

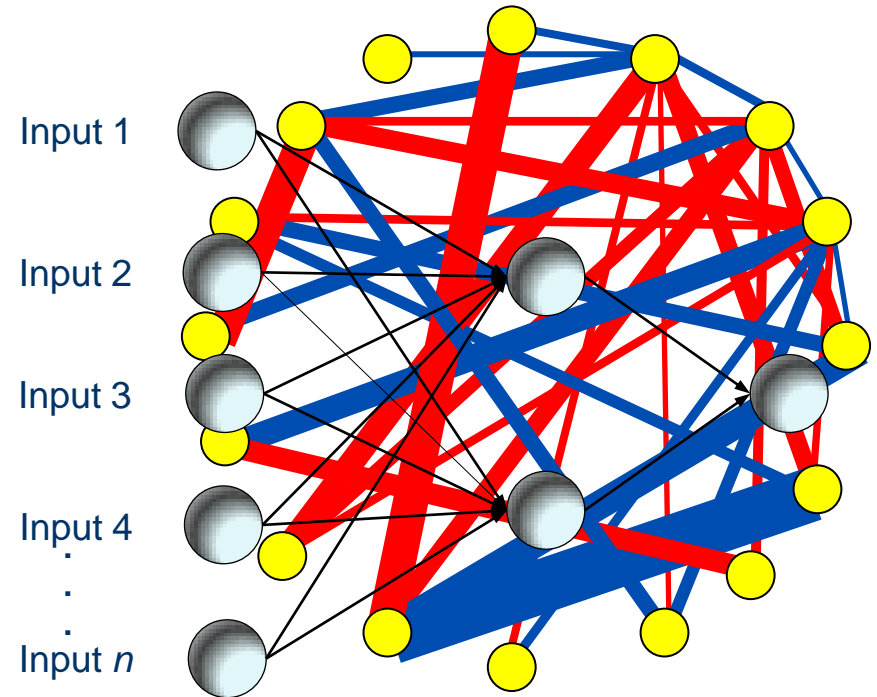
PB 12

Artificial Neural Network Algorithm for Interaction Network Inference in Genomic Array Studies

