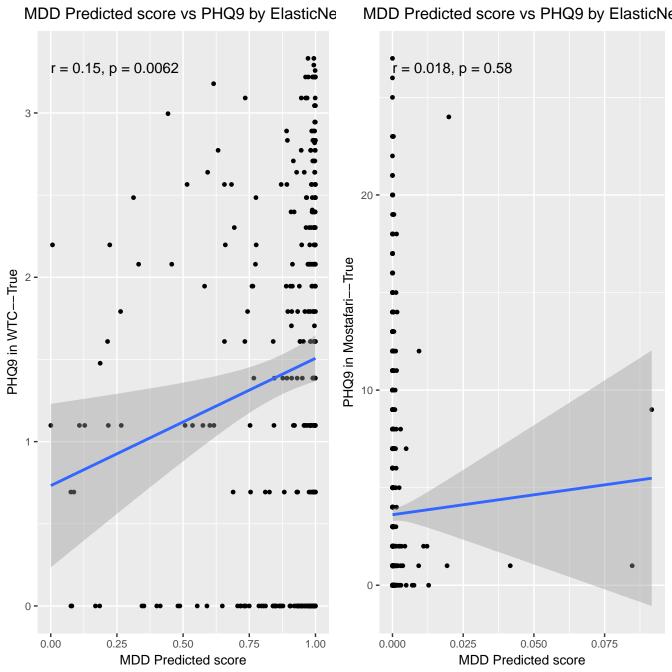
Prediction Model on MDD of Batch 4 and Mostafavi:
AUC are 0.674355670103093 0.542855395097804 respectively



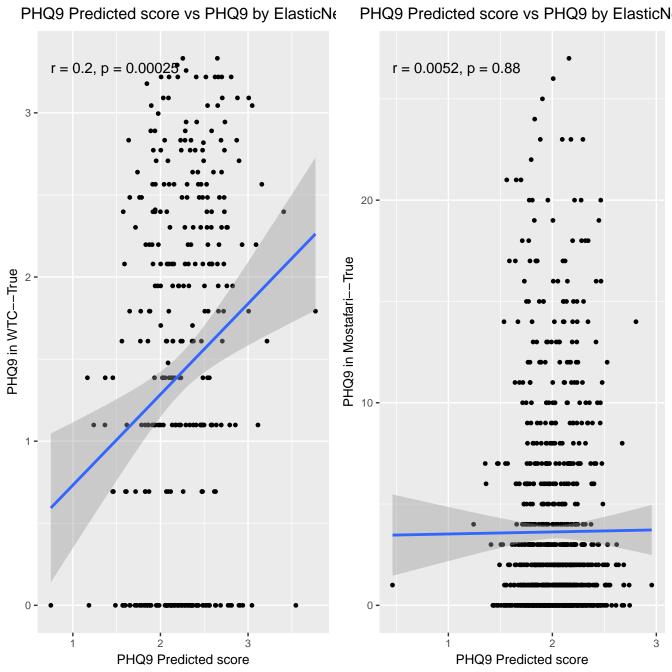
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.591670069416088 0.573685869836295 respectively



Prediction Model on MDD of Batch 3 and Mostafavi:
AUC are 0.723297785069729 0.471232889604126 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.616190353032458 0.5082840431589 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

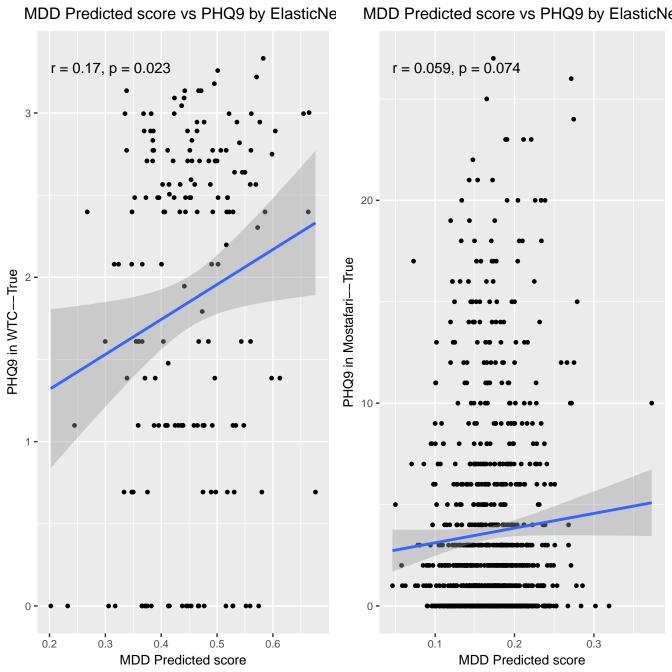
Design setting are:
Log transformed PHQ9.

