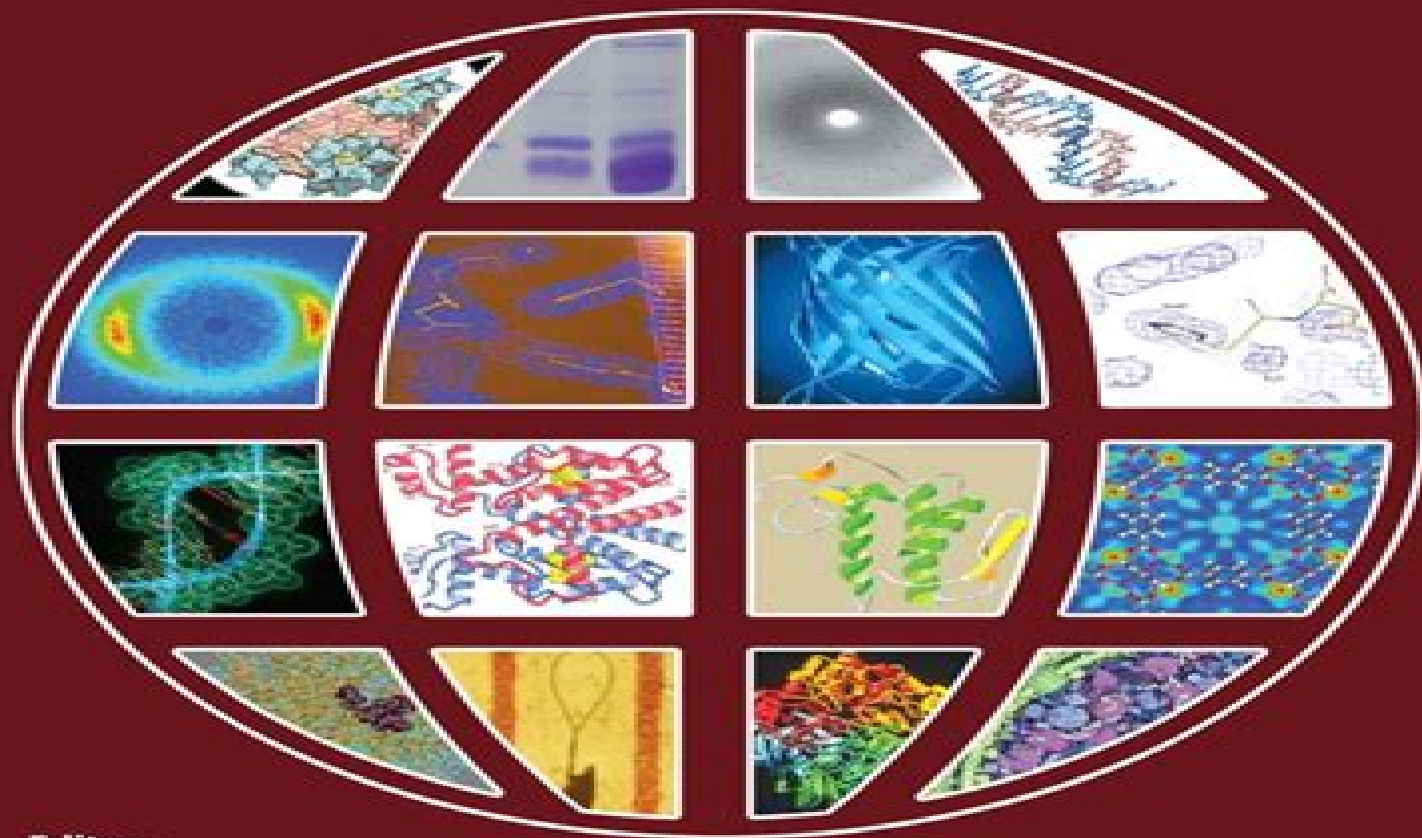


Dynamics of Biological Macromolecules by Neutron Scattering



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Biological Macromolecules And Assemblies Vol 1 Vol 1 Virus Structures

Dino Moras



Biological Macromolecules And Assemblies Vol 1 Vol 1 Virus Structures:

Animal Virus Structure M.V. Nermut,A.C. Steven,1987-10-01 Animal Virus Structure provides a comprehensive state of the art summary of the structure molecular composition and principal antigenic and biological properties of each currently recognized family of animal viruses Information deriving from electron microscopy computer image processing and X ray diffraction is integrated systematically with biochemical data into three dimensional molecular models of viral architecture A brief account of virus cell interaction and pathogenicity completes each chapter **Atlas of Virus Diagrams**

