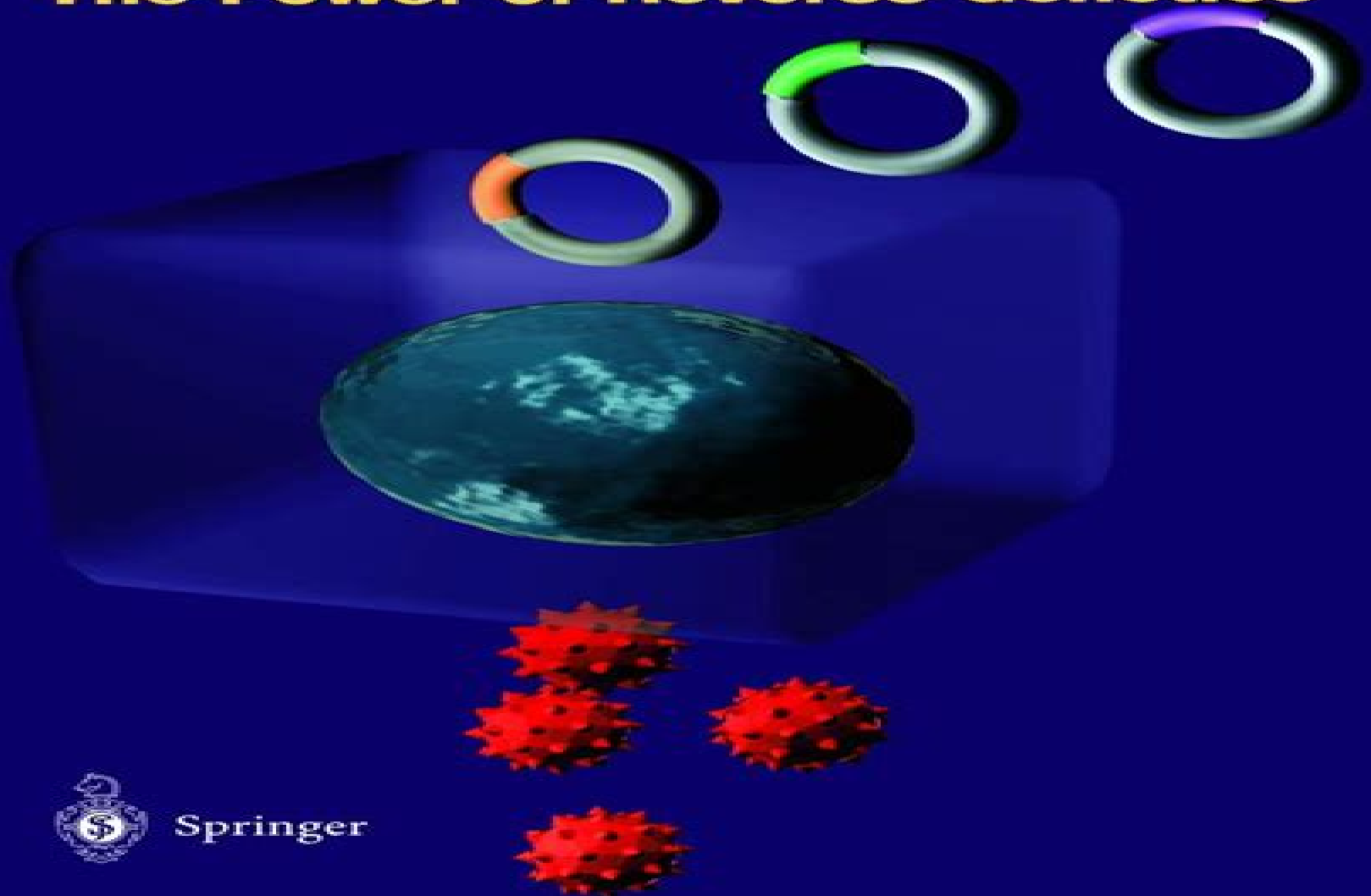


Y. Kawaoka (Ed.)

Biology of Negative Strand RNA Viruses:

