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## Protein Purification and Analysis I: Methods and Applications

By Iconcept Press

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Chapter 1 is a review of the bioinformatics literature on protein-protein interactions (PPIs). A protein-protein interaction network (PPIN) is a collection of PPIs, often deposited in online databases. PPINs may complement other datasets, such as protein structural information. Chapter 2 describes the usability and advantages of the micro-patterning technique to study protein-protein interactions in a live cell context. It summarizes results achieved so far, discusses latest technical developments and describes potential future applications. Chapter 3 describes a strategy for identification of protein peptides cross-linked to radiolabeled RNA derivatives in specific complexes of proteins or ribonucleoproteins with these derivatives. This strategy is alternative to the identification based on mass-spectrometry and can be used for determination of protein sites involved in interactions with specific RNAs when mass-spectrometry is not applicable. Chapter 4 describes biochemical methods for assessing interaction between distinct ligand-gated channels. This chapter proposes also methods to examine functional impact of these receptor-receptor interactions in the nervous system. Chapter 5 proposes a statistical approach based on Structural Equation Modeling, in combination with step-wise factor analysis, to infer protein-DNA interactions...


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