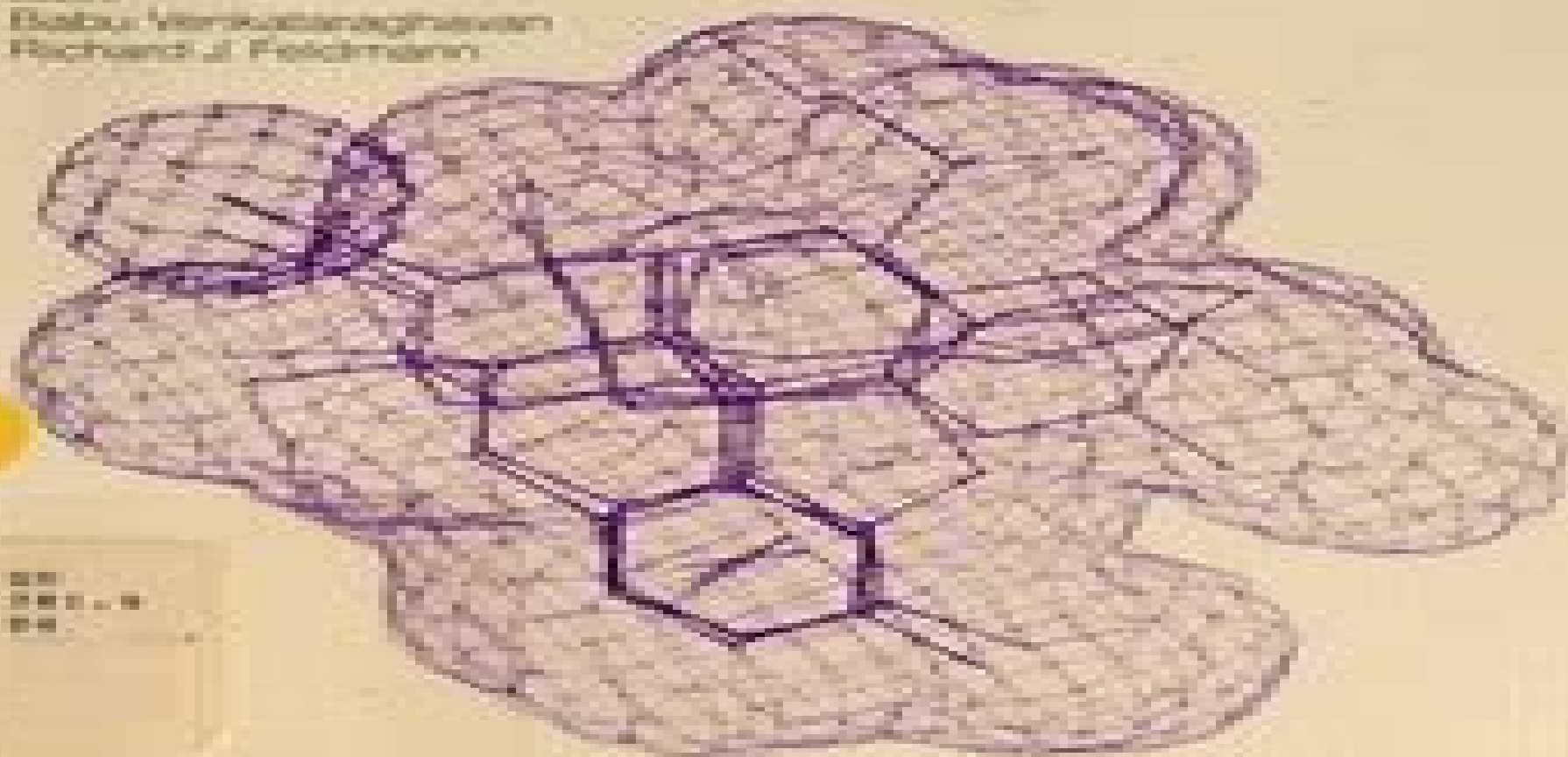


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MACROMOLECULAR STRUCTURE AND SPECIFICITY: COMPUTER-ASSISTED MODELING AND APPLICATIONS

