

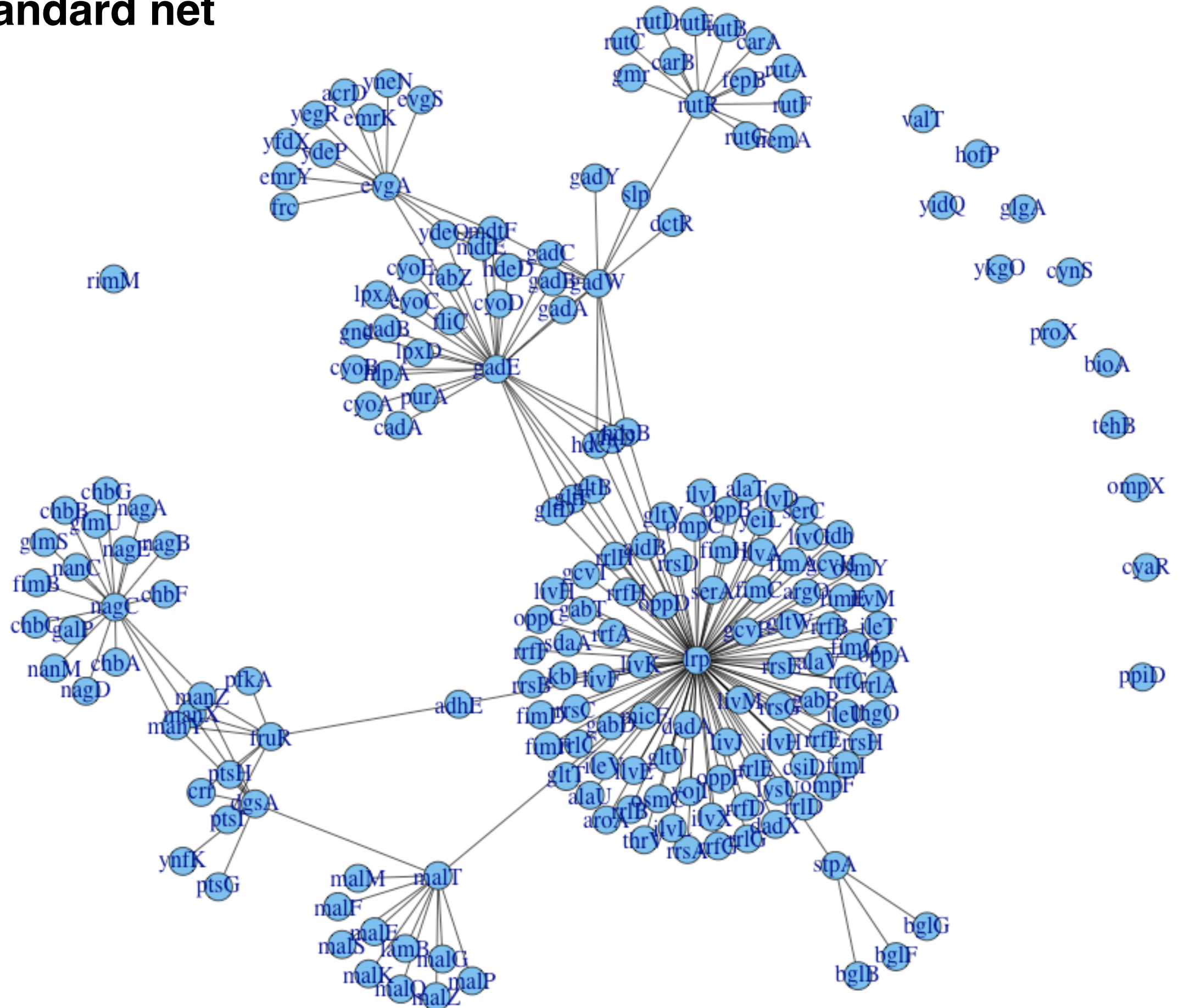
# Regression2Net

