

Molecular Basis of Specificity in Nucleic Acid-Drug Interactions

Edited by B. Pullman and J. Jortner

**The Jerusalem Symposia on Quantum Chemistry and Biochemistry
Volume 23**



Kluwer Academic Publishers

Molecular Basis Of Specificity In Nucleic Acid Drug Interactions Jerusalem Symposia

A. Pullman, Joshua Jortner



Molecular Basis Of Specificity In Nucleic Acid Drug Interactions Jerusalem Symposia:

Molecular Basis of Specificity in Nucleic Acid-Drug Interactions A. Pullman, Joshua Jortner, 2012-12-06 One of the central problems in the study of the mechanism of DNA ligand interactions is the existence and nature of sequence specificity with respect to the base pairs of DNA The presence of such a specificity could be of particular significance because it might possibly mean the involvement of specific genes in the effectiveness of the different drugs The elucidation of the factors responsible for the specificity could then be important for the development of compounds susceptible to contribute to the control of gene expression and also to the development of rationally conceived improved new generations of effective and specific chemotherapeutic agents Important recent achievements experimental and theoretical in the analysis of such sequence specificities open prospects for possible rapid progress in this field The 23rd Jerusalem symposium was devoted to the exploration of these recent achievements in relation to many types of ligand with special emphasis on antitumor drugs All major types of interaction intercalation groove binding covalent linking coordination have been considered So was also the effect of the interaction on the structure and properties of the nucleic acids and the relationship between the interaction and biological or pharmacological activities We feel that this Volume presents a relatively complete up to date account of the state of the art in this important field of research

Host-Guest Molecular Interactions Derek J. Chadwick, Kate Widdows, 2008-04-30 Composed of contributions from experts in the chemical and biological sciences it explores host guest molecular interactions leading to the formation of molecular assemblies containing two or more species Exciting applications are emerging in this field and it is expected that improved understanding of the interactions in synthetic host molecule complexes will lead to a better understanding of the more complex biological systems Topics include biomimetic chemistry preorganization self assembly template directed synthesis antibiotic binding to peptides and DNA interactions between proteins and other molecules

DNA-Protein Interactions G. Geoff Kneale, 2008-02-02 The study of protein nucleic acid interactions is currently one of the most rapidly growing areas of molecular biology DNA binding proteins are at the very heart of the regulation and control of gene expression replication and recombination Enzymes that recognize and either modify or cleave specific DNA sequences are equally important to the cell Some of the techniques reported in this volume can be used to identify previously unknown DNA binding proteins from crude cell extracts Virtually all are capable of giving direct information on the molecular basis of the interaction the location of the DNA binding site the strength and specificity of binding the identities of individual groups on specific bases involved in binding the specific amino acid residues of the protein that interact with the DNA or the effects of protein binding on gross conformation and local structure of DNA The recognition of DNA sequences by proteins is a complex phenomenon involving specific hydrogen bonding contacts to the DNA bases direct readout and or interactions with the sugar phosphate backbone indirect readout The latter interactions can also be highly specific because of sequence dependent conformational changes in the DNA In addition intercalation of

planar aromatic amino acid side chains between the DNA bases can occur most notably with single stranded DNA binding proteins Furthermore when bound many DNA binding proteins induce drastic structural changes in the DNA as an integral part of their function

Mode Selective Chemistry Joshua Jortner, R.D. Levine, A. Pullman, 2012-12-06 The Twenty Fourth Jerusalem Symposium reflected the high standards of these distinguished scientific meetings which convene once a year at the Israel Academy of Sciences and Humanities in Jerusalem to discuss a specific topic in the broad area of quantum chemistry and biochemistry The topic at this year's Jerusalem Symposium was mode selective chemistry which constitutes a truly interdisciplinary subject of central interest in the areas of chemical physics photochemistry and photobiology The main theme of the Symposium was built around the exploration of the possibility and conditions for non statistical reaction dynamics in molecules van der Waals molecules clusters and condensed phases The main issues addressed photoselective and coherent excitation modes bottlenecks for intramolecular vibrational energy redistribution the consequences of the internal structure of many atom systems and of rotational vibrational level structure for intramolecular dynamics bond selective photodissociation ultrafast chemical clocks for energy disposal coherent control of photochemical reactions and nonstatistical unimolecular reaction dynamics The interdisciplinary nature of this research area was deliberated by intensive and extensive interactions between theory and experiment This volume provides a record of the invited lectures at the Symposium

