



Positive Strand Rna Viruses

Alan Cann



Positive Strand Rna Viruses:

Positive-Strand RNA Viruses Margo A. Brinton, Charles H. Calisher, Roland Rueckert, 2012-12-06 Positive strand RNA viruses include the majority of the plant viruses a number of insect viruses and animal viruses such as coronaviruses togaviruses flaviviruses poliovirus hepatitis C and rhinoviruses Works from more than 50 leading laboratories represent latest research on strategies for the control of virus diseases molecular aspects of pathogenesis and virulence genome replication and transcription RNA recombination RNA protein interactions and host virus interactions protein expression and virion maturation RNA replication virus receptors and virus structure and assembly Highlights include analysis of the picornavirus IRES element evidence for long term persistence of viral RNA in host cells acquisition of new genes from the host and other viruses via copy choice recombination identification of molecular targets and use of structural and molecular biological studies for development of novel antiviral agents New Aspects of Positive-strand RNA Viruses Margo A. Brinton, Franz X. Heinz, 1990 General overviews and minireviews on specific viruses and properties combine to present a broad range of current findings *Positive-Strand RNA Viruses* Margo A. Brinton, Charles H. Calisher, Roland Rueckert, 1994-03-16 Positive strand RNA viruses include the majority of the plant viruses a number of insect viruses and animal viruses such as coronaviruses togaviruses flaviviruses poliovirus hepatitis C and rhinoviruses Works from more than 50 leading laboratories represent latest research on strategies for the control of virus diseases molecular aspects of pathogenesis and virulence genome replication and transcription RNA recombination RNA protein interactions and host virus interactions protein expression and virion maturation RNA replication virus receptors and virus structure and assembly Highlights include analysis of the picornavirus IRES element evidence for long term persistence of viral RNA in host cells acquisition of new genes from the host and other viruses via copy choice recombination identification of molecular targets and use of structural and molecular biological studies for development of novel antiviral agents **The Molecular Biology of the Positive Strand RNA Viruses** D. J. Rowlands, M. A. Mayo, Brian W. J. Mahy, 1987 *Positive Strand RNA Viruses* Margo A. Brinton, Roland R. Rueckert, 1987 **Dynamics of Positive-strand RNA Viruses** Huicheng Shi, 2021 A major impact of viruses on humans is that they cause a variety of diseases including AIDS flu cancer the common cold and most recently COVID 19 For many of the diseases there are no vaccines or treatments To develop the therapeutics it is necessary to understand the growth of viruses in their native environment host cells The complexity of this environment adds difficulties to the comprehension of the viruses Most research efforts focus on the molecular mechanisms behind the virus host cell interactions and organ or the clinical level response of infected subjects but relatively less attention has been paid to the middle of the spectrum the spread of virus infection over multiple infection cycles especially in a manner that is both dynamic and quantitative To help mitigate the gap in our knowledge we develop here experimental and computational methods to research the viral dynamics of two positive strand RNA viruses within and beyond the single cycle First viral

protein expression dynamics were measured utilizing a recombinant reporter strain of human rhinovirus A16 RV A16 infecting HeLa cells as an example Rhinovirus is a positive strand RNA virus and its infection causes the common cold which is frequent in both adults and children No antiviral has been approved to treat rhinovirus infection so researchers are interested in host factors involved in rhinovirus infection as potential therapeutic targets In our study infected cells were automatically imaged over time to detect the fluorescence level from the reporter virus which is a measurement of viral protein expression A set of parameters were defined to describe the timing and magnitude of the viral protein expression dynamics The numbers of fluorescent positive cells detected in the same frames over differently treated cells depict the susceptibility under different conditions Cells treated with a translation inhibitor had a lower susceptibility and those that were infected were slower in the timing of viral protein expression Cells in different stages of the cell cycle were similarly susceptible to infection and displayed similar viral protein dynamics Serum starvation reduced the susceptibility but did not change the viral protein expression in the first cycle of infection However for the second cycle the infection in serum starved cells was earlier If the mechanisms behind the serum related phenomena can be identified drugs to promote resistance to or slow the spread of rhinovirus might be discovered The discovery of the phenomena would not be possible without the study of the multi cycle dynamics of the rhinovirus with this reporter strain The second example was the single cycle and multi cycle virus growth dynamics of another positive strand RNA virus the Zika virus We are concerned about the Zika virus because its infection in pregnant women increases the risk of defects in newborns Two strains of the Zika virus that belong to different lineages were used to infect the Vero cells respectively Their infection dynamics not only characterize the distinction between the two lineages but also help identify optimization strategies for vaccine production In single cycle infections the infection of African strain resulted in slower virus production till 20 hours post infection h p i but higher final virus titer These agree with the viral protein expression measured by immunocytochemical staining and fluorescent microscopy that cells infected by the African strain had a lower fluorescent positive rate and a lower mean intensity at the early stage For multi cycle infections both strains had similar dynamics but the African strain had a higher titer The African strain had a lower extracellular degradation rate in comparison to the Asian strain Finally the growth curves of the Zika virus were fitted by ordinary differential equation ODE models using three models of delay fixed exponential distributed and gamma distributed For single cycle growth the fixed delay model recapitulated the growth of both strains without contradicting cell death curves The models did not perform ideally for multi cycle growth The fixed and exponential distributed delay models worked the best for the African and the Asian strains respectively Sensitivity analysis revealed that changing the degradation of the virus has the largest effect on the titer which is worth noticing in vaccine production The models promote our comprehension of the growth kinetics of the Zika virus and can be applied to understand the effect of antivirals and optimize vaccine production processes Overall the methods here demonstrated the potential of image based