Preliminary results Jan/2014

# Golden standard net

200 nodes

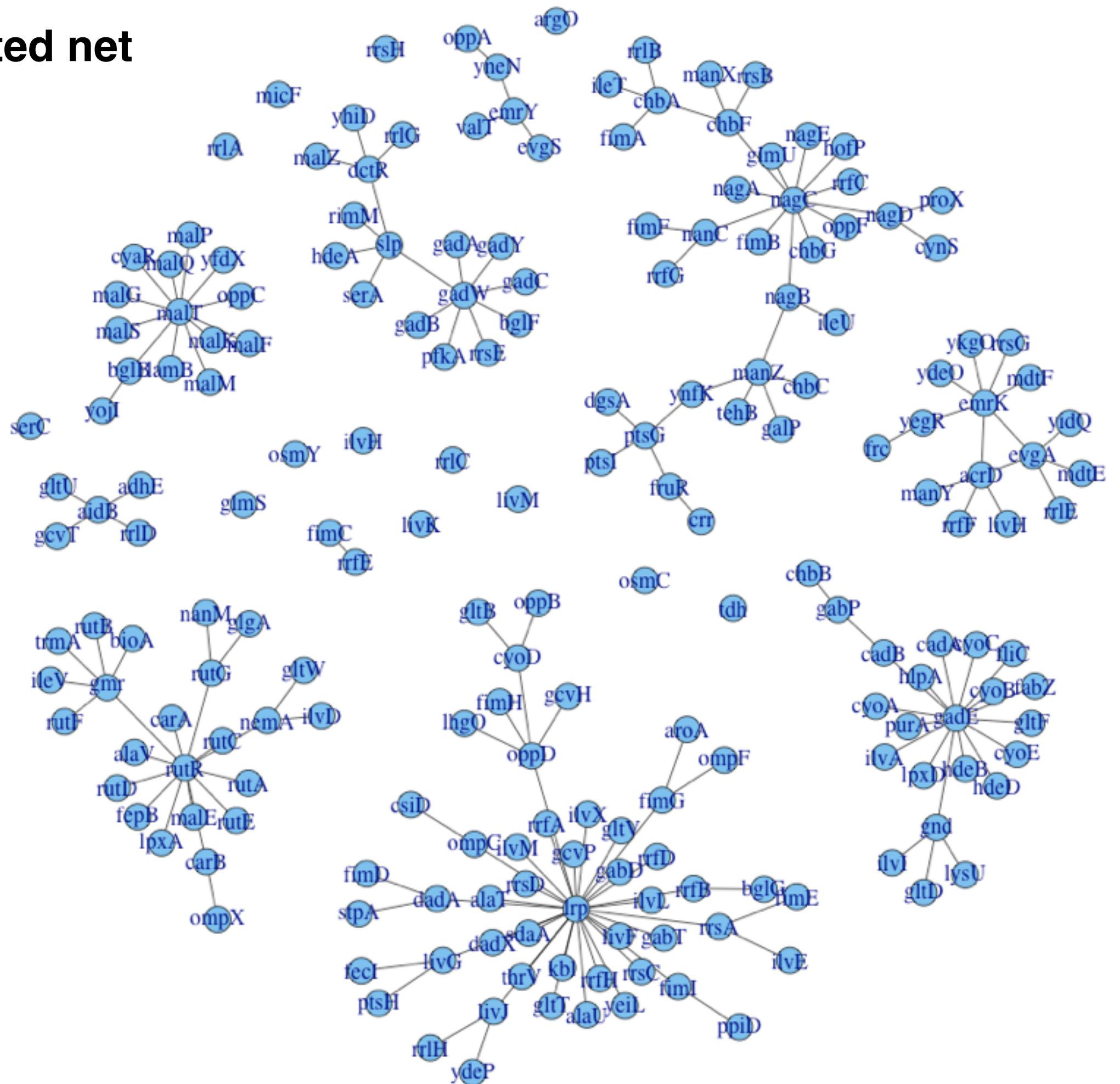
212 edges