The Power of Reverse Genetics



Springer

Biology Of Negative Strand Rna Viruses The Power Of Reverse Genetics

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Biology Of Negative Strand Rna Viruses The Power Of Reverse Genetics:

Biology of Negative Strand RNA Viruses: The Power of Reverse Genetics, 2004-05-07 Negative strand RNA viruses so named because of the polarity of their genomic RNA to mRNA include important human and non human pathogens This volume covers major advances in reverse genetics techniques over the past decade state of the art basic science and the clinical implications of experimental findings This should rekindle interest in negative strand RNA viruses among readers including those in other disciplines leading to further progress in understanding these important viruses and in developing effective measures of control *Biology of Negative Strand RNA Viruses: The Power of Reverse Genetics* Yoshihiro

Kawaoka, 2013-04-17 Negative strand RNA viruses so named because of the polarity of their genomic RNA to mRNA include important human and non human pathogens This volume covers major advances in reverse genetics techniques over the past decade state of the art basic science and the clinical implications of experimental findings This should rekindle interest in negative strand RNA viruses among readers including those in other disciplines leading to further progress in understanding these important viruses and in developing effective measures of control **Mass Vaccination: Global Aspects - Progress**

and Obstacles Stanley Plotkin, 2006-08-21 Mass immunization is the blitzkrieg of vaccination practice It serves to rapidly protect populations both because of the high coverage achieved and because of the herd immunity thereby induced However as in war mass immunization campaigns must be conducted intelligently with careful strategy and strong attention to logistics of supply and deployment If conducted badly mass immunization may fail or even be counter productive In this volume some of the most successful practitioners of mass immunization tell us about its art and science David Heymann and Bruce Aylward of WHO begin the book with a theoretical and practical overview of mass immunization Michael Lane who participated in the successful effort to eradicate smallpox relates how this was done using mass vaccination and other strategies Application of mass immunization by the US military is covered by John Grabenstein and Remington Nevin who have a large experience in these matters Karen Noakes and David Salisbury recount the striking successes of mass immunization in the United Kingdom The global control of the clostridia that produce diphtheria toxin is described by Charles Vitek Hepatitis A is decreasing dramatically under the impact of large scale vaccination as Francis Andr illustrates The French experience with Hepatitis B vaccination has been mixed and Francois Denis and Daniel Levy Bruhl explain the circumstances In uenza vaccination is an annual example of large scale campaigns the complexity of which is recounted by Benjamin Schwartz and Pascale Wortley **Microbial Genomics: Clinical, Pharmaceutical, and Industrial Applications** Huseyin

Tombuloglu, Amal Mahmoud, 2024-07-27 As the field of genomics has progressed our understanding of microbiology has also developed With the advent of next generation sequencing methods and advancements in instrumental resolution complex transcriptome proteome and metabolome data could be analyzed as well as detailed annotation of microbial genomes Microbial Genomics Clinical Pharmaceutical and Industrial Applications focuses on the various applications of microbial

genomics in clinical pharmaceutical and industrial fields It consists of four parts devoted to bacterial viral and fungal genomics as well as their applications in clinical pharmaceutical and industrial fields Chapters are written by experts in their respective disciplines and are tightly organized with an introduction to detailed descriptions available software implementation applications advanced topics summaries analytic questions exercises and suggested readings Throughout this book the latest genomics and biotechnological developments and discoveries as well as open problems and future challenges on microbial genomics will be highlighted Readers will be introduced to state of the art developments and trends of microbial genomics its clinical pharmaceutical and industrial applications The book will be beneficial for researchers who study microbial genomics in universities post graduate and graduate programs biology biotechnology medicine genetics microbiology industrial and environmental microbiology etc as well as the pharmaceutical and industrial sector Presents the recent genomic developments in the industrial applications of microorganisms Summarizes recent developments in microbial genomics emphasizing the role of next generation sequencing in functional genomics Focus on how transcriptomics can help better understand host responses to pathogen infection Describes applications of genomics in clinical microbiology