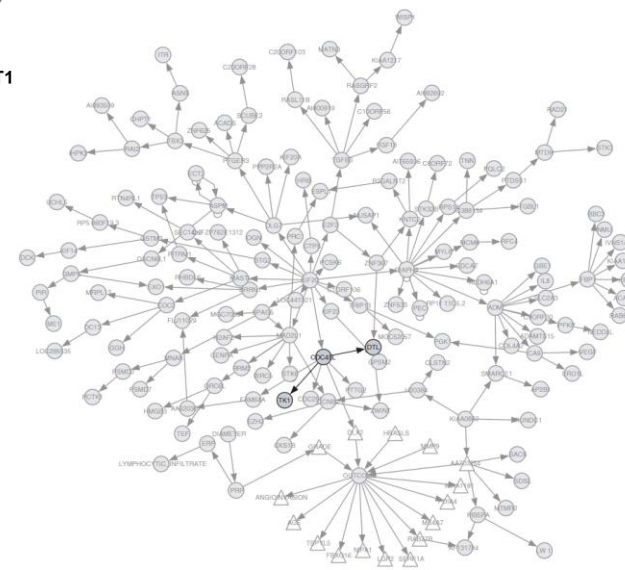
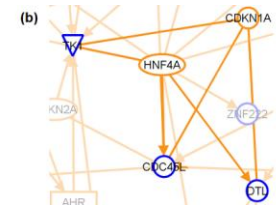
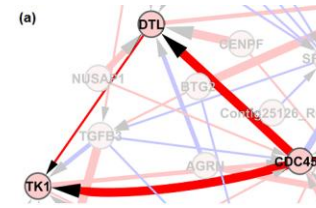
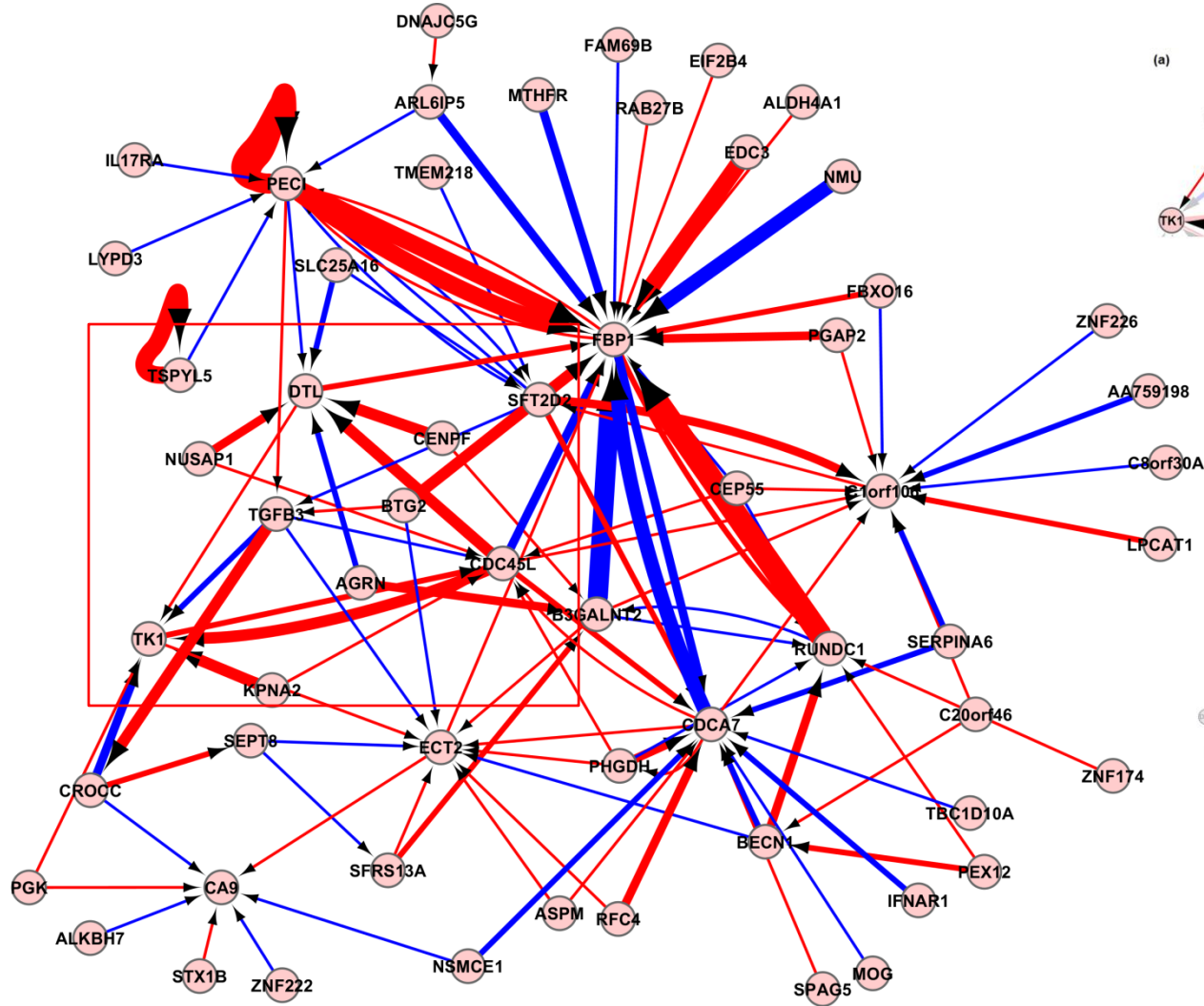
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Principle

- Artificial Neural Network based algorithm.
- Combination of factors to predict one.
- Multifactorial approach.
- Scoring and filtering steps.
- Can be applied to a wide range of data.



Applications, results and validation



van de Veer, C., Delaunay, J., van der Vliet, A., M. J. M. de Leeuw, D., and D. A. M. M. Bo. Predicting the prognosis of breast cancer by integrating clinical and genomic data with Bayesian networks. *Bioinformatics*, 22(4): 518-524, 2006. The expression profiling predicts clinical outcome of breast cancer, *Nature* 415(6871):530-536, 2002.