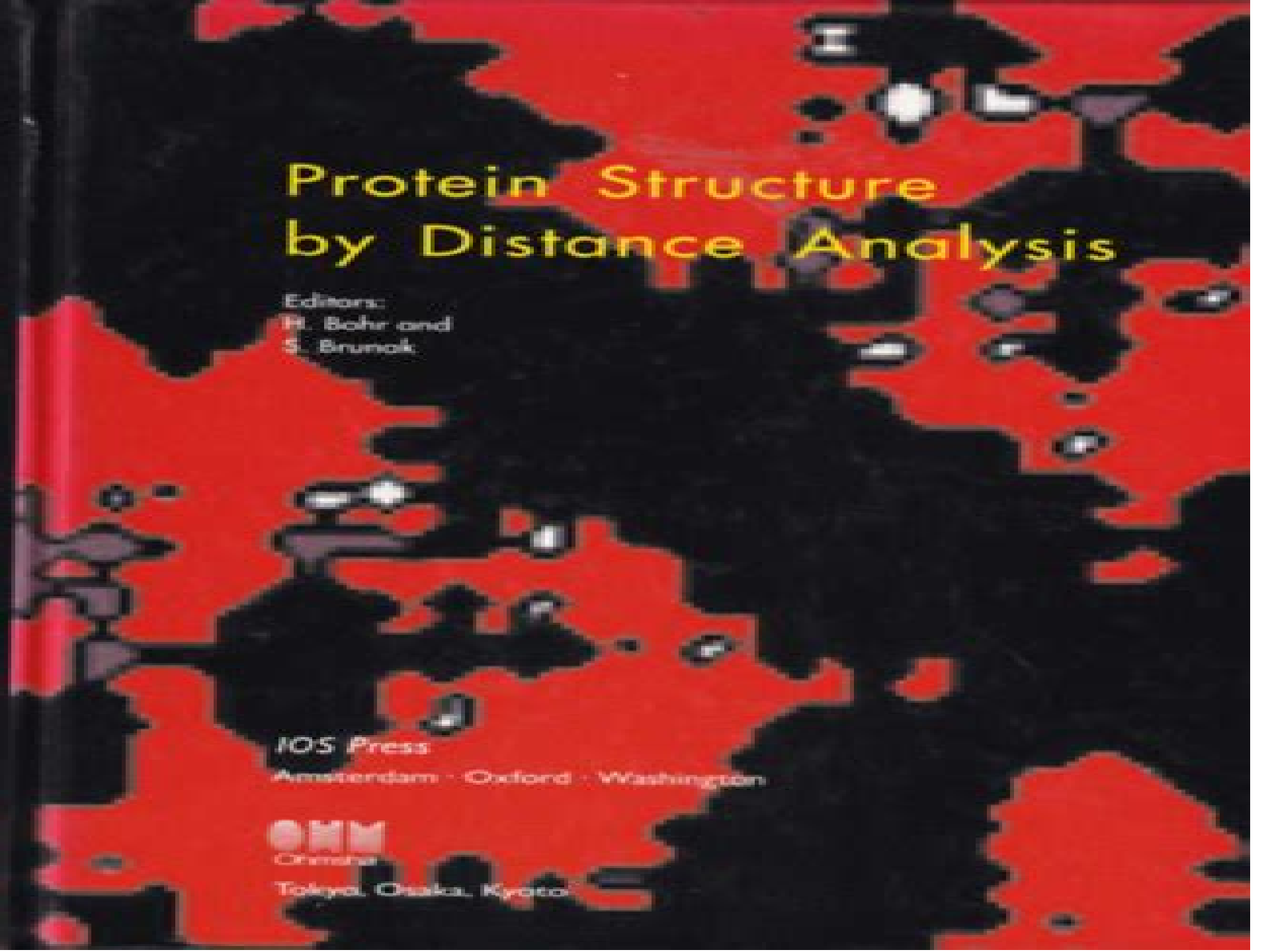




Protein Structure by Distance Analysis

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Protein Structure By Distance Analysis

Henrik Bohr, S. Brunak



Protein Structure By Distance Analysis:

Protein Structure by Distance Analysis Henrik Bohr, S. Brunak, 1994

Protein Structure Prediction David

Webster, 2008-02-03 The number of protein sequences grows each year yet the number of structures deposited in the Protein Data Bank remains relatively small The importance of protein structure prediction cannot be overemphasized and this volume is a timely addition to the literature in this field Protein Structure Prediction Methods and Protocols is a departure from the normal Methods in Molecular Biology series format By its very nature protein structure prediction demands that there be a greater mix of theoretical and practical aspects than is normally seen in this series This book is aimed at both the novice and the experienced researcher who wish for detailed information in the field of protein structure prediction a major intention here is to include important information that is needed in the day to day work of a research scientist important information that is not always decipherable in scientific literature Protein Structure Prediction Methods and Protocols covers the topic of protein structure prediction in an eclectic fashion detailing aspects of prediction that range from sequence analysis a starting point for many algorithms to secondary and tertiary methods on into the prediction of docked complexes an essential point in order to fully understand biological function As this volume progresses the authors contribute their expert knowledge of protein structure prediction to many disciplines such as the identification of motifs and domains the comparative modeling of proteins and ab initio approaches to protein loop side chain and protein prediction

Statistics in Molecular Biology and Genetics Françoise Seillier-Moisewitsch, 1999

Modelling of Biomolecular Structures and Mechanisms A. Pullman, Joshua Jortner, 2012-12-06