Rabies Alan C. Jackson, 2013-03-27 Rabies remains one of the most important global public health problems worldwide Although many important developments have been made over the past century to combat this ancient disease Rabies has become a re emergent infection in the developing world The 3e updates this classic reference with comprehensive coverage of the molecular virology pathogenesis vaccines public health immunology and epidemiology of Rabies Chapters new to this edition cover biothreat bioterrorism successful wildlife control and therapies of human Rabies and the emergence of new lyssavirus species Rabies provides physicians public health advisors epidemiologists research scientists and veterinarians with single source authoritative and up to date information on the diagnosis treatment control and prevention of this fatal infectious virus that continues to kill over 70 000 people a year Rabies remains a significant global public health risk with over 70 000 deaths a year Alan Jackson a well known researcher in this subject and has gathered a team of experts to detail the science treatment and control of Rabies Completely revised the 3e presents Rabies as a re emergent infection with greater emphasis on a global perspective of the virus Provides essential information to anyone diagnosing treating controlling and preventing the disease 70 full color figures highlight important information in microscopic studies

Methylation Anica Dricu, 2012-11-28 Alterations in the normal DNA methylation processes are known to have major consequences for embryonic development and are associated with congenital defects autoimmunity aging and malignant transformation The main purpose of this book is to provide information about the importance of methylation mechanisms in human health and disease The book covers the basic mechanism of DNA and protein methylation aiming at the advanced undergraduate and graduate biomedical students and researchers working in the epigenetic area The textbook chapters provide background as well as advanced information in the methylation area On the other hand it provide readers with both

classical and relevant recent discoveries that have been made in the field pointing out pathways where questions remain

Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species Transmission

James E. Childs, John S. Mackenzie, Jürgen A. Richt, 2007-07-23 This volume offers an overview of the processes of zoonotic viral emergence the intricacies of host virus interactions and the role of biological transitions and modifying factors The themes introduced here are amplified and explored in detail by the contributing authors who explore the mechanisms and unique circumstances by which evolution biology history and current context have contrived to drive the emergence of different zoonotic agents by a series of related events

RNA Interference Patrick J. Paddison, Peter K. Vogt, 2008-01-01 In the last few years the major effect that RNAi has had in invertebrate systems is beginning to take hold in mammalian systems through both single gene knockdown experiments and genome scale screens In the next decade there will no doubt be both notable successes and failures as we attempt to apply this genetic tool to various biological problems Through the

introduction of RNAi mammalian systems have finally gained admittance to the pantheon of model genetic systems Virus Discovery by Metagenomics: The (Im)possibilities Bas E. Dutilh, Alejandro Reyes, Richard J. Hall, Katrine L.

Whiteson, 2017-10-25 Since the late 1800s the discovery of new viruses was a gradual process Viruses were described one by one using a suite of techniques such as electron microscopy and viral culture Investigators were usually interested in a disease state within an organism and expeditions in viral ecology were rare The advent of metagenomics using high throughput sequencing has revolutionized not only the rate of virus discovery but also the nature of the discoveries For example the viral ecology and etiology of many human diseases are being characterized non pathogenic viral commensals are ubiquitous and the description of environmental viromes is making progress This *Frontiers in Virology Research Topic* showcases how metagenomic and bioinformatic approaches have been combined to discover classify and characterize novel viruses

Group B Coxsackieviruses Steven Tracy, M. Steven Oberste, Kristen M. Drescher, 2008-02-13 At last a volume that virologists have been waiting for a fully updated new edition of a major study in a key subject area The first edition of this work published in 1997 described the molecular biology of coxsackie B viruses as well as clinical epidemiological and immunological aspects of group B coxsackievirus disease This brand new edition covers all the research accomplishments of the last ten years in this vital area of medicine including immunopathology

TT Viruses Ethel-Michele de Villiers, Harald zur Hausen, 2008-11-27 Eleven years ago the circular DNA of a novel single stranded virus has been cloned and partially characterized by Nishizawa and Okamoto and their colleagues According to the initials of the patient from whom the isolate originated the virus was named TT virus This name has been subsequently changed by the International Committee on Taxonomy of Viruses ICTV into Torque teno virus permitting the further use of the abbreviation TTV Although initially suspected to play a role in non A E hepatitis subsequent studies failed to support this notion Within a remarkably short period of time it became clear that TT viruses are widely spread globally infect a large proportion of all human populations

studied thus far and represent an extremely heterogeneous group of viruses now labelled as Anelloviruses TT virus like infections have also been noted in various animal species The classification of this virus group turns out to be difficult their DNA contains between 2200 and 3800 nucleotides related so called TT mini viruses and a substantial proportion of intragenomic recombinants further complicate attempts to combine these viruses into a unifying phylogenetic concept

