



## Protein Interaction Networks: Computational Analysis (Hardback)

By Aidong Zhang

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2009. Hardback. Condition: New. Language: English . Brand New Book. The analysis of protein-protein interactions is fundamental to the understanding of cellular organization, processes, and functions. Proteins seldom act as single isolated species; rather, proteins involved in the same cellular processes often interact with each other. Functions of uncharacterized proteins can be predicted through comparison with the interactions of similar known proteins. Recent large-scale investigations of protein-protein interactions using such techniques as two-hybrid systems, mass spectrometry, and protein microarrays have enriched the available protein interaction data and facilitated the construction of integrated protein-protein interaction networks. The resulting large volume of protein-protein interaction data has posed a challenge to experimental investigation. This book provides a comprehensive understanding of the computational methods available for the analysis of protein-protein interaction networks. It offers an in-depth survey of a range of approaches, including statistical, topological, data-mining, and ontology-based methods. The author discusses the fundamental principles underlying each of these approaches and their respective benefits and drawbacks, and she offers suggestions for future research.



**READ ONLINE**  
[ 6.2 MB ]

### Reviews

*This publication is very gripping and exciting. Better then never, though i am quite late in start reading this one. I am very happy to inform you that here is the finest pdf i actually have read inside my very own daily life and could be he greatest publication for actually.*

-- **Dayana Aufderhar**

*I actually began reading this article pdf. It really is filled with wisdom and knowledge You wont sense monotony at at any time of the time (that's what catalogues are for concerning should you request me).*

-- **Ena Klein MD**