Energy Research Abstracts, 1980

Handbook of Chemical Biology of Nucleic Acids Naoki Sugimoto, 2023-07-29 This handbook is the first to comprehensively cover nucleic acids from fundamentals to recent advances and applications It is divided into 10 sections where authors present not only basic knowledge but also recent research Each section consists of extensive review chapters covering the chemistry biology and biophysics of nucleic acids as well as their applications in molecular medicine biotechnology and nanotechnology All sections within this book are Physical Chemistry of Nucleic Acids Section Editor Prof Roland Winter Structural Chemistry of Nucleic Acids Section Editor Prof Janez Plavec Organic Chemistry of Nucleic Acids Section Editor Prof Piet Herdewijn Ligand Chemistry of Nucleic Acids Section Editor Prof Marie Paule Teulade Fichou Nucleic Acids and Gene Expression Section Editor Prof Cynthia Burrows Analytical Methods and Applications of Nucleic Acids Section Editor Prof Chaoyong Yang Nanotechnology and Nanomaterial Biology of Nucleic Acids Section Editor Prof Zhen Xi Nucleic Acids Therapeutics Section Editor Prof Katherine Seley Radtke Biotechnology and Synthetic Biology of Nucleic Acids Section Editor Prof Eriks Rozners Functional Nucleic Acids Section Editor Prof Keith R Fox The handbook is edited by outstanding leaders with contributions written by international renowned experts It is a valuable resource not only for researchers but also graduate students working in areas related to nucleic acids who would like to learn more about their important role and potential applications

Circular Dichroism Nina Berova, Koji Nakanishi, Robert W. Woody, 2000-05-03 Multidisciplinary coverage of circular dichroism's principles applications and latest advances The four years since the publication of the first edition of Circular Dichroism Principles and Applications have seen

a rapid expansion of the field including new applications improved understanding of principles and a growing interest in circular dichroism CD among researchers from a wide variety of disciplines The Second Edition keeps pace with this phenomenal growth with up to date contributions from dozens of the world s leading researchers and practitioners in chirality chemistry biochemistry and analytical chemistry as well as vibrational and luminescence spectroscopy With nine entirely new chapters and substantial updates of existing material Circular Dichroism Second Edition provides important insight into the immense potential of CD and bridges the gap between theory and practice The book begins with coverage of historical developments and moves quickly to fascinating reports on recent advances and emerging new fields in CD New and updated coverage includes VOA theory Solid state CD applications Fast time resolved CD measurements A model illustrating how polymers amplify chirality Induced CD of polymers CD of nucleic acids nonclassical conformations and modified oligonucleotides DNA drug and DNA protein interactions Applications of CD to important pharmaceutical compounds Featuring an increased emphasis on biological molecules and extensive applications to organic stereochemistry and biopolymers Circular Dichroism Principles and Applications Second Edition will prove a valuable and frequently consulted reference for organic chemists biochemists and medicinal and pharmaceutical chemists

Membrane Proteins: Structures, Interactions and Models A. Pullman, Joshua Jortner, 2012-12-06 The 25th Jerusalem Symposium represents a most significant highlight in the development and history of these meetings Living within the decimal system we have celebrated with much pleasure the lath and the 20th Jerusalem Symposia With this one we experience a feeling of particular satisfaction because 25 years is different from is more than two decades and a half It is a quarter of a century It seems thus as if we have changed the dimension of our endeavour In no way do we loose the sense of modesty with respect to the significance of these meetings For the organizers however they do represent a continuity of efforts which we feel happy to have been able to carry out At this occasion it seems useful to say a few words about the origin of the Jerusalem Symposia and to recall the name of a colleague who played an essential role in their creation and has been a most efficient and devoted co organizer of the seven first of them This was Professor Ernst Bergmann one of the most distinguished founders of Israeli Science and a world famous physico organic chemist