Viruses and Nanotechnology Marianne Manchester, Nicole F. Steinmetz, 2008-10-02 Nanotechnology is a collective term describing a broad range of relatively novel topics Scale is the main unifying theme with nanotechnology being concerned with matter on the nanometer scale A quintessential tenet of nanotechnology is the precise self assembly of nanometer sized components into ordered devices Nanotechnology seeks to mimic what nature has achieved with precision at the nanometer level down to the atomic level Nanobiotechnology a division of nanotechnology involves the exploitation of biomaterials devices or methodologies in the nanoscale In recent years a set of biomolecules has been studied and utilized Virus particles are natural nanomaterials and have recently received attention for their tremendous potential in this field The extensive study of viruses as pathogens has yielded detailed knowledge about their biological genetic and physical properties Bacterial viruses bacteriophages plant and animal eukaryotic viruses and viruses of archaea have all been characterized in this manner The knowledge of their replicative cycles allows manipulation and tailoring of particles relying on the principles of self assembly in infected hosts to build the base materials The atomic resolution of the virion structure reveals ways in which to tailor particles for higher order functions and assemblies

Lesser Known Large dsDNA Viruses James L. van Etten, 2008-10-15 Several large dsDNA containing viruses such as poxviruses smallpox and herpes viruses are well known among the scientific community as well as the general populace because they cause human diseases The large dsDNA insect infecting baculoviruses are also well known in the scientific community because they are used both as biological control agents and as protein expression systems However there are other large dsDNA containing viruses including the giant 1.2 Mb mimivirus which are less well known despite the fact that all of them play important roles in every day life Seven of these virus families are reviewed in this book

Humanized Mice Tatsuji Nomura, Takeshi Watanabe, Sonoko Habu, 2008-03-11 The term humanized mouse in this text refers to a mouse in which human tissues and cells have been transplanted and show the same biological function as they do in the human body That is the physiological properties and functions of transplanted human tissues and cells can be analyzed in the mouse instead of using a living human body It should therefore be possible to study the pathophysiology and treatment of human diseases in mice with good reproducibility Thus the humanized mouse can be used as a potent tool in both basic and clinical research in the future The development of appropriate immunodeficient mice has been indispensable in the creation of the humanized mouse which has been achieved through many years of efforts by several laboratories The first stage on the road to the humanized mouse was the report on nude mice by Isaacson and Cattanach in 1962 Thereafter nude mice were studied in detail by Fananigan and in 1968 Pantelouris found that these mice

have no thymus gland which suggested that the mice lack transplantation immunity against xenografts such as human hematopoietic stem cells At the Nude Mouse Workshops organized by Regard Povlsen Nomura and colleagues that were held nine times between 1972 and 1997 the possibility of creating a humanized mouse using nude mice was extensively examined The results however showed that certain human cancers can be engrafted in nude mice but unfortunately engraftment of normal human tissue was almost impossible

Human Antibody Therapeutics For Viral Disease Scott K.

Dessain,2007-11-21 Although the utility of human antibodies as medical therapeutics for cancer and immune diseases has been well established it is only beginning to be realized for the treatment of viral infectious diseases Polyclonal immunoglobulins have long been used for some viral diseases but they have limited potency and disease scope It should theoretically be possible to create monoclonal or oligoclonal antibody preparations that capture the essential curative functions of the humoral immune response to viral pathogens yet only a single humanized monoclonal antibody pavilizumab has been approved as a viral countermeasure Reliable technologies for creating human or humanized antibodies with defined viral antigen specificities are well established Accordingly current antibody development efforts are focused on identifying and cloning the particular antibodies that contain the fundamental curative potency of the polyclonal humoral immune response

