



RECOMBINANT POXVIRUSES

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Recombinant Poxviruses

**Zhulong Yang, Panayampalli Subbian
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Recombinant Poxviruses Matthew M. Binns, Geoffrey L. Smith, 2024-12-20 *Recombinant Poxviruses* provides a comprehensive examination of poxviruses with an emphasis on the potential of these viruses as new vaccines. The book considers a wide range of issues involved in producing new genetically engineered live vaccines such as efficacy, safety, stability, cost, host range, immune response, immunization route, use of multivalent vaccines, and need for revaccination. The opening chapter describes the origin of vaccinia virus, its use to eradicate smallpox, and the pathogenesis of poxvirus infections. Subsequent chapters examine the molecular biology of poxviruses, methods of constructing vaccinia virus recombinants, and applications, the use and immune responses induced by poxvirus recombinants as live vaccines, and the important issues of the safety and immunogenicity of vaccinia virus. The book's final two chapters report the progress that has been made developing avipoxviruses and parapoxviruses as candidate recombinant vaccines. *Recombinant Poxviruses* will be a welcome addition to the bookshelves of virologists, microbiologists, infectious disease specialists, and veterinarians.

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Poxviruses Andrew Mercer, Axel Schmidt, Olaf Weber, 2007-02-15 The study of poxviruses has a long and distinguished history that includes Jenner's founding work on smallpox vaccination. In the more than 200 years since that time we have seen the remarkable eradication of smallpox. It is difficult to overstate the significance of that achievement. It not only removed a disease that must rate as one of humankind's greatest scourges but also demonstrated the effectiveness of the general principle of vaccination in our battles against disease. This book begins with a review of smallpox and its causative agent, Variola virus. The vaccine used in the successful smallpox eradication campaign, vaccinia virus, is reviewed in the following chapter that describes its origin and its use as a vaccine, as well as the current understanding of the molecular biology and pathogenesis of this virus. Vaccinia virus is the most intensively studied poxvirus, and the descriptions of the biology of this virus are relevant to all vertebrate poxviruses. The eradication of smallpox has drawn attention to the potential threat posed

by other orthopoxviruses that infect humans particularly Monkeypox virus A description of this virus is given in the third chapter Jenner's original vaccine is believed to have been Cowpox virus and this virus is reviewed in the chapter by Essbauer and Meyer Additional chapters are devoted to each of the recognized genera of the vertebrate poxviruses and a further chapter describes the subfamily of poxviruses infecting invertebrates Together these provide a comprehensive review of the poxvirus family

Vaccinia, Mpox, and Other Poxviruses Zhilong Yang, Panayampalli Subbian Satheshkumar, 2024-12-02 This detailed volume covers new and classic methods for vaccinia virus the prototype poxvirus but also extends to methods and protocols specifically tailored for mpox virus lumpy skin disease virus and myxoma virus As these viruses continue to expand their territories research into the impact of poxviruses on human and animal health as well as investigating vaccine vectors and oncolytic virotherapy becomes more important and this book provides a thorough resource for this area of study Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Vaccinia Mpox and Other Poxviruses Methods and Protocols serves as an ideal resource for virologists working in this vital section of the field [Library of Congress Subject Headings](#) Library of Congress. Cataloging Policy and Support Office, 2009

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Viral Vectors in Veterinary Vaccine Development Thiru Vanniasinkam, Suresh K. Tikoo, Siba K. Samal, 2020-11-30 This highly accessible textbook introduces readers to the development of viral vectors and discusses their application in veterinary vaccinology It offers comprehensive information on the latest advances in this emerging research field together with a broad overview of the history of veterinary vaccines and viral vectors The book also addresses issues concerning funding translational research and ethics that will impact the future development manufacture and global use of viral vector based veterinary vaccines The book addresses the needs of graduate students and researchers in the fields of Veterinary Medicine Virology and Immunology

Biological Safety Dawn P. Wooley, Karen B. Byers, 2017-02-01 Biological safety and biosecurity protocols are essential to the reputation and responsibility of every scientific institution whether research academic or production Every risk no matter how small must be considered assessed and properly mitigated If the science isn't safe it isn't good Now in its fifth edition Biological safety Principles and Practices remains the most comprehensive biosafety reference Led by editors Karen Byers and Dawn Wooley a team of expert contributors have outlined the technical nuts and bolts of biosafety and biosecurity within these pages This book presents the guiding principles of laboratory