



Structural Biology Of Viruses

Helen Mary Elizabeth Duyvesteyn



Structural Biology Of Viruses:

Structural Biology of Viruses Wah Chiu, Roger M. Burnett, Robert L. Garcea, 1997 Historically structural biology and virology have been separate disciplines with the field of virology developing around particular virus families However recent advances in the techniques of structural biology including high performance computing and graphics visualization X ray crystallography and electron microscopy coupled with continued progress in molecular biology and virology have caused a major convergence of interests Structural virology now provides some of the most outstanding examples of structure function relationships in biology Viruses encounter many common problems in their life cycles and so the solutions that they have evolved provide instructive contrasts between different biological strategies for survival These ideas are illustrated by each of the different chapters most of which cover a viral system that well illustrates a particular biological function The goal of this book is to unite the structural and biological aspects of virus function With this in mind each chapter has been written explicitly by experts to address a broad audience ranging from graduate students to researchers in structural biology virology molecular biology and biochemistry

Structural Biology for Virus Research Akio Adachi, Yasuyuki Miyazaki, Masako Nomaguchi, Mikako Fujita, Viruses are absolutely and strictly dependent on target host cells for their replication However they have their own unique strategies at each replication step from the entry into cells transcription translation assembly of viral genome proteins and up to the release of progeny virions from cells We virologists have to understand these complex biological interactions between viruses and host cells Importantly extensive studies based on bio structural technology have revealed in succession the detailed and bottom line mechanisms of viral replication processes otherwise impossible We now know the highly dynamic nature of viral genome proteins and are impressed by their ingeniously organized functionality in hostile host environments For characterization of viruses as a unique genetic entity and pathogenic agent it has been critical to investigate thoroughly the individual viral components and host factors involved in the virus replication cycle Because many viral and cellular factors essential for viral replication and pathogenicity have been newly discovered through the efforts of virologists the necessity of contribution to the progress of virology by the structural biology is now greatly increasing To fully understand precise mechanisms underlying the functional interaction of viral and host molecules needless to say it is crucially required to have their structural information We need to know molecular details of the nucleic acids proteins and interacting molecules The information indispensable for understanding certain biological phenomena may only be provided by high resolution three dimensional structures Of note a number of anti viral drugs have been generated based on the structural information The interacting interfaces between virus and host components which are important for viral replication can be potent targets for anti viral drugs Their structural characterization would lead to designing rigid anti viral drugs and or vaccines In this Research Topic we wish to summarize and review what the structural biology has accomplished so far to resolve the important virological issues We also wish to

describe the perspective of the structural biology for the future virology Finally the presentation of ongoing original works is greatly encouraged *Integrative Structural Biology of Viruses* Helen Mary Elizabeth Duyvesteyn, 2020 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 unfailing 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 Structural Virology Mavis Agbandje-McKenna, Robert McKenna, 2010-11-11 Over the last ten years much effort has been devoted to improving the biophysical techniques used in the study of viruses This has resulted in the visualization of these large macromolecular assemblages at atomic level thus providing the platform for functional interpretation and therapeutic design *Structural Virology* covers a wide range of topics and is split into three sections The first discusses the vast biophysical methodologies used in structural virology including sample production and purification confocal microscopy mass spectrometry negative stain and cryo electron microscopy X ray crystallography and nuclear magnetic resonance spectroscopy The second discusses the role of virus capsid protein structures in determining the functional roles required for receptor recognition cellular entry capsid assembly genome packaging and mechanisms of host immune system evasion The last section discusses therapeutic strategies based on virus protein structures including the design of antiviral drugs and the development of viral capsids as vehicles for foreign gene delivery Each topic covered will begin with a review of the current literature followed by a more detailed discussion of experimental procedures a step in the viral life cycle or strategies for therapeutic development With contributions from experts in the field of structural biology and virology this exceptional monograph will appeal to biomedical scientists involved in basic and or applied research on viruses It also provides up to date reference material for students

entering the field of structural virology as well as scientists already familiar with the area

Segmented Double-stranded RNA Viruses John T. Patton, 2008 The double stranded ds RNA viruses represent a diverse group of viruses that vary widely in host range humans animals plants fungi and bacteria genome segment number one to twelve and virion organization T number capsid layers or turrets Members of this fascinating group include the rotaviruses renowned globally as the commonest cause of gastroenteritis in young children and bluetongue virus an economically important pathogen of cattle and sheep In recent years remarkable progress has been made in determining at atomic and subnanometeric levels the structures of a number of key viral proteins and of the virion capsids of several dsRNA viruses highlighting the significant parallels in the structure and replicative processes of many of these viruses By providing unique insights into fundamental aspects of structure function relationships in virus particles virus particle assembly virus cell interactions and viral pathogenesis approaches for the development of novel antiviral strategies and or agents can be designed This timely book brings together all of the key recent research on this disparate group of viruses providing for the first time a single resource reviewing dsRNA viral structure and molecular biology Written by well respected and experienced virologists topics include the structures of orthoreoviruses rotavirus phytoreoviruses and bluetongue virus entry into the bacterial cell crystal structure of reovirus polymerase lambda3 assembly of the reovirus genome genomic RNA packaging and replication in the Cystoviridae and much more Segmented Double Stranded RNA Viruses is essential reading for all dsRNA virologists and all other virologists with an interest in molecular and structural biology