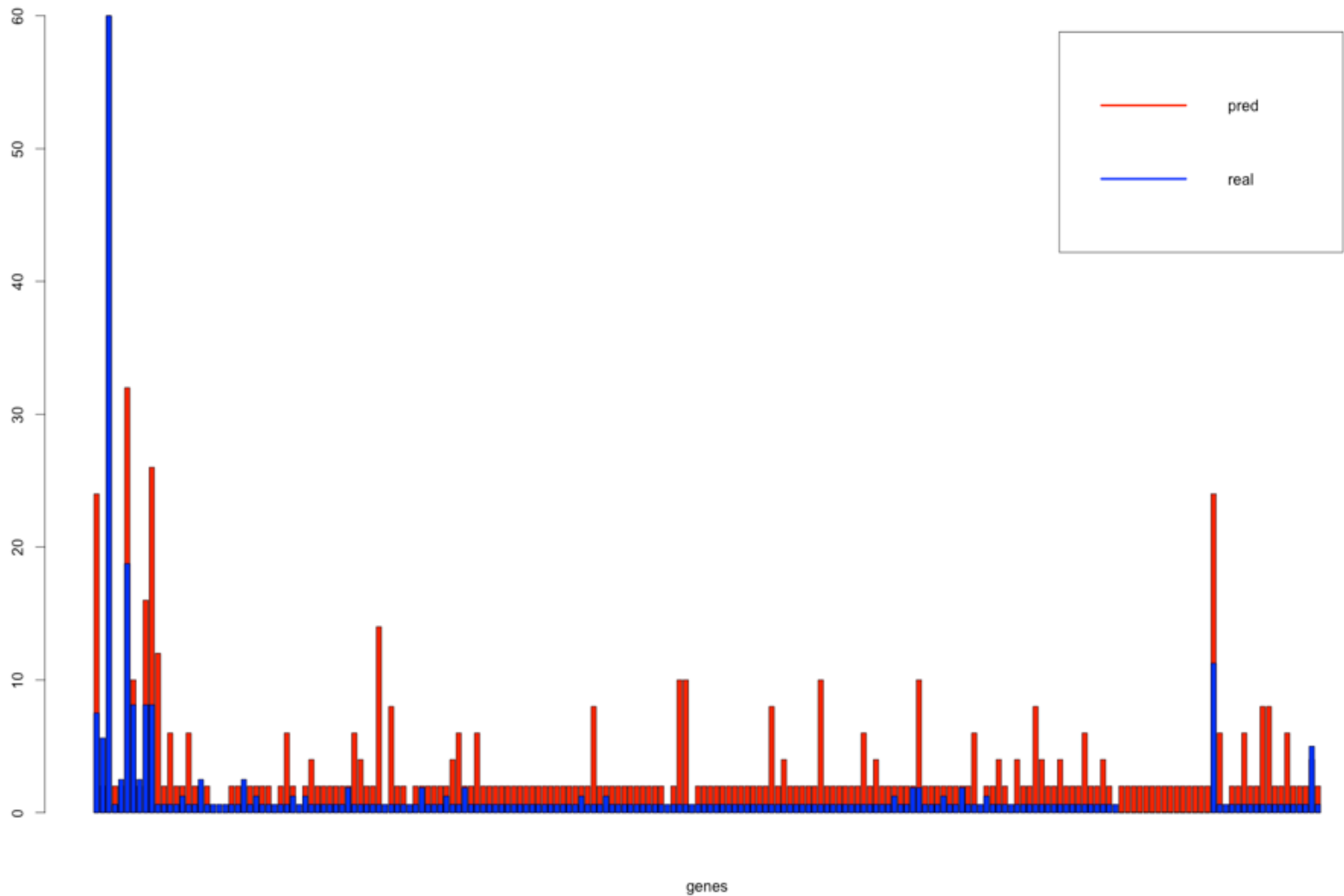
## Best predicted net

200 nodes