Both gender are tested.
40 candidate genes by 2-step filtering.

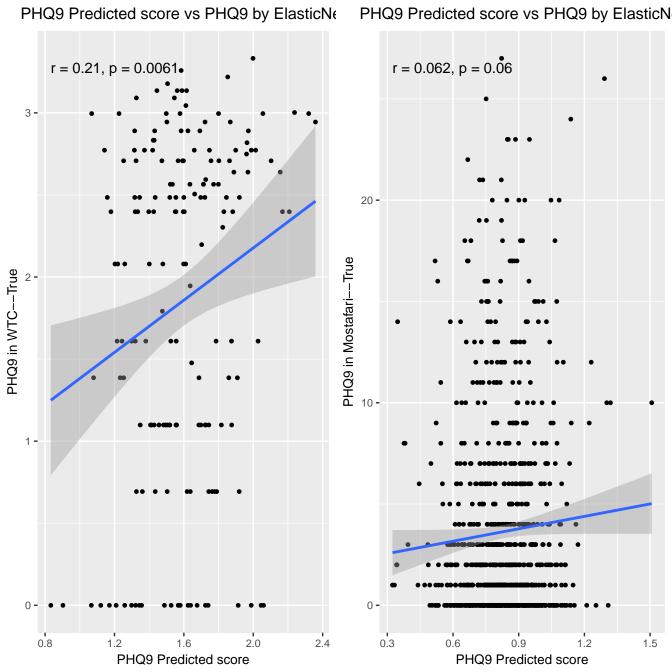
Design setting code are:

1,2,2

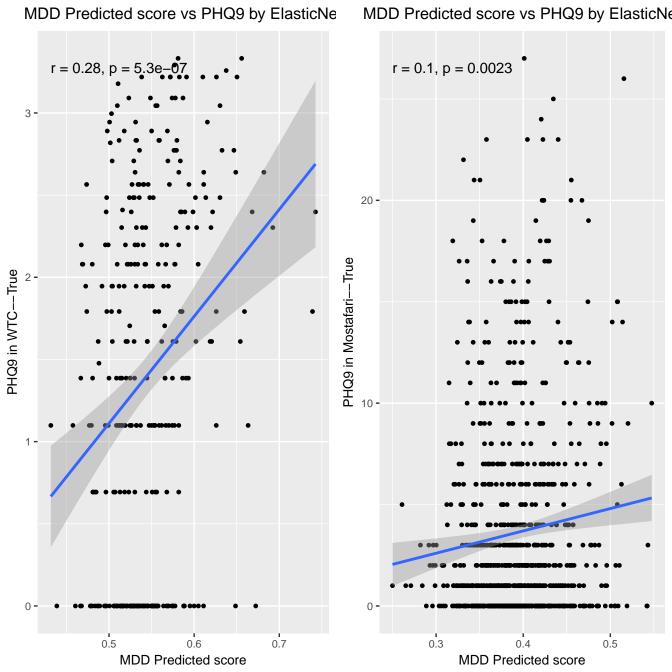
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.598840206185567 0.499484747102585 respectively



