

Prediction in Protein-Protein Interaction Networks

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Abstract:

Protein interactions play a vital part in the functions of a cell. We propose to draw on interaction data using ideas from social network analysis to predict protein characteristics, and to predict and validate interactions in protein interaction networks. For predicting protein characteristics, an approach based on pairwise interactions only performs best, whereas for predicting interactions, exploring local clustering in the network proves beneficial; our method is based on three-way interactions.

This is joint work with Pao-Yang Chen and Charlotte Deane, Oxford.

References:

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