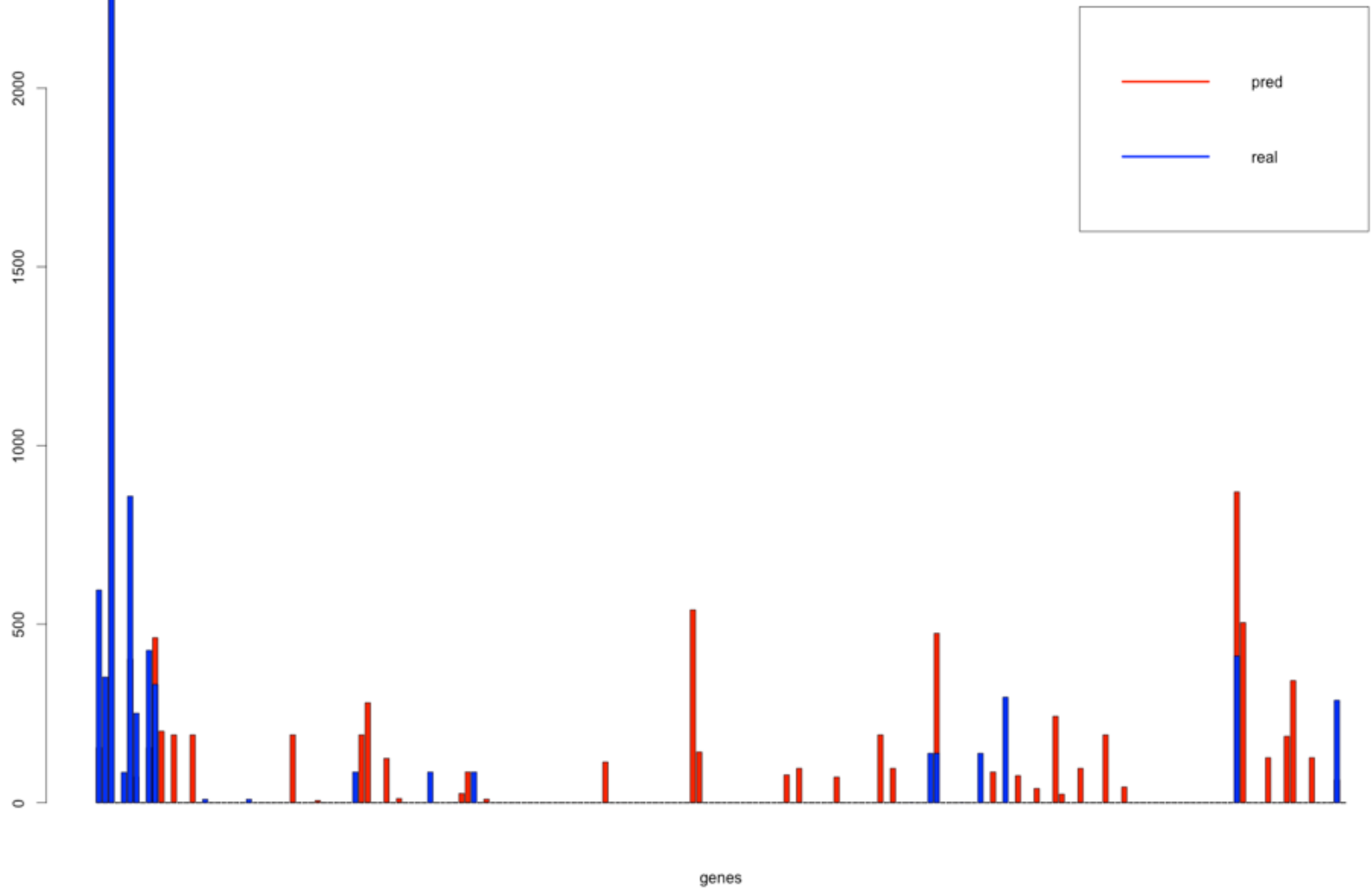
360 edges