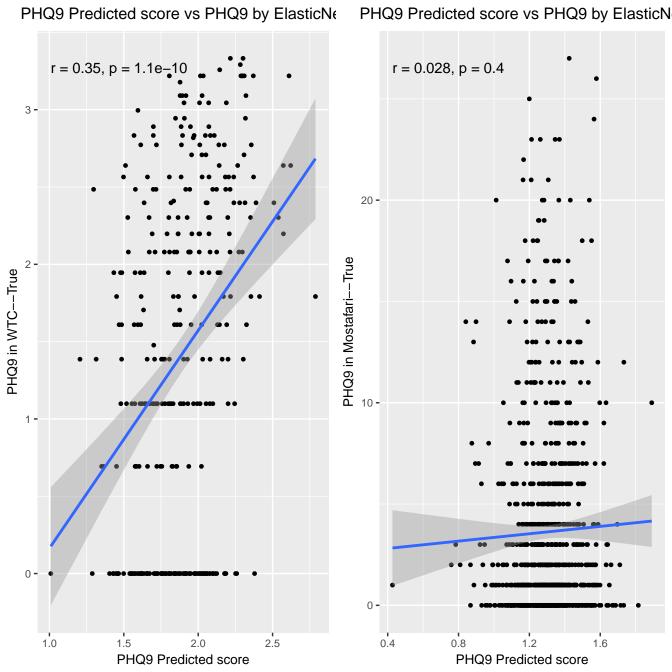
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.62733088335375 0.509766277521328 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.641919606234619 0.552384044570552 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.663649295228243 0.506335963711138 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples (x-median(x))/mad(x)

Design setting are: Original PHQ9.

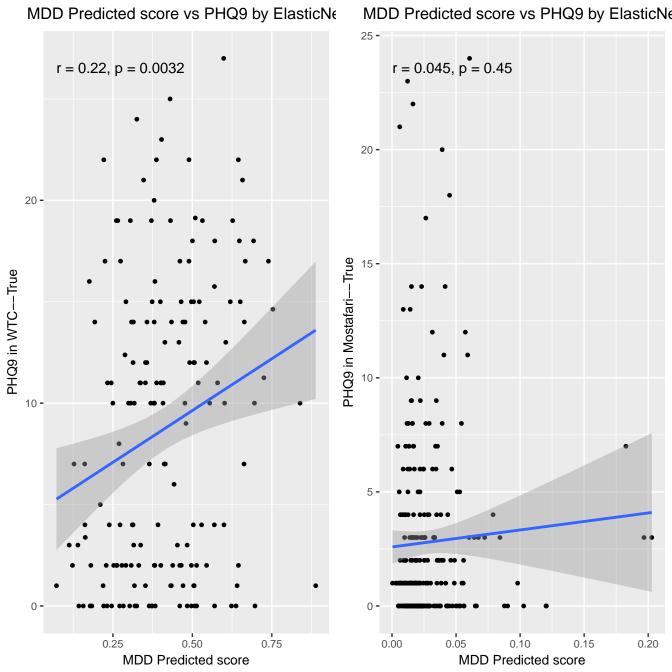
Only male are tested for Mostafavi.

Top 2000 genes by 2-step filtering.

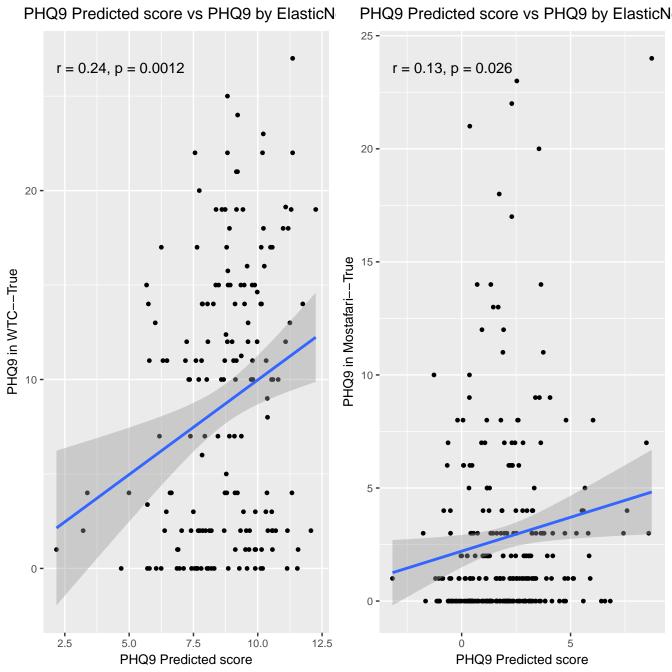
Design setting code are:

2,1,1

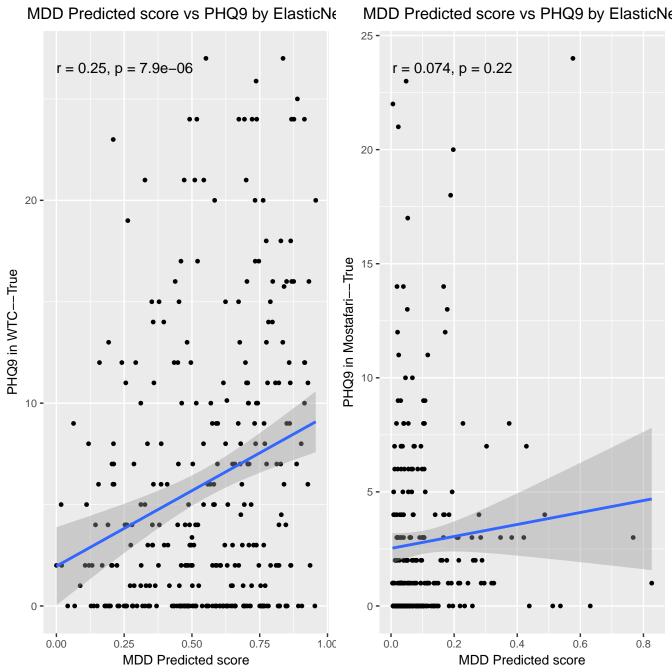
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.66340206185567 0.596320899335718 respectively



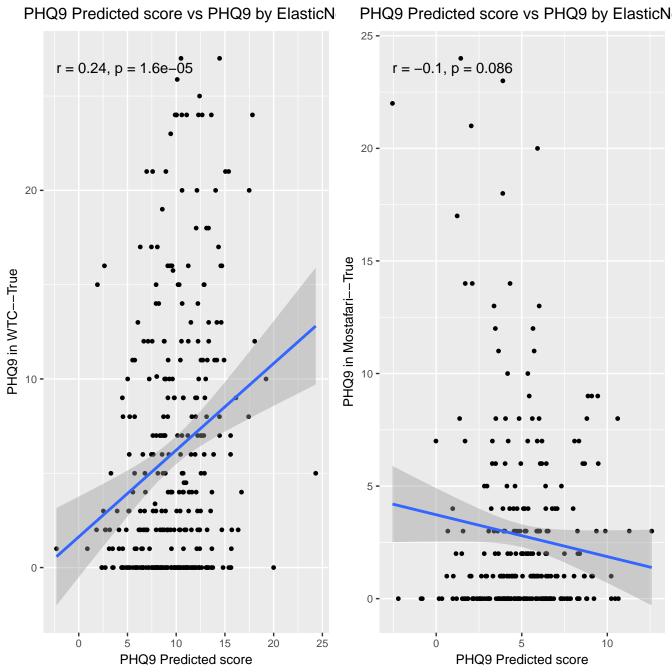
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.55954811487682 0.626752966558792 respectively



Prediction Model on MDD of Batch 3 and Mostafavi:
AUC are 0.688597210828548 0.523647305967183 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.624682098366309 0.46931243967524 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

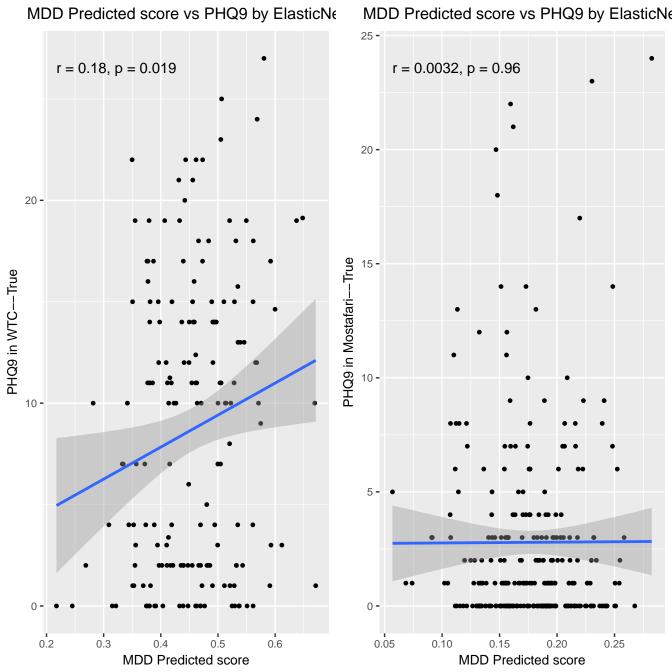
Design setting are: Original PHQ9.