quantitative measurements and mathematical models in analyzing single cycle and multi cycle positive strand RNA virus infection This work also provides a basis for further quantitative studies of virus host interaction at the tissue level

Evolution of Microbial Life Society for General Microbiology. Symposium, David McLean Roberts, 1996-11-13 This volume considers the evolution and diversification of early unicellular life *Positive Strand RNA Viruses*, 1989

Advances in Virus Research, 1999-10-20 *Advances in Virus Research* Fields' Virology David Mahan Knipe, Peter M. Howley, 2007 Accompanying CD ROM has same title as book **In Vitro Translation of Positive Strand RNA Viruses**

Theresa Ann Salerno, 1980 **RNA Viruses** Alan Cann, 2000-05-04 *RNA Viruses A Practical Approach* is wide ranging in scope from emerging technology such as reverse genetics and retrovirus vectors to money saving tips how to make your own silica particles for high efficiency RNA extraction and liposomes for cell transfection Chapter one covers the fundamentals of investigating RNA virus genome structure at a molecular level Chapters two and three describe techniques for mutagenesis of RNA genomes and analysis of transcription Chapter four deals with RNA virus encoded proteinases an important aspect of the control of RNA virus gene expression Chapter five considers retrovirus oncogenesis and chapter six analysis of RNA virus quasispecies Chapter seven describes systems for investigation of in vitro replication of positive stranded viruses and chapter eight the packaging of RNA virus genomes In addition to the technical aspects of reverse genetics and retrovirus vectors both of the final two chapters also consider ethical aspects of these new technologies **Molecular Virology of Human**

Pathogenic Viruses Wang-Shick Ryu, 2016-03-30 *Molecular Virology of Human Pathogenic Viruses* presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience Each chapter will describe the viral life cycle covering the order of classification virion and genome structure viral proteins life cycle and the effect on host and an emphasis on virus host interaction is conveyed throughout the text *Molecular Virology of Human Pathogenic Viruses* provides essential information for students and professionals in virology molecular biology microbiology infectious disease and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online ancillary package inclusive of annotated PowerPoint images instructor's manual study guide and test bank *Genetic Engineering of Viruses and Viral Vectors* *Proceedings of the National Academy of Sciences*, 1996-01-01 *Identification of Novel Positive-strand RNA Viruses by Metagenomic Analysis of Archaea-dominated Yellowstone Hot Springs* Benjamin Bolduc, 2012 There are no known RNA viruses that infect Archaea Filling this gap in our knowledge of viruses will enhance our

understanding of the relationships between RNA viruses from the three domains of cellular life and in particular could shed light on the origin of the enormous diversity of RNA viruses infecting eukaryotes We describe here the identification of novel RNA viral genome segments from high temperature acidic hot springs in Yellowstone National Park in the United States These hot springs harbor low complexity cellular communities dominated by several species of hyperthermophilic Archaea A viral metagenomics approach was taken to assemble segments of these RNA virus genomes from viral populations isolated directly from hot spring samples Analysis of these RNA metagenomes demonstrated unique gene content that is not generally related to known RNA viruses of Bacteria and Eukarya However genes for RNA dependent RNA polymerase RdRp a hallmark of positive strand RNA viruses were identified in two contigs One of these contigs is approximately 5 600 nucleotides in length and encodes a polyprotein that also contains a region homologous to the capsid protein of nodaviruses tetraviruses and birnaviruses Phylogenetic analyses of the RdRps encoded in these contigs indicate that the putative archaeal viruses form a unique group that is distinct from the RdRps of RNA viruses of Eukarya and Bacteria Collectively our findings suggest the existence of novel positive strand RNA viruses that probably replicate in hyperthermophilic archaeal hosts and are highly divergent from RNA viruses that infect eukaryotes and even more distant from known bacterial RNA viruses These positive strand RNA viruses might be direct ancestors of RNA viruses of eukaryotes