Virus Protein and Nucleoprotein Complexes J. Robin Harris, David Bhella, 2018-06-13 The Subcellular Biochemistry series has recently embarked upon an almost encyclopaedic coverage of topics relating to the structure and function of macromolecular complexes Volumes 82 83 and 87 The present multi author text covers numerous aspects of current research into molecular virology with emphasis upon viral protein and nucleoprotein structure and function Structural data from cryo electron microscopy and X ray crystallography is displayed throughout the book The 17 chapters in the book cover diverse interesting topics all currently under investigation contributed by authors who are active actively involved in present day research Whilst structural aspects predominate there is much consideration of the structure function relationship In addition the book correlates with and extends from Volume 68 of the series Structure and Physics of Viruses An Integrated Textbook This book is directed primarily at professionals that work in the broad field of Structural Biology and will be of particular interest to Structural Virologists The editors David Bhella and Robin Harris have much experience in virology and protein structure respectively Dr Bhella is Director of the Scottish Macromolecular Imaging Centre Professor Robin Harris is the long standing Series Editor of the Subcellular Biochemistry series He has edited and contributed to several books in the series

Structure and Physics of Viruses Mauricio G. Mateu, 2013-06-04 This book contemplates the structure dynamics and physics of virus particles From the moment they come into existence by self assembly from viral components produced in the infected cell through their

extracellular stage until they recognise and infect a new host cell and cease to exist by losing their physical integrity to start a new infectious cycle Bio physical techniques used to study the structure of virus particles and components and some applications of structure based studies of viruses are also contemplated This book is aimed first at M Sc students Ph D students and postdoctoral researchers with a university degree in biology chemistry physics or related scientific disciplines who share an interest or are actually working on viruses We have aimed also at providing an updated account of many important concepts techniques studies and applications in structural and physical virology for established scientists working on viruses irrespective of their physical chemical or biological background and their field of expertise We have not attempted to provide a collection of for experts only reviews focused mainly on the latest research in specific topics we have not generally assumed that the reader knows all of the jargon and all but the most recent and advanced results in each topic dealt with in this book In short we have attempted to write a book basic enough to be useful to M Sc and Ph D students as well as advanced and current enough to be useful to senior scientists with an interest in Structural and or Physical Virology

Complementary Strategies to Study Virus Structure and Function ,2019-09-13 Complementary Strategies to Study Virus Structure and Function Volume 104 the latest release in the Advances in Virus Research series highlights new advances in the field with this new volume presenting interesting chapters on X ray structures from crystals of viral proteins grown in cellula NMR and SAXS to study protein dynamics and natively disordered viral proteins Mass spectrometry to study virus particle assembly Atomic force microscopy to study virus particles Non enveloped viruses and interactions with antibodies Non enveloped viruses and their mechanism of entry into cells Structures of enveloped virions by electron cryo microscopy and cryo tomography and many other interesting topics Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Virus Research series Includes the latest information on virus structure and function **Principles of Virology** S. Jane Flint,2004 Completely revised and updated to reflect important advances in the field Principles of Virology Second Edition continues to fill the gap between simple introductory texts and very advanced reviews of major virus families introducing upper level undergraduates graduate students and medical students to all aspects of virology The second edition retains all of the defining and much praised features of the first edition focusing on concepts and principles and presenting a comprehensive treatment from molecular biology to pathogenesis and infection control Written in an engagingly readable style and generously illustrated with over 400 full color illustrations this approachable volume offers detailed examples that illustrate common principles specific strategies adopted by different viruses to ensure their reproduction and the current state of virology research The book is divided into chapters that focus on specific topics rather than individual viruses and allows the student to visualize common themes that cut across virus families emphasizing the shared features of different viruses Drawing on the extensive teaching experience of each of its distinguished authors Principles of Virology illustrates why and how animal viruses are studied and

demonstrates using well studied systems how the knowledge gained from such model viruses can be used to study viral systems about which our knowledge is still quite limited A thorough introduction to principles of viral pathogenesis a broad view of viral evolution a discussion of how viruses were discovered and how the discipline of virology came to be are also provided A variety of special boxes highlight key experiments background material caveats and much more The text focuses on concepts and principles and covers not only aspects of molecular biology but also pathogenesis evolution emergence and control and will also be a valuable resource for practicing physicians and scientists New in the Second Edition Completely revised pathogenesis chapters Pathogenicity Snapshots an appendix highlighting teaching points for major viral diseases Expanded appendix on viral life cycles New chapter on viral genomes and coding strategies Detailed glossary Expanded references after each chapter new textboxes