2,1,2

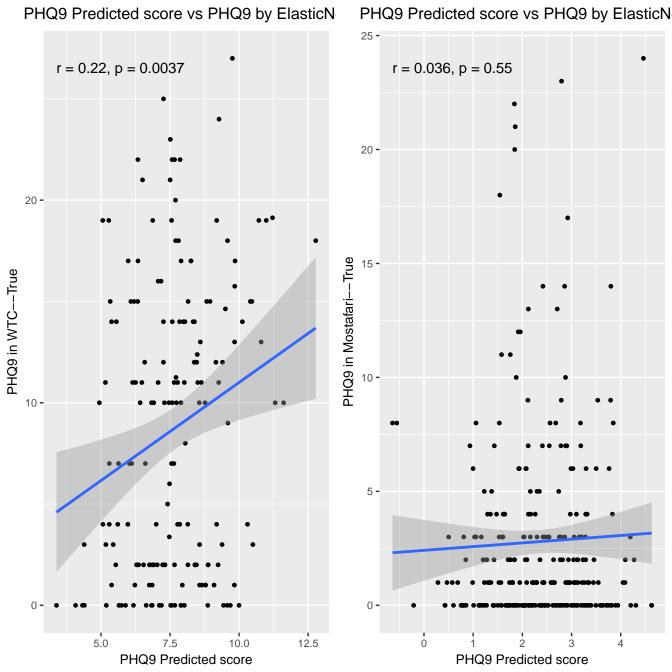
Only male are tested for Mostafavi.
40 candidate genes by 2-step filtering.

Design setting code are:

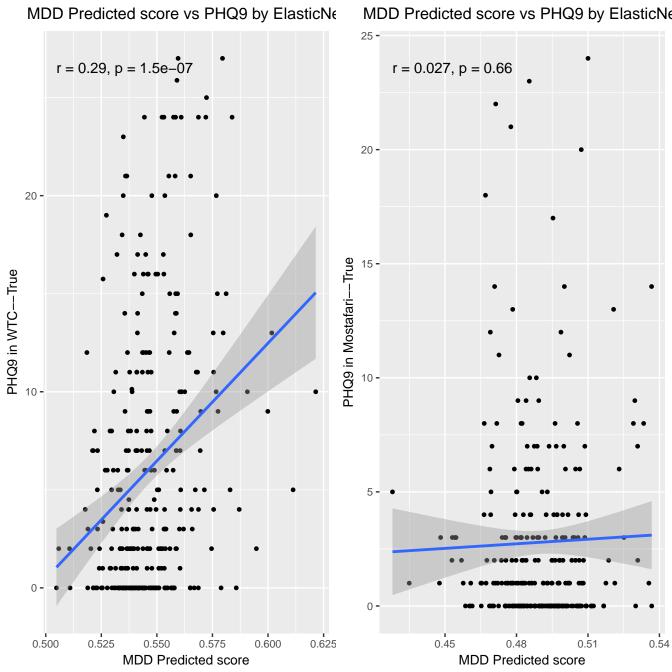
Prediction Model on MDD of Batch 4 and Mostafavi:
AUC are 0.584149484536083 0.473740986771135 respectively