Hans-Wolfgang Ackermann,Laurent Berthiaume,2023-06-14 Authored by electron microscopists and leading members of the International Committee on Taxonomy of Viruses ICTV the Atlas of Virus Diagrams includes chapters on virus classification The diagrams selected for content and historic and aesthetic value illustrate vertebrate invertebrate and plant bacterial viruses taken from English French and German language virological literature The book presents this information in three sections Overviews including vertebrate and plant viruses Viruses with cubic and helical symmetry Viruses with binary symmetry tailed bacteriophages **Nucleic Acids and Molecular Biology** Fritz Eckstein,David M. J. Lilley,2012-12-06

Molecular biology has always been a discipline of rapid development Despite this we are presently experiencing a period of unprecedented proliferation of information in nucleic acid studies and molecular biology These areas are intimately interwoven so that each influences the other to their mutual benefit The rapid growth in information leads to ever increasing specialization so that it becomes increasingly difficult for a scientist to keep abreast of developments in all the various aspects of the field although an up to date knowledge of the field as a whole is highly desirable With this background in mind we present the series Nucleic Acids and Molecular Biology It comprises focused review articles by active researchers who report on the newest developments in their areas of particular interest **The Fullerenes** H. W. Kroto,D. R. M.

Walton,1993-09-09 In 1985 Buckminsterfullerene fullerene 60 C60 was discovered serendipitously during graphite laser vaporisation experiments designed to simulate the chemistry in a red giant carbon star The molecule was isolated for the first time in macroscopic amounts in 1990 a breakthrough which triggered an explosion of research into its chemical and physical properties The fullerenes hold great potential for material science applications such as semiconductors and microscopic engineering and as new compounds for pharmaceuticals polymers and the chemical industry In October 1992 a Discussion Meeting of the Royal Society entitled A Post Buckminsterfullerene View of the Chemistry Physics and Astrophysics of Carbon organised by H W Kroto A L Makay G Turner and D R M Walton was held to celebrate this exciting advance The scientists who played key roles in the discovery and who are currently uncovering fascinating problems and the implications of this elegant molecule presented the papers published in this book *Cambridge Scientific Biochemistry Abstracts* ,1991

Plant Viruses C.L. Mandahar,2018-01-18 This book deals with the structure and replication of plant viruses viroids satellites of plant viruses and spiroplasmas and neatly sums up the state of our knowledge about these aspects of these

pathogens Published information about single stranded positive sense RNA plant viruses is far greater than for any other group of plant pathogens The book caters to the needs of students as well as researchers and is illustrated with micrographs figures of postulated models and genetic maps Raman Spectra and the Conformations of Biological Macromolecules Thomas G. Spiro, 1987 The Bacteriophages Richard Calendar, 2012-12-06 It has been 10 years since Plenum included a series of reviews on bacteriophages in Comprehensive Virology Chapters in that series contained physical genetic maps but very little DNA sequence information Now the complete DNA sequence is known for some phages and the sequences for others will soon follow During the past 10 years two phages have come into common use as reagents A phage for cloning single copies of genes and M13 for cloning and DNA sequencing by the dideoxy termination method Also during that period the use of alternative sigma factors by RNA polymerase has become established for SPOL and T4 This seems to be a widely used mechanism in bacteria since it has been implicated in sporulation heat shock response and regulation of nitrogen metabolism The control of transcription by the binding of a phage CII protein to the 35 region of the promoter is a recent finding and it is not known how widespread this mechanism may be This rapid progress made me eager to solicit a new series of reviews These contributions are of two types Each of the first type deals with an issue that is exemplified by many kinds of phages chapters of this type should be useful in teaching advanced courses Chapters of the second type provide comprehensive pictures of individual phage families and should provide valuable information for use in planning experiments

Caught By Viruses Michael G Rossmann, 2021-11-10 The current book attempts to give a glimpse of the scientific life of Michael Rossmann The book begins with his very interesting and moving autobiography His enormous energy must have been evident already from early childhood when he and his mother had to emigrate from Nazi Germany to England via The Netherlands Starting school with a new language was a challenge that he managed well with the assistance of understanding teachers Crystallography soon became the tool to explore new worlds unknown to everybody With a skill for mathematics he realized that the transform of a molecular structure in the diffraction pattern could be used for analysis of both symmetry and structural relationships This method molecular replacement MR also the initials of his name became one of his great successes of his career The previous book by him in this series Selected Papers by Michael G Rossmann with Commentaries covers his main contributions in this area With an interest in symmetry viruses became obvious objects to study Rossmann attacked these monstrously large molecular assemblies with his unflinching energy and his appetite for real challenges The amazing variation of molecular arrangements with icosahedral symmetry is truly amazing This book includes a selection of reports of the structures of some giant viruses As always knowing the structure enhances the understanding of function greatly in the case of viruses the mechanism of infection is a key problem Rossmann has contributed many central insights in this area Thus this book is of interest both as an interesting personal story but also for research into viruses that repeatedly plague all living organisms on the planet right now in the form of the corona virus pandemic Crystallography in

Molecular Biology Dino Moras, 2013-04-17

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