Nuclear pre-mRNA Processing in Plants A. S. N. Reddy,Maxim V. Golovkin,2008-04-16 In recent years nuclear pre mRNA processing has taken center stage as an important regulator of gene expression and ultimately growth and development Large scale genome and cDNA sequencing projects together with bioinformatic analyses of these sequences have revealed that alternative splicing of pre mRNAs contributes greatly to transcriptome and proteome complexity in eukaryotes During the last few years tremendous progress has been made in understanding various aspects of pre mRNA processing including alternative splicing and its importance in plant growth and development as well as in plant responses to hormones and stresses This book with contributions from leading scientists in this area summarizes recent advances in nuclear pre mRNA processing in plants It provides researchers in the field as well as those in related areas with an up to date and comprehensive yet concise overview of the current status and future potential of this research in understanding plant biology

Bacterial Biofilms Tony Romeo,2008-02-26 Throughout the biological world bacteria thrive predominantly in surface attached matrix enclosed multicellular communities or biofilms as opposed to isolated planktonic cells This choice of lifestyle is not trivial as it involves major shifts in the use of genetic information and cellular energy and has profound consequences for bacterial physiology and survival Growth within a biofilm can thwart immune function and antibiotic therapy and thereby complicate the treatment of infectious diseases especially chronic and foreign device associated infections Modern studies of many important biofilms have advanced well beyond the descriptive stage and have begun to provide molecular details of the structural biochemical and genetic processes that drive biofilm formation and its dispersion There is much diversity in the details of biofilm development among various species but there are also

commonalities In most species environmental and nutritional conditions greatly influence biofilm development Similar kinds of adhesive molecules often promote biofilm formation in diverse species Signaling and regulatory processes that drive biofilm development are often conserved especially among related bacteria Knowledge of such processes holds great promise for efforts to control biofilm growth and combat biofilm associated infections This volume focuses on the biology of biofilms that affect human disease although it is by no means comprehensive It opens with chapters that provide the reader with current perspectives on biofilm development physiology environmental and regulatory effects the role of quorum sensing and resistance phenotypic persistence to antimicrobial agents during biofilm growth Measles Diane E. Griffin, Michael B. A. Oldstone, 2008-10-30 Measles virus one of the most contagious of all human viruses has been largely contained by the development and use of a vaccine that was introduced 50 years ago These two volumes were timed to honor the introduction of the vaccine and to record the enormous advancements made in understanding the molecular and cell biology pathogenesis and control of this infectious disease Where vaccine has been effectively delivered endemic measles virus transmission has been eliminated However difficulties in vaccine delivery lack of health care support and objection to vaccination in some communities continue to result in nearly 40 million cases and over 300 000 deaths per year from measles *Advances in Multiple Sclerosis and Experimental Demyelinating Diseases* Moses Rodriguez, 2007-12-24 Controversy still exists regarding how early disease modifying agents DMA should be commenced and whether all patients with relapsing remitting MS should in fact be treated To answer these questions it is also important to know the natural history of the disease MS affects nearly 400 000 people in the United States With their novel multifaceted approach to basic science the authors of this book offer help to clinicians and hope to patients **Immunology, Phenotype First: How Mutations Have Established New Principles and Pathways in Immunology** Bruce Beutler, 2008-06-20 This monograph deals with the impact of classical genetics in immunology providing examples of how large immunological questions were solved and new fields opened to analysis through the study of phenotypes either spontaneous or induced As broad as biology has become there are those who do not fully understand what the genetic approach is and how it differs fundamentally from most of the methods available to natural scientists They may hold the opinion that genetics has run its course since Mendel read his paper on peas in 1865 Why bother with classical genetics they may ask Won't all genes be knocked out soon anyway Or they are intimidated by genetics with its heavy reliance on model organisms that seem so alien What has *C. elegans* to do with me the questioning might go It doesn't even have lymphocytes Such skeptics may be unaware that the mouse is fast becoming as tractable a model organism as the fly and that humans may not be too far behind So I would like to introduce the topic with a few words about the power of genetics and why it has contributed so much to immunology and to biology in general Genetics as the word is used here is not merely the science of heredity but much more than that It is the science of exceptions the science that takes note of heritable variation and seeks to explain it at the most fundamental level

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