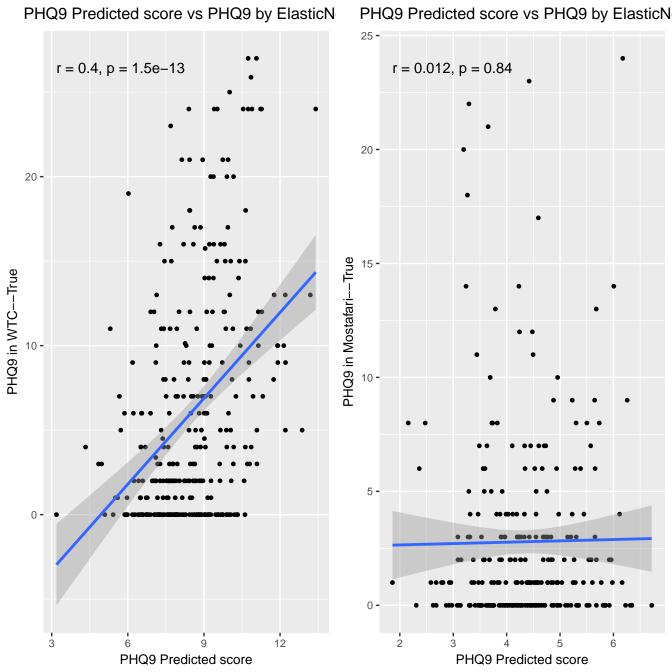
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.625017013747108 0.483222619655936 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.643068088597211 0.530517231590303 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.691883270830639 0.492136490092545 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

Design setting are: Original PHQ9.

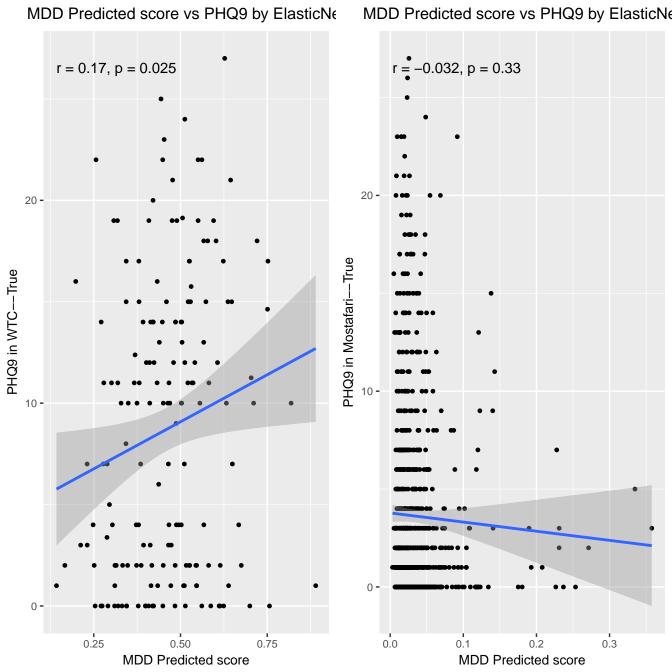
2,2,1

Both gender are tested.

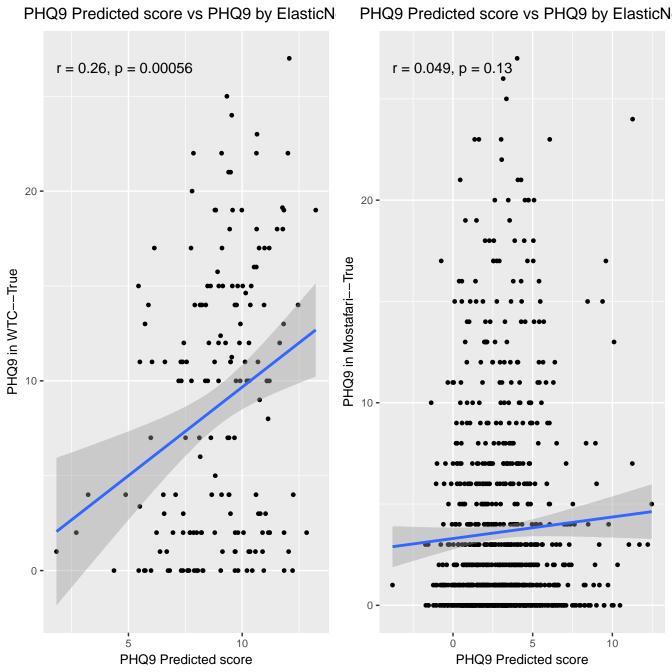
Top 2000 genes by 2-step filtering.