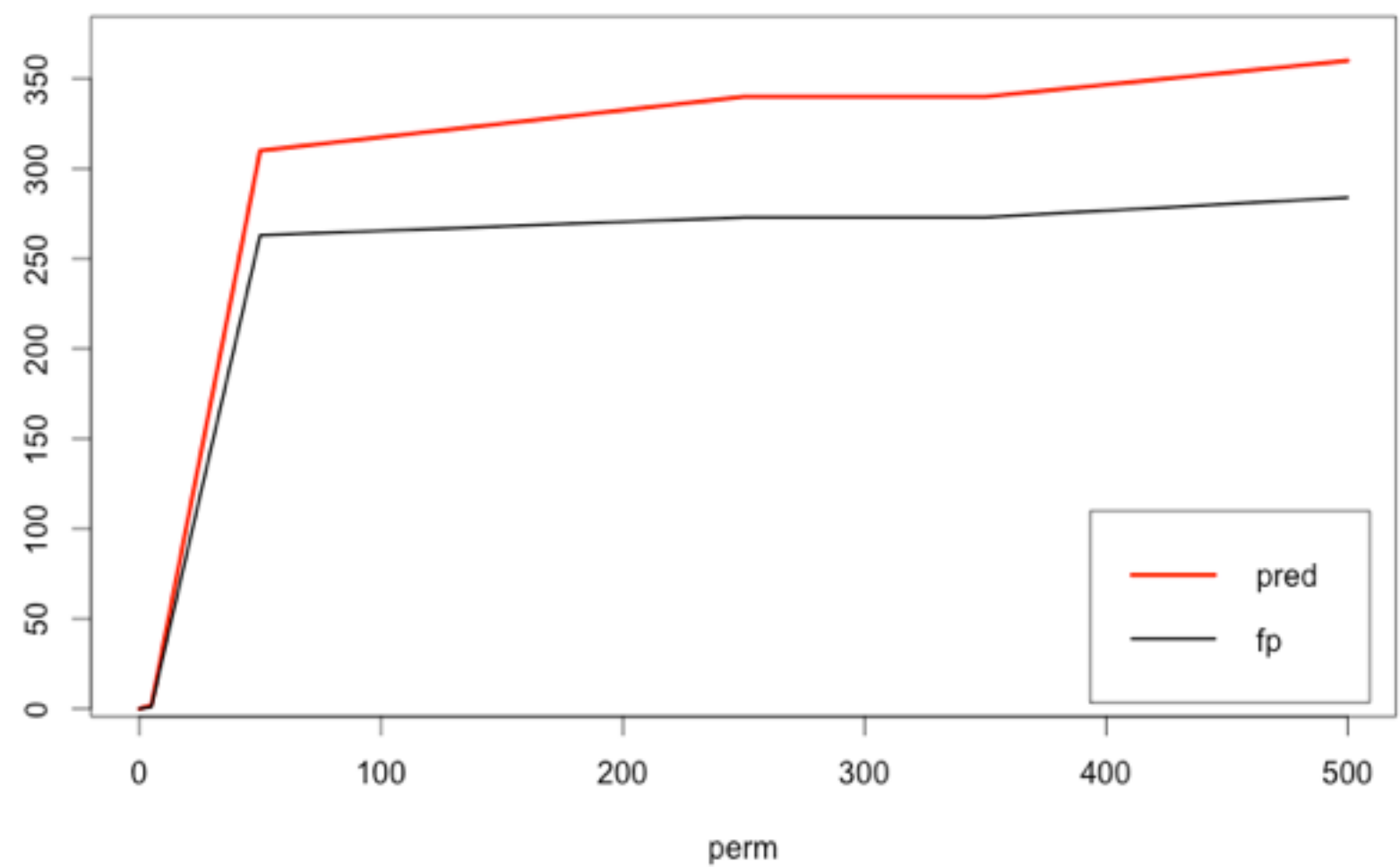
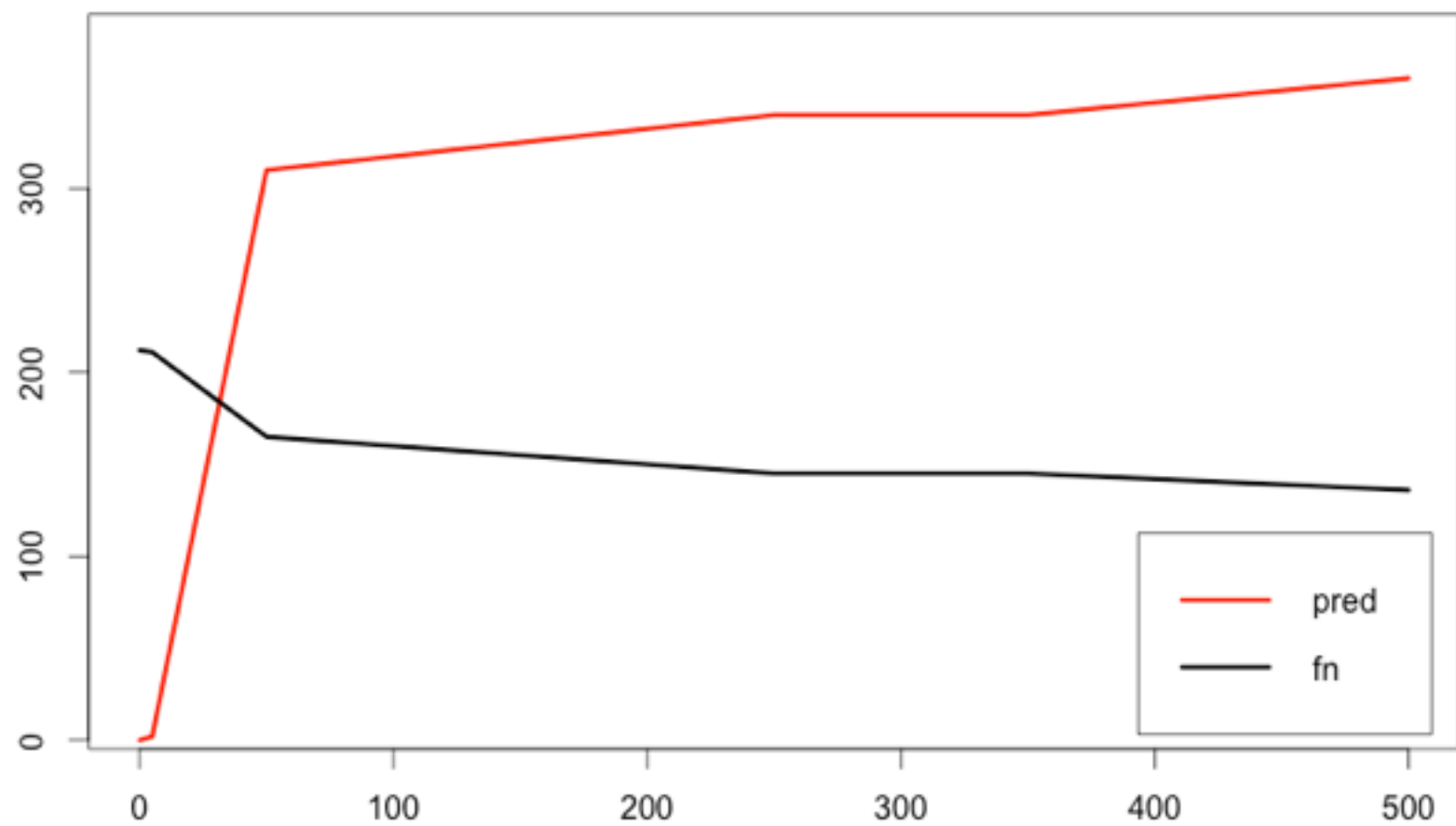