Cell Biology and Genetics Joanne Evans, Ania L. Manson, 2008 This text takes you through the fundamental principles of cell biology and genetics in a comprehensive yet concise integrated format Fully updated with improved layout it provides the essential concepts of cell biology and molecular genetics in a memorable easy to understand format

Fundamentals of Molecular Virology Christopher D. Richardson, Nicholas H. Acheson, 2025-05-20 Comprehensive coverage of major families of viruses including human pathogens and viruses of organisms from bacteria to plants with updated information on antiviral drugs vaccines antiviral immunity and gene therapy Fundamentals of Molecular Virology is a textbook designed for university students learning about viruses at the undergraduate or graduate levels Chapters contributed by prominent virologists cover many of the major virus families Each chapter is designed to tell a story about the viruses covered including information on discovery diseases and pathogenesis virus structure steps in replication and interaction with cellular signaling pathways This approach portrays the personality of each virus helping students to learn the material and build up their knowledge of virology starting with smaller and simpler viruses and proceeding to more complex viruses Major importance is given to viruses that infect humans and cause disease but coverage is broad including viruses of bacteria Archaea algae invertebrates and plants Information boxes highlight applications and research directions of particular significance Chapters conclude with sections presenting fundamental concepts review questions and lists of key terms which are defined in a glossary at the end of the book This 3rd edition of Fundamentals of Molecular Virology includes detailed information on the recent COVID 19 pandemic and mRNA vaccine technology additional sections on pathogenic herpesviruses and updates on recent outbreaks of Zika virus Ebola

virus and mpox diseases New chapters describe hepatitis C virus rhabdoviruses viruses of invertebrates oncolytic viruses and virus mediated gene therapy All chapters including those on innate and adaptive immune responses to virus infections virus vaccines and antiviral agents were revised and updated

Genetically Engineered Viruses Dr Eddie Blair, Dr Chris J A Ring, 2023-05-31 This book combines an up to date summary of how best to genetically engineer viruses with an overview of basic virology This unique combination makes it an invaluable research tool for virologists and molecular biologists seeking to exploit viruses for a range of applications Written by highly respected authors the book also provides comparisons to and guidelines for the use of viruses in difference applications

Schaechter's Mechanisms of Microbial Disease ,2012-05-15 Schaechter s Mechanisms of Microbial Disease provides students with a thorough understanding of microbial agents and the pathophysiology of microbial diseases The text is universally praised for telling the story of a pathogen in an engaging way facilitating learning and recall by emphasizing unifying principles and paradigms rather than forcing students to memorize isolated facts by rote The table of contents is uniquely organized by microbial class and by organ system making it equally at home in traditional and systems based curricula Case studies with problem solving questions give students insight into clinical applications of microbiology which is ideal for problem based learning

The Insect Viruses Lois K. Miller, L. Andrew Ball, 2012-12-06 There are over a million different species of insects and individually they 8 outnumber humans by more than 10 to 1 Moreover some insects live in close association with both plants and higher animals and naturally exchange viruses with them It has even been speculated that viruses in general may have radiated through the plant and animal kingdoms from common insect origins Be that as it may since insects play pivotal roles in the biosphere both to the benefit and detriment of mankind they and the viruses that infect them are important subjects for study Insects are infected by a diverse medley of viruses and this volume focuses on those insect virus families that are found primarily or exclusively in insects All major families of insect selective viruses are covered except for the baculo viruses which were described in a separate volume of The Viruses series Included in this volume are the established families of insect viruses the newly recognized ascovirus family and the nudiviruses which probably represent a separate family but currently remain unclassified The coverage of arboviruses is limited to a single chapter that focuses on their potential utility as vectors and in insect control Omitted for practical reasons are several individual insect viruses that have been described sporadically in the literature and probably represent novel virus families

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