Gathering together a number of the best experts in the world the 27th Jerusalem Symposium was devoted to the theme of the modelling of biomolecular structures and mechanisms As a result of recent growth in both importance and audience the papers contained in this volume present a thorough evaluation of the status of the present knowledge in this field The main topics covered by this year's Symposium include nucleic acids and their interactions proteins and their interaction membranes and their interactions enzymatic processes and the pharmacological and medical aspects of these subjects Readers will benefit from the interdisciplinary approach which provides an extensive coverage of both theoretical and experimental advances

Protein Folds Henrik Bohr, Soren Brunak, 1995-10-20 Written by outstanding scientists in physics and molecular biology this book addresses the most recent advances in the analysis of the protein folding processes and protein structure determination Emphasis is also placed on modelling and presentation of experimental results of structural membrane bound proteins Many color plates help to illustrate structural aspects covered including Defining folds of protein domains Structure determination from sequence Distance geometry Lattice theories Membrane proteins Protein Ligand interaction Topological considerations Docking onto receptors All analysis is presented with proven theory and experimentation Protein Folds A Distance Based Approach is an excellent text reference for biotechnologists and biochemists as well as graduate students studying in the research sciences

Mathematical Methods for Protein Structure Analysis and Design Concettina Guerra, Sorin Istrail, 2003-06-25 The papers collected in this volume reproduce contributions by leading scholars to an international school and workshop which was organized and held with the goal of taking a snapshot of a discipline undergoing rapid growth. Indeed, the area of protein folding, docking, and alignment is developing in response to needs for a mix of heterogeneous expertise spanning biology, chemistry, mathematics, computer science, and statistics among others. Some of the problems encountered in this area are not only important for the scientific challenges they pose but also for the opportunities they disclose in terms of medical and industrial exploitation. A typical example is offered by protein-drug interaction docking, a problem posing daunting computational problems at the crossroads of geometry, physics, and chemistry and at the same time a problem with unimaginable implications for the pharmacopoeia of the future. The school focused on problems posed by the study of the mechanisms hindering protein folding and explored different ways of attacking these problems under objective evaluations of the methods. Together with a relatively small core of consolidated knowledge and tools, important reactions were brought to this effort by studies in a multitude of directions and approaches. It is obviously impossible to predict which, if any, among these techniques will prove completely successful, but it is precisely the implicit dialectic among them that best conveys the current flavor of the field. Such unique diversity and richness inspired the format of the meeting and also explains the slight departure of the present volume from the typical format in this series: the exposition of the current state of the field is complemented here by a selection of qualified specialized contributions.

Distance Measurements in Biological Systems by EPR Lawrence J. Berliner, Sandra S. Eaton, Gareth R. Eaton, 2006-02-20 Distance measurements in biological systems by EPR. The foundation for understanding function and dynamics of biological systems is knowledge of their structure. Many experimental methodologies are used for determination of structure, each with special utility. Volumes in this series on Biological Magnetic Resonance emphasize the methods that involve magnetic resonance. This volume seeks to provide a critical evaluation of EPR methods for determining the distances between two unpaired electrons. The editors invited the authors to make this a very practical book with specific numerical examples of how experimental data is worked up to produce a distance estimate and realistic assessments of uncertainties and of the range of applicability, along with examples of the power of the technique to answer biological problems. The first chapter is an overview by two of the editors of EPR methods to determine distances with a focus on the range of applicability. The next chapter, also by the editors, reviews what is known about electron spin relaxation times that are needed in estimating distances between spins or in selecting appropriate temperatures for particular experiments. Albert Beth and Eric Hustedt describe the information about spin-spin interaction that one can obtain by simulating CW EPR line shapes of nitroxyl radicals. The information in fluid solution CW EPR spectra of dual spin-labeled proteins is illustrated by Hassane Mchaourab and Eduardo Perozo.

Dynamics, Structure, and Function of Biological Macromolecules Oleg Jardetzky, Michael D. Finucane, 2001 A collection of articles

looking at modern structural biology summarizing the applications of physical methods such as x ray diffraction high resolution nuclear magnetic resonance and molecular dynamics to the study of protein structure and dynamics There is a review of contemporary thoughts within the field looking at the mechanisms of allosteric transitions and allosteric control the transmission of information within protein structures and the role of dynamics in determining the specificity of protein ligand interactions There is also a look at future innovations

The Protein Folding Problem and Tertiary Structure Prediction
Kenneth M.Jr. Merz, Scott M. LeGrand, 2012-12-06 A solution to the protein folding problem has eluded researchers for more than 30 years The stakes are high Such a solution will make 40 000 more tertiary structures available for immediate study by translating the DNA sequence information in the sequence databases into three dimensional protein structures This translation will be indispensable for the analysis of results from the Human Genome Project de novo protein design and many other areas of biotechnological research Finally an in depth study of the rules of protein folding should provide vital clues to the protein folding process The search for these rules is therefore an important objective for theoretical molecular biology Both experimental and theoretical approaches have been used in the search for a solution with many promising results but no general solution In recent years there has been an exponential increase in the power of computers This has triggered an incredible outburst of theoretical approaches to solving the protein folding problem ranging from molecular dynamics based studies of proteins in solution to the actual prediction of protein structures from first principles This volume attempts to present a concise overview of these advances Adrian Roitberg and Ron Elber describe the locally enhanced sampling simulated annealing conformational search algorithm Chapter 1 which is potentially useful for the rapid conformational search of larger molecular systems

Protein Structure Prediction Mohammed Zaki, Chris Bystroff, 2007-09-12 This book covers elements of both the data driven comparative modeling approach to structure prediction and also recent attempts to simulate folding using explicit or simplified models Despite the unsolved mystery of how a protein folds advances are being made in predicting the interactions of proteins with other molecules Also rapidly advancing are the methods for solving the inverse folding problem the problem of finding a sequence to fit a structure This book focuses on the various computational methods for prediction their successes and their limitations from the perspective of their most well known practitioners

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