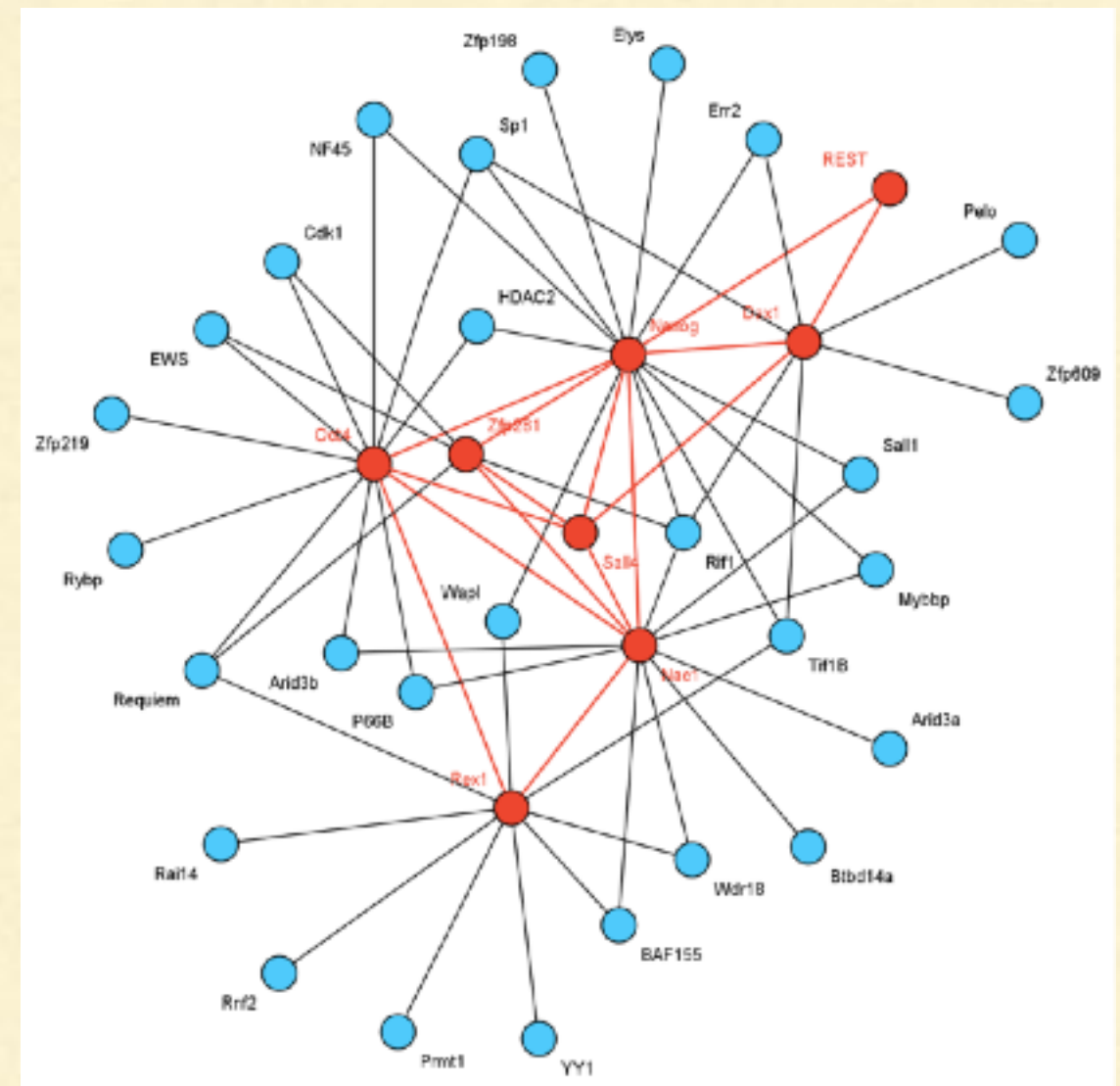


# NETWORK-BASED CLASSIFIER (NBC)

- leverages the underlying gene network
- $f(g) = x_1 * g_1 + \dots + x_k * g_k$
- solve system of equations
- root mean square error
  - predicted - actual



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# WHAT IS STABILITY?

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- how a machine learning algorithm performs if data is perturbed
    - looking for robust algorithms - does not produce a wildly different result for very small change in the input data
  - types of perturbation considered here
    - alter every feature (gene) by some amount (test I)
    - alter a subset of features by some amount (test II)
      - best way to select the features? (test III)
-