Edited
Babu Venukumaraghevan
Richard J. Feldmann



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Macromolecular Structure and Specificity B. Venkataraghavan, R. J. Feldmann, 1985 **Macromolecular Structure and Specificity** Babu Venkataraghavan, Richard J. Feldmann, 1985 **Physical and Chemical Mechanisms in Molecular Radiation Biology** William A. Glass, Matesh N. Varma, 2012-12-06 The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization of the nuclear energy option In addition this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program To achieve the above stated objective the U S Department of Energy DOE and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago A critical component of this program is the Radiological and Chemical Physics Program RCPP When the RCPP was established there was very little basic knowledge in the fields of physics chemistry and biology that could be directly applied to understanding the effects of radiation on biological systems Progress of the RCPP program in its first 15 years was documented in the proceedings of a conference held at Airlie Virginia in 1972 At this conference it was clear that considerable progress had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects During this period of time most physical knowledge was obtained for the gas phase because the technology and instrumentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials *Molecular Biology of Neuroreceptors and Ion Channels* Alfred Maelicke, 2013-06-29 This workshop was the second of this series held on the island of Santorini in the Cycladic Sea The first one Mechanism of Action of the Nicotinic Acetylcholine Receptor NATO ASI Series H vol 10 took place in May 1986 and focused on what was at the time the best studied of all neuroreceptors This second one held only two years later demonstrates the immense progress achieved since then in the field of neuroreceptors and ion channels Molecular cloning techniques have now made available the primary structures of a whole array of ion channel proteins and this in turn has shed light on some general principles of the structure function relationships of these central elements of intercellular communication The purpose of this workshop was to explore the common elements in gene and protein structure of already cloned ion channel proteins and to assess the status of other cloning projects in progress It explicitly focused on very recently published and unpublished results All participants kept to these goals thereby demonstrating the very value of such workshops for the progress of science **Cumulated Index Medicus**, 1985 **Use of Computer Models in Biomedical Research**, 1986 **Handbook of Chemical and Biological Sensors** R.F Taylor, Jerome S. Schultz, 1996-01-01 The Handbook of Chemical and Biological Sensors focuses on the development of sensors to recognize substances rather than physical quantities This fully inclusive book examines devices that use a biological sensing element to detect and measure chemical and biological species as well as those that use a synthetic element to achieve a similar result A

first port of call for anyone with a specific interest question or problem relating to this area this comprehensive source of reference serves as a guide for practicing scientists and as a text for many graduate courses It presents relevant physics to chemists chemistry to materials scientists materials science to electronic engineers and fabrication technology to all of the above In addition the handbook is useful both to newcomers and to experienced researchers who wish to broaden their knowledge of the constituent disciplines of this wide ranging field *Steric Aspects Of Biomolecular Interactions* G.Naray-Naray-Szabo,2018-01-18 The present volume deals with the application of the following techniques computational chemistry X ray diffraction and two dimensional nuclear magnetic resonance The book will discuss how these methods can be used to study steric aspects of biomolecular interactions **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1988 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **The Melanotropic Peptides** M.E. Hadley,2018-01-18 The three volumes on The Melanotropic Peptides are the outcome of a conference of the same name that was held in Tucson Arizona from October 11 12 1986 Volume III discusses the known mechanisms of action of the two melanotropic peptides and concludes with a discussion of the possible biomedical applications of the melanotropins Current Research in Protein Chemistry Villafranc,2012-12-02 Current Research in Protein Chemistry Techniques Structure and Function focuses on the techniques and methods used for determining the structure and function of proteins Topics covered range from protein folding and stability to catalysis by chimeric proteins amino acid and peptide analysis applications of mass spectrometry to peptide and protein analysis and protein sequencing This book is divided into six sections encompassing 55 chapters The first chapter describes a novel method for protein hydrolysis by means of microwave irradiation that uses Teflon Pyrex tubes This is followed by a discussion of the application of high performance capillary electrophoresis to the analysis of amino acids The sections that follow focus on mass spectrometric methods protein sequencing and capillary electrophoresis as well as protein stability chimeric proteins and enzyme modifications and protein structure prediction The crystal structure of human interleukin 1alpha the acid denatured states of proteins solubility of recombinant proteins expressed in Escherichia coli and catalysis by chimeric proteins are considered The reader is also introduced to peptide mapping and internal sequencing of proteins from acrylamide gels new approaches to covalent sequence analysis alkaline denaturation of hemoglobin and measurements of disulfide bond stabilities in protein folding intermediates Students and researchers interested in protein chemistry will find this book extremely helpful *DHHS Publication* ,1980 **Approaching the 21st Century** United States. National Advisory Mental Health Council,1988 **Literature Search** National Library of Medicine (U.S.),1986 Annals of the New York Academy of Sciences Thomas Lincoln Casey,Gilbert Van Ingen,Charles Lane Poor,Edmund Otis Hovey,Ralph Winfred Tower,2003 Molecular Mechanisms for Sensory Signals Edward M. Kosower,2017-03-14 Pursuing the questions of how we learn and how memory is made Edward Kosower introduces a novel and rich approach to connecting molecular properties with the

