

Methods in Molecular Biology 1215

John M. Walker, *Series Editor*

Andreas Kukol *Editor*

## Molecular Modeling of Proteins

*Second Edition*

*Molecular Modeling of Proteins, Second Edition* provides a theoretical background of various methods available and enables non-specialists to apply methods to their problems by including updated chapters and new material not covered in the first edition. This detailed volume opens by featuring classical and advanced simulation methods as well as methods to set-up complex systems such as lipid membranes and membrane proteins, and continues with chapters devoted to the simulation and analysis of conformational changes of proteins, computational methods for protein structure prediction, usage of experimental data in combination with computational techniques, as well as protein-ligand interactions, which are relevant in the drug design process. Written for the highly successful *Methods in Molecular Biology* series, chapters include thorough introductions, step-by-step instructions, and notes on troubleshooting and avoiding common pitfalls.

Update-to-date and authoritative, *Molecular Modeling of Proteins, Second Edition* aims to aid researchers in the physical, chemical, and biosciences interested in utilizing this powerful technology.

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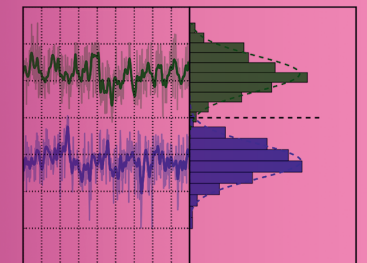


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*2nd  
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