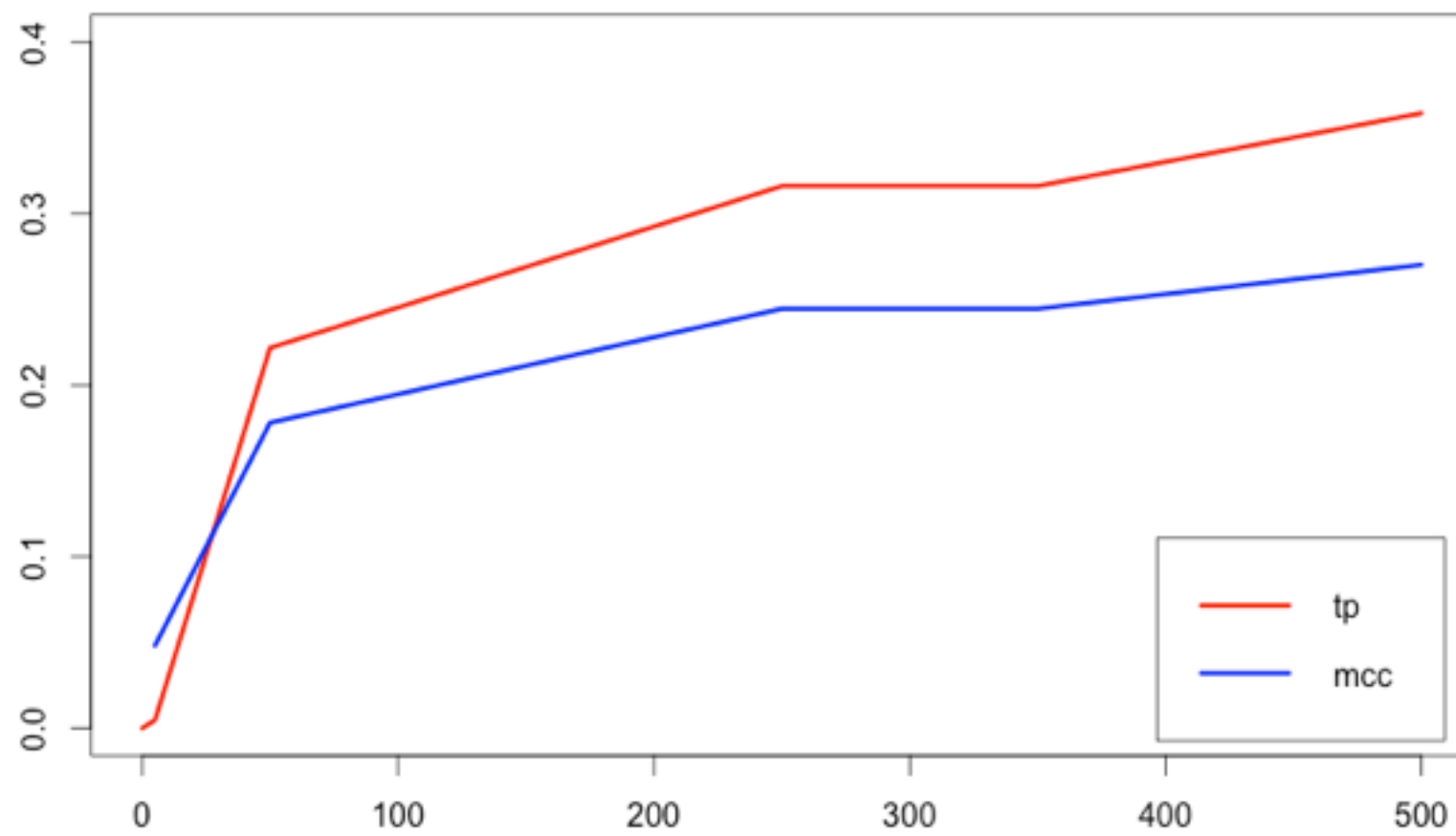
# Degree correlation 0.86



# Betweenness correlation 0.83

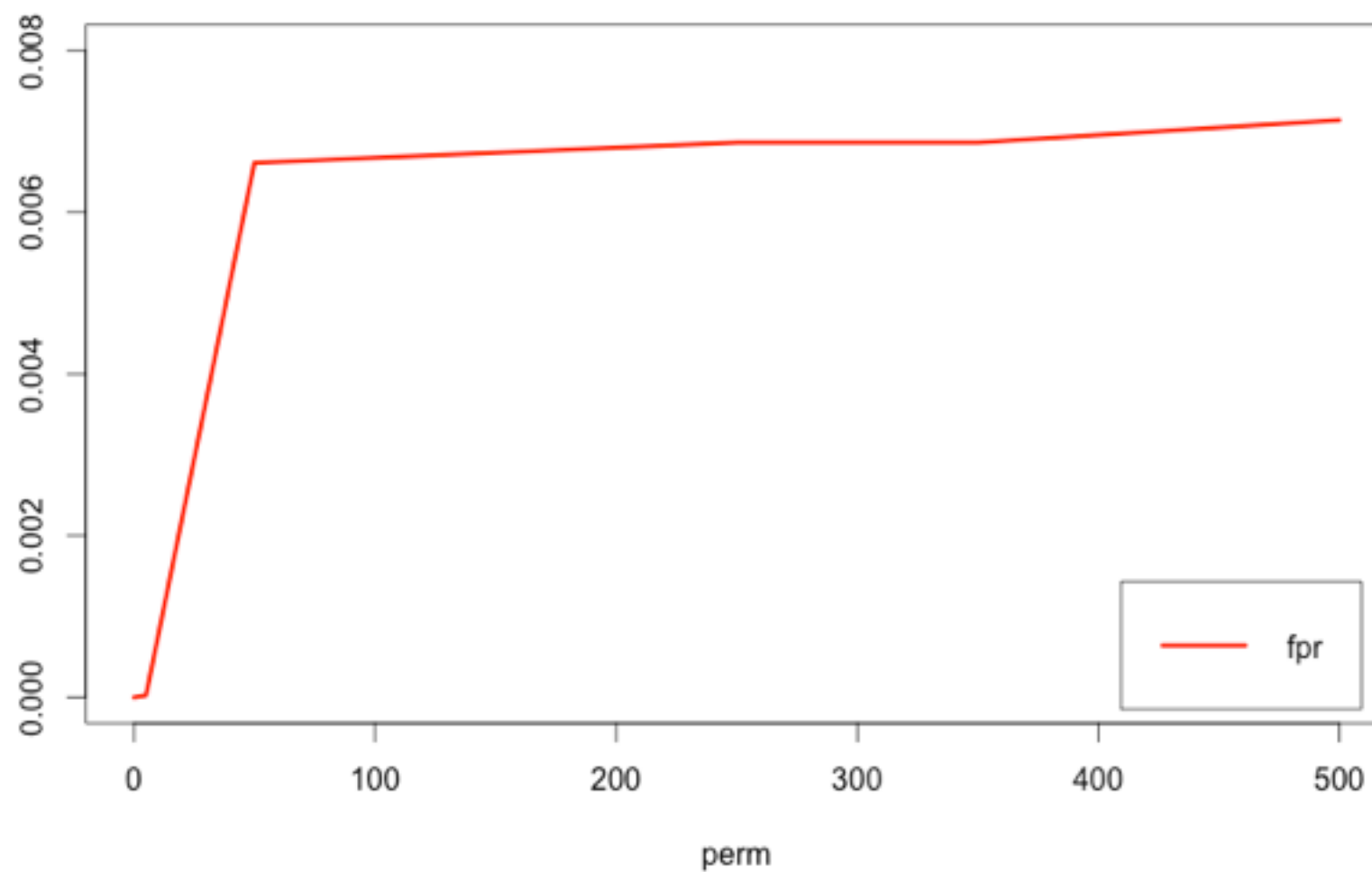






### Matthews Correlation Coefficient

$$\frac{TP \times TN - FP \times FN}{\sqrt{(TP + FP)(TP + FN)(TN + FP)(TN + FN)}}$$



# Where is Cltrees?

Precision =  $TP/(TP+FP)$  = 0.13  
**our result 0.21**

False discovery rate = 0.85  
**our result 0.73**

GENIE3 is not better than Cltree