biological properties that enable us to write and read to create culture and ethics and to think Here he examines what happens within a single cell in reaction to external stimuli and shows the parallels between single cell and multicellular responses To address the problem of learning Kosower explains the molecular mechanisms of responses to input from taste olfactory and visual receptors He then shows how these and other processes serve as the basis for memory This study covers such signals for the molecular process of learning as pheromones the molecular signals mediating behavior light activates the G protein receptor rhodopsin and acetylcholine opens the nicotinic acetylcholine receptor Kosower's discussion of the structure and function of these complex molecules has direct implications for such areas as molecular neurobiology bioorganic chemistry and drug design in elucidating approaches to the structure of drug targets Originally published in 1991 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 *The Organic Chemistry of Drug Design and Drug Action* Richard B.

Silverman,2012-12-02 This is a new approach to the teaching of medicinal chemistry The knowledge of the physical organic chemical basis of drug design and drug action allows the reader to extrapolate to the many related classes of drugs described in standard medicinal chemistry texts Students gain a solid foundation to base future research endeavors upon drugs not yet developed are thus covered n Emphasizes the use of the principles of physical organic chemistry as a basis for drug designn Discusses organic reaction mechanisms of clinically important drugs with mechanistic schemesn Uses figures and literature references extensively throughoutn This text is not merely a compilation of drugs and uses but features selected drugs as examples of the organic chemical basis for any and all drug design applications **Chemical Carcinogenesis** Francisco

Feo,Paolo Pani,2013-11-11 About two centuries after the communication by Sir Percival Pott that the chimney sweeper disease was a cancer and its suggestion that active compounds of soot were the causative agents and about one century after the description of urinary bladder cancer in dye workers an enormous number of substances have been synthesized and have probably come into contact with man Research in cancer prevention is of primary importance and may receive continuous support from new discoveries on cancer etiology and pathogenesis If one accepts the multistage model of chemical carcinogenesis one has also to accept that many events occur between the contact of carcinogenic compounds and their specific targets and the development of a clinically recognizable neoplasm Thus animal studies become essential to elucidate the different steps by which chemical carcinogens induce neoplasia The analysis of these steps and the comparative evaluation of experimental models is essential to an understanding of pathogenesis **Chemical**

Evolution--self-organization of the Macromolecules of Life Julián Chela Flores,1995 The contents record evidence of

early life from the oldest known fossil in the geological record as well as the prior events of chemical evolution the question of the chirality of protein amino acids is discussed The book is organized in five sections corresponding to chemical geological biochemical biophysical aspects of self organization concluding with a section on chirality It provides an excellent introduction to this ever growing interdisciplinary area of research in chemistry physics the life sciences This volume is a Festschrift for the late Professor Cyril Ponnamperna in whose honor the Second Trieste Conference was held contains the papers presented at the Conference

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