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

Reaction Dynamics in Clusters and Condensed Phases Joshua

Jortner, R.D. Levine, A. Pullman, 2012-12-06 The Twenty Sixth Jerusalem Symposium reflected the high standards of these distinguished scientific meetings which convene once a year at the Israel Academy of Sciences and Humanities in Jerusalem to discuss a specific topic in the broad area of quantum chemistry and biochemistry The topic at this year's Jerusalem Symposium was reaction dynamics in clusters and condensed phases which constitutes a truly interdisciplinary subject of central interest in the areas of chemical dynamics kinetics photochemistry and condensed matter chemical physics The main theme of the Symposium was built around the exploration of the interrelationship between the dynamics in large finite clusters and in infinite bulk systems The main issues addressed microscopic and macroscopic solvation phenomena cluster and bulk spectroscopy photodissociation and vibrational predissociation cage effects interphase dynamics reaction dynamics and energy transfer in clusters dense fluids liquids solids and biophysical systems The interdisciplinary nature of this research area was deliberated by intensive and extensive interactions between modern theory and advanced experimental methods This volume provides a record of the invited lectures at the Symposium **International Books in Print**, 1997

Index of Conference Proceedings, 1991

Excited States and Free Radicals in Biology and Medicine R. V.

Bensasson, E. J. Land, T. G. Truscott, 1993 Excited states and free radicals are involved in the normal physiology of living systems in pathological processes including lipid peroxidation inflammation Parkinson's disease cancer and aging in the mechanisms of drug action and in the photochemotherapies such as the PUVA therapy for skin diseases and PDT for cancer This text introduces the reader to this rapidly expanding field one that lies at the borderlines of physics chemistry biology pharmacology and medicine The authors explore in particular how time resolved spectroscopic methods have found solutions at the molecular level to biological and medical problems Topics include the nature of excited states and free radicals and the techniques for their study activated oxygen species DNA proteins carotenoids and photosynthetic reaction centers photodermatology and melanogenesis and aspects of cancer related to radiochemo and photodynamic therapy Researchers and graduate students in photochemistry photobiology photomedicine radiation chemistry and biology and cancer therapies will find this book to be of very significant interest Directory of Published Proceedings, 1992 **Government Reports**

Announcements & Index, 1990 *Biological Agriculture & Horticulture*, 1990 **The Cumulative Book Index**, 1991 A

world list of books in the English language *Whitaker's Books in Print*, 1998 *Nuclear Magnetic Resonance* G A

Webb, 2007-10-31 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and

Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis *Molecular Aspects of Anticancer Drug DNA Interaction* Neidle,1993-08-16 This cutting edge book surveys the current knowledge on the mode of action of the major classes of DNA interactive antitumor agents providing information that could be crucial for the discovery of new therapeutic substances It is an important reference for molecular biologists cancer researchers biochemists biophysicists and pharmacologists

Molecular Basis Of Specificity In Nucleic Acid Drug Interactions Jerusalem Symposia Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Molecular Basis Of Specificity In Nucleic Acid Drug Interactions Jerusalem Symposia**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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understanding of the occurrence and movement of water under the Earth's surface is constantly advancing, with new models, improved drilling equipment ... Groundwater Hydrology - David Keith Todd, Larry W. Mays Special focus is placed on modern groundwater modeling methods, including a detailed description of MODFLOW. Intended Courses: Departments of Civil and ... Solution manual Groundwater Hydrology (3rd Ed., David ... Jan 30, 2018 — Solution manual Groundwater Hydrology (3rd Ed., David Keith Todd & Larry Mays) ... Solution manual Practical Problems in Groundwater Hydrology ... Groundwater Hydrology by D.K.Todd Groundwater Hydrology by D.K.Todd. Groundwater Hydrology by D.K.Todd. Groundwater ... Hydrology Solutions for Volume : I Classroom Practice Questions Missing ... Ground-water studies: an international guide for research ... Ground-water studies: an international guide for research and practice. Person as author : Brown, R.H.. Parent : Studies and reports in hydrology. Groundwater Hydrology: Third Edition | PDF | Aquifer ... Groundwater. Hydrology. Third Edition. David Keith. Todd. University. o. California. Berkeley. and. Todd. Engineers. Larry. W. Mays ... groundwater. knowledge. Groundwater studies: an international guide for ... Groundwater studies: an international guide for hydrogeological investigations. Person as author : Kovalevsky, Vlademir S. Person as author : Kruseman, ...