

NMR of Macromolecules

A PRACTICAL APPROACH

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Nmr Of Macromolecules A Practical Approach The Practical Approach Series

Oleg Jardetzky, Jean-François Lefèvre



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NMR of Macromolecules Gordon Carl Kenmure Roberts, 2023 Following the enormous increase in the use of nuclear magnetic resonance to study the conformations and interactions of biological macromolecules this book provides detailed guidance for the newcomer to this area It explains how to choose the right experiment to obtain the desired information how to carry out the experiment and how to analyse the resulting spectra For those familiar with chemical applications of NMR but not to biological macromolecules the book describes the special requirements of NMR studies of these large molecules A truly practical book which no one using these techniques will want to be without Encyclopedia of Spectroscopy and Spectrometry, 2010-04-09 The Second Edition of the Encyclopedia of Spectroscopy and Spectrometry pulls key information into a single source for quick access to answers and or in depth examination of topics SPEC 2 covers theory methods and applications for researchers students and professionals combining proven techniques and new insights for comprehensive coverage of the field The content is available in print and online via ScienceDirect the latter of which offers optimal flexibility accessibility and usability through anytime anywhere access for multiple users and superior search functionality No other work gives analytical and physical bio chemists such unprecedented access to the literature With 30% new content SPEC 2 maintains the authoritative balanced coverage of the original work while also breaking new ground in spectroscopic research Incorporates more than 150 color figures 5 000 references and 300 articles 30% of which are new for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Features a new co editor David Koppenaal of Pacific Northwest National Laboratory Washington USA whose work in atomic mass spectrometry has been recognized internationally **Nuclear Magnetic Resonance of Biological Macromolecules, Part A**, 2001-07-12 This volume and its companion Volume 339 supplement Volumes 176 177 239 and 261 Chapters are written with a hands on perspective That is practical applications with critical evaluations of methodologies and experimental considerations needed to design execute and interpret NMR experiments pertinent to biological molecules **Protein-Protein Interactions** Haian Fu, 2008-02-03 As the mysteries stored in our DNA have been more completely revealed scientists have begun to face the extraordinary challenge of unraveling the intricate network of protein protein interactions established by that DNA framework It is increasingly clear that proteins continuously interact with one another in a highly regulated fashion to determine cell fate such as proliferation differentiation or death These protein protein interactions enable and exert stringent control over DNA replication RNA transcription protein translation macromolecular assembly and degradation and signal transduction essentially all cellular functions involve protein protein interactions Thus protein protein interactions are fundamental for normal physiology in all organisms Alteration of critical protein protein interactions is thought to be involved in the development of many diseases such as neurodegenerative disorders cancers and infectious diseases Therefore examination of when and how protein protein

interactions occur and how they are controlled is essential for understanding diverse biological processes as well as for elucidating the molecular basis of diseases and identifying potential targets for therapeutic interventions Over the years many innovative biochemical biophysical genetic and computational approaches have been developed to detect and analyze protein-protein interactions This multitude of techniques is mandated by the diversity of physical and chemical properties of proteins and the sensitivity of protein-protein interactions to cellular conditions

Biotechnology Annual Review M.R. El-Gewely, 1995-11-14 The *Biotechnology Annual Review* covers the various developments in biotechnology in the form of comprehensive illustrated and well referenced reviews With the expansion of the field of biotechnology coupled with the vast increase in the number of new journals reporting recent results in this field the need for a publication that is continuously providing reviews is urgent Hence each volume of the *Biotechnology Annual Review* will have a number of reviews covering different aspects of biotechnology Reviewed topics will include biotechnology applications in medicine agriculture marine biology industry bioremediation and the environment Fundamental problems dealing with enhancing the technical knowledge encountering biotechnology utilization regardless of the field of application will be particularly emphasized This series will help both students and teachers researchers as well as administrators to remain knowledgeable on all relevant issues in biotechnology

Proposals for contributions and or suggestions for topics for future volumes in this series should be sent to the Editor professor M R El-Gewely Department of Biotechnology University of Tromsø IMB MH Bygget N 9037 Tromsø Norway Tel 47 77 644000 Fax 47 77 645350