Design setting code are:

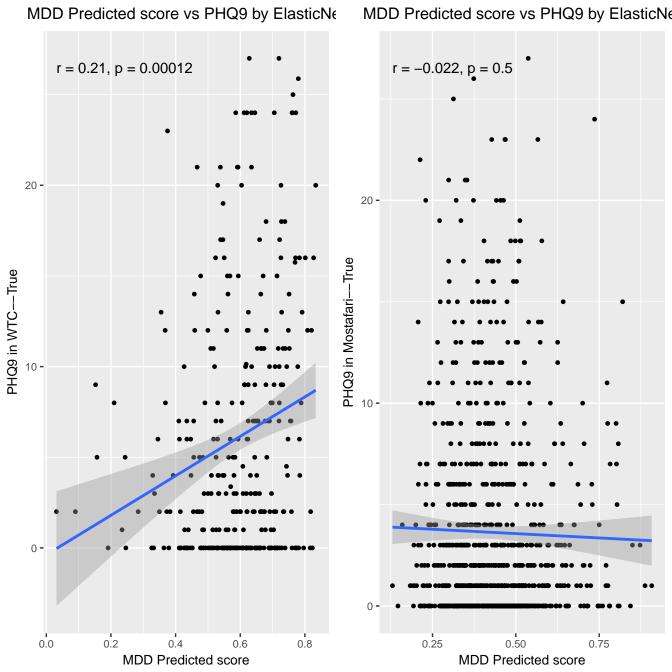
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.633118556701031 0.522555842591416 respectively



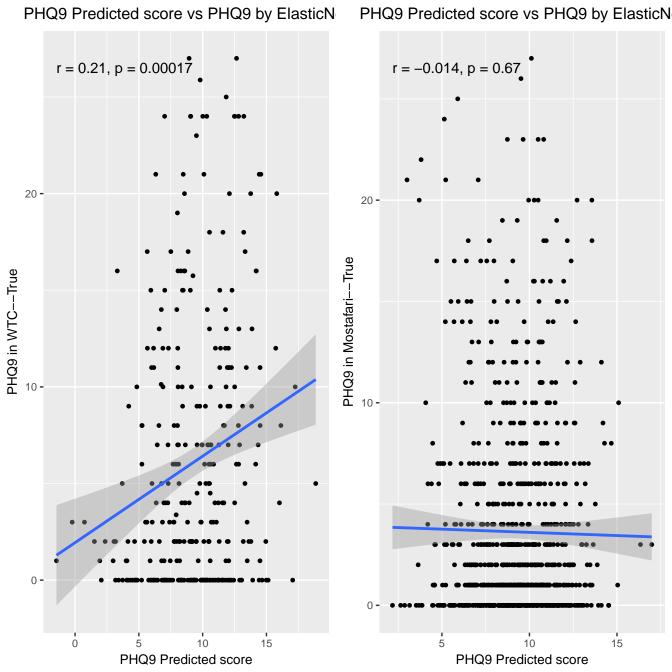
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.567578603511637 0.555466150943219 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.662920426579163 0.487730393333239 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.608517608517608 0.526066150002117 respectively



PHQ9 MDD prediction with genes log transformed and scale by samples :(x-median(x))/mad(x)