Advances in HIV-1 Assembly and Release Eric O. Freed, 2013-07-12 Over the past decade enormous progress has been made in understanding the late events in the HIV replication cycle This has been made possible by major advances in cell biology virology and structural biology The field continues to move forward rapidly with important new discoveries being reported on a regular basis The impact of this progress across a broad spectrum of biomedical research has been substantial The increase in basic knowledge in the areas of HIV assembly release and maturation has been accompanied by new possibilities for therapeutic intervention The work includes topics relating to basic molecular biology cell biology and structural biology of HIV assembly coupled with more applied ideas of how this basic information can inform the field of antiretroviral research The book covers all major topics pertaining to the late stages of HIV replication with leaders in each area recruited to contribute chapters in their areas of expertise The topics will be sufficiently focused to allow authors the opportunity to cover the latest developments in detail

Biological

Macromolecules and Assemblies: Virus structures Frances A. Journak, Alexander McPherson, 1984

The Molecular and Structural Biology of Hair Kurt S. Stenn, A. G. Messenger, Howard P. Baden, 1991 These 32 papers and 28 poster papers offer scientific and clinical information on where research on hair currently stands They discuss future directions which might help unravel the biological phenomena and mechanisms of the hair follicle

Structure, Dynamics and Function of Biological Macromolecules and Assemblies Joseph D. Puglisi, 2005 Proceedings of the International School of Structural Biology and Magnetic Resonance held at Erice Italy in 2003

Encyclopedia of Virology Brian W. J. Mahy, M. H. V. Van Regenmortel, 2008 Covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000 Includes information on avian flu SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism

Viral Membrane Proteins: Structure, Function, and Drug Design Wolfgang B. Fischer, 2007-08-02 In Viral Membrane Proteins Structure Function and Drug Design Wolfgang Fischer summarizes the current structural and functional knowledge of membrane proteins encoded by viruses In addition contributors to the book address questions about

proteins as potential drug targets The range of information covered includes signal proteins ion channels and fusion proteins This book has a place in the libraries of researchers and scientists in a wide array of fields including protein chemistry molecular biophysics pharmaceutical science and research bioanotechnology molecular biology and biochemistry

Science, 2009 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting *Structural Studies of Adenovirus and DNA-dependent Protein Kinase by Cryo-electron Microscopy* Charles Yen Chiu, 1999 Physical Virology Mauricio Comas-Garcia, Sergio Rosales-Mendoza, 2023-09-29 This book highlights key findings generated during the past years from the main disciplines that constitute Physical Virology from theoretical physics and simulations to material sciences and vaccines development to structural biology Each chapter is written by world class scientists from these areas and is a comprehensive review of where this field stands as well as the future of Physical Virology The diversity in the formal training of these scientists results in solving common problems using very distinct approaches which can produce surprising findings The multi and interdisciplinary nature of this field has created a remarkable community that aims at understanding how viruses work and how they can be used in material sciences chemistry and biomedicine Furthermore the development of Physical Virology has resulted in technological advances that have shaped other fields for example it would be impossible to think about the development of Cryo EM to solve the structure of complex viruses with atomic resolution without the contribution of scientists that created the field of Physical Virology In the past decade there has been a great success in the generation of viral systems that can encapsulate drugs non viral genetic material or nanoparticles as well as in the chemical and genetical modification of virions Without any doubt in the immediate future some of these technologies will jump from the bench to the market creating a revolution in translational and biomedical sciences The book provides key perspectives for the field derived from expert s opinions

Viral Molecular Machines Michael G. Rossmann, Venigalla B. Rao, 2012-02-02 This book will contain a series of solicited chapters that concern with the molecular machines required by viruses to perform various essential functions of virus life cycle The first three chapters Introduction Molecular Machines and Virus Architecture introduce the reader to the best known molecular machines and to the structure of viruses The remainder of the book will examine in detail various stages of the viral life cycle Beginning with the viral entry into a host cell the book takes the reader through replication of the genome synthesis and assembly of viral structural components genome packaging and maturation into an infectious virion Each chapter will describe the components of the respective machine in molecular or atomic detail genetic and biochemical analyses and mechanism Topics are carefully selected so that the reader is exposed to systems where there is a substantial infusion of new knowledge in recent years which greatly elevated the fundamental mechanistic understanding of the respective molecular machine The authors will be encouraged to simplify the detailed knowledge to basic concepts include provocative new ideas as well as design colorful graphics thus making the cutting edge information accessible to broad

audience

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