NMR of Macromolecules ... G. C. K. (Ed.). ROBERTS, 1993 List of contributors

Nomenclature and abbreviations Introduction Sample preparation Instrumentation and pulse sequences Resonance assignment strategies for small proteins Stable isotope labelling and resonance assignments in larger proteins Effects of chemical exchange on NMR spectra NMR studies of protein-ligand interactions NMR of nucleic acids from spectrum to structure H NMR studies of oligosaccharides structure determination from NMR data I analysis of NMR data Structure determination from NMR data II computational approaches Appendix Index

A Practical Guide to Geometric Regulation for Distributed Parameter Systems Eugenio Aulisa, David Gilliam, 2015-06-18 A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite dimensional systems The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems The first part of the book is devoted to regulation of linear systems beginning with the mathematical setup general theory and solution strategy for regulation problems with bounded input and output operators The book then considers the more interesting case of unbounded control and sensing Mathematically this case is more complicated and general theorems in this area have become available only recently The authors also provide a collection of interesting linear regulation examples from physics and engineering The second part focuses on regulation for nonlinear systems It begins with a discussion of

theoretical results characterizing solvability of nonlinear regulator problems with bounded input and output operators The book progresses to problems for which the geometric theory based on center manifolds does not directly apply The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering

Microtubules, in vitro John J. Correia, Leslie Wilson, 2010-07-03 There continues to be intense interest in the microtubule cytoskeleton the assembly structure and regulation of microtubules and the numerous motors and accessory proteins that control cell cycle dynamics organization and transport The field continues to grow and explore new aspects of these issues driven immensely by developments in optical imaging and tracking techniques This volume complemented by the forthcoming companion volume by Cassimeris and Tran brings together current research and protocols in the field of microtubules in vitro and will serve as a valuable tool for cell biologists biophysicists and pharmacologists who study the microtubule cytoskeleton as well as for researchers in the biomedical and biotechnology communities with interest in developing drugs that target microtubules MAPS and motors Chapters reflect both experimental procedures and new developments in the field of microtubule in vitro research Combines classical approaches and modern technologies Presents easy to use protocols and thorough background information compiled by leaders in the field Biomolecular and Bioanalytical Techniques Vasudevan Ramesh, 2019-06-10 An essential guide to biomolecular and bioanalytical techniques and their applications Biomolecular and Bioanalytical Techniques offers an introduction to and a basic understanding of a wide range of biophysical techniques The text takes an interdisciplinary approach with contributions from a panel of distinguished experts With a focus on research the text comprehensively covers a broad selection of topics drawn from contemporary research in the fields of chemistry and biology Each of the internationally reputed authors has contributed a single chapter on a specific technique The chapters cover the specific technique s background theory principles technique methodology protocol and applications The text explores the use of a variety of analytical tools to characterise biological samples The contributors explain how to identify and quantify biochemically important molecules including small molecules as well as biological macromolecules such as enzymes antibodies proteins peptides and nucleic acids This book is filled with essential knowledge and explores the skills needed to carry out the research and development roles in academic and industrial laboratories A technique focused book that bridges the gap between an introductory text and a book on advanced research methods Provides the necessary background and skills needed to advance the research methods Features a structured approach within each chapter Demonstrates an interdisciplinary approach that serves to develop independent thinking Written for students in chemistry biological medical pharmaceutical forensic and biophysical sciences Biomolecular and Bioanalytical Techniques is an in depth review of the most current biomolecular and bioanalytical techniques in the field Dynamics and the Problem of Recognition in Biological Macromolecules Oleg Jardetzky, Jean-François Lefèvre, 2012-12-06

From within complex structures of organisms and cells down to the molecular level biological processes all involve movement. Muscular fibers slide on each other to activate the muscle as polymerases do along nucleic acids for replicating and transcribing the genetic material. Cells move and organize themselves into organs by recognizing each other through macromolecular surface specific interactions. These recognition processes involve the mutual adaptation of structures that rely on their flexibility. All sorts of conformational changes occur in proteins involved in through membrane signal transmission showing another aspect of the flexibility of these macromolecules. The movement and flexibility are inscribed in the polymeric nature of essential biological macromolecules such as proteins and nucleic acids. For instance the well defined structures formed by the long protein chain are held together by weak noncovalent interactions that design a complex potential well in which the protein floats permanently fluctuating between several micro or macroconformations in a wide range of frequencies and amplitudes. The inherent mobility of biomolecular edifices may be crucial to the adaptation of their structures to particular functions. Progress in methods for investigating macromolecular structures and dynamics make this hypothesis not only attractive but more and more testable.

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