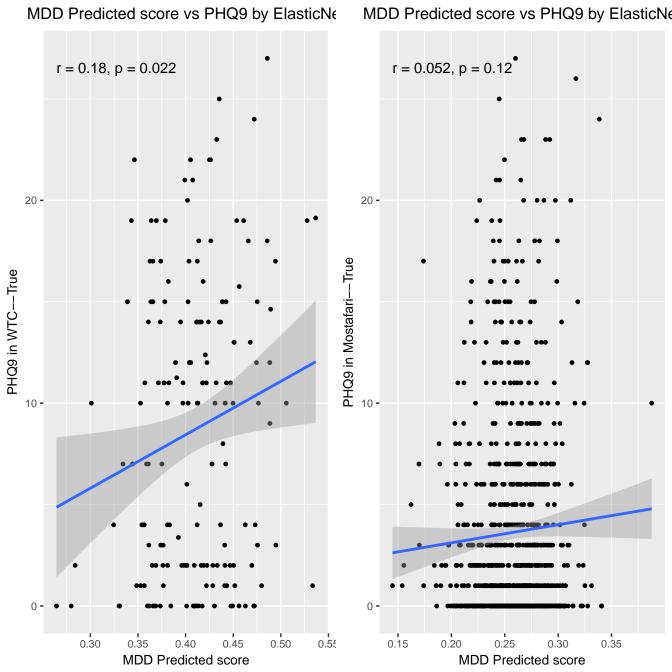
Design setting are: Original PHQ9.

2,2,2

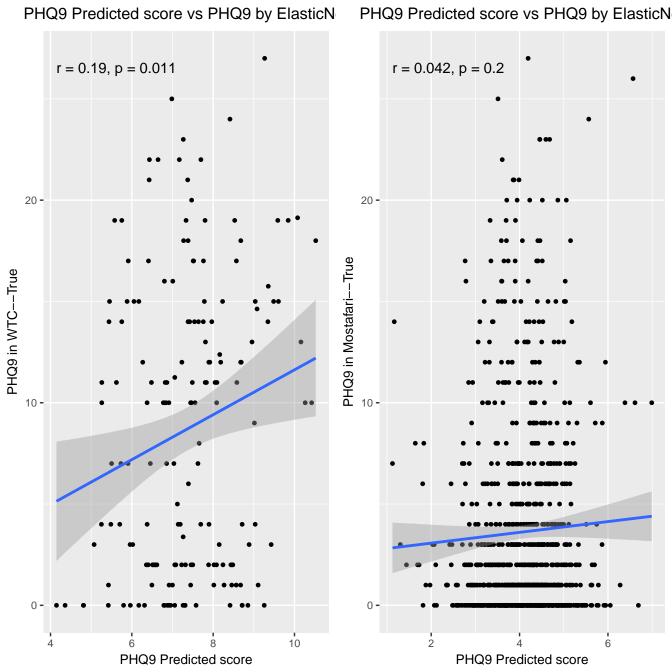
Both gender are tested.
40 candidate genes by 2-step filtering.

Design setting code are:

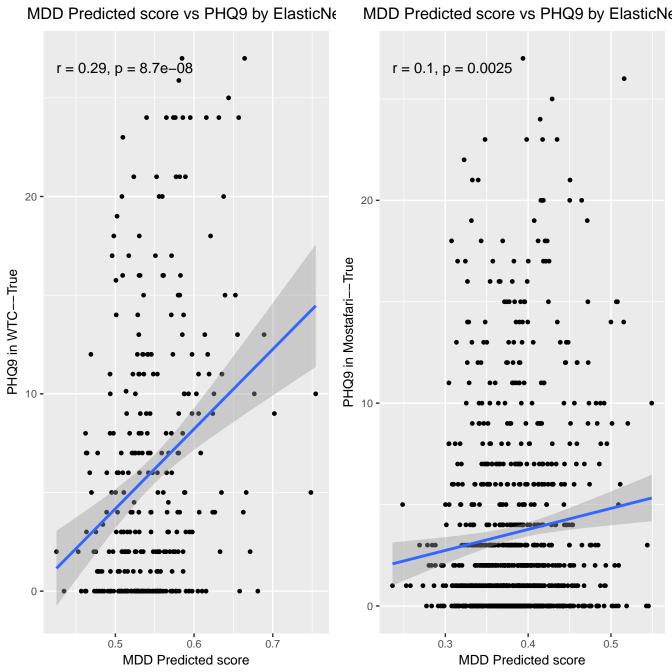
Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.581443298969072 0.490737211611306 respectively



Prediction Model on MDD of Batch 4 and Mostafavi: AUC are 0.613992105621342 0.499390636984335 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.641837571780148 0.551640574636382 respectively



Prediction Model on MDD of Batch 3 and Mostafavi: AUC are 0.670287512392776 0.52565206548182 respectively

