



Computational Approaches in Chlamydomonas reinhardtii for Effectual Bio-hydrogen Production

By Pratyoosh Shukla

Springer-Verlag GmbH Mai 2015, 2015. Taschenbuch. Condition: Neu. Neuware - This book describes the feasibility of using molecular dynamics as a screening technique to identify the stability of HydA1 and PetF interactions. Structure-based computational approaches are necessary to recognize and characterize protein-protein complexes and their functions. It introduces the idea that for specific proteins, homology modeling is the most effective technique and that docking algorithms are an increasingly powerful tool for providing a detailed explanation of such interactions. This book is a useful source of information on biomass-based biofuels for researchers in the field of bio-hydrogen and bioinformatics techniques. Biofuel and bioenergy produced from unicellular microalgae Chlamydomonas reinhardtii is a clean energy source and providing information about functional optimization in HydA1 and PetF interactions will help researchers to adopt swift screening methods to identify key protein complexes and their functions. The book also provides an introduction to hydrogenases and associated Chlamydomonas reinhardtii, which is a useful model microorganism for research on biofuel production. The book focuses on the in silico methods such as phylogenetic studies, homology modeling, molecular docking, electrostatic studies and conformational analysis, which have the potential to become the most cost-effective methods for bio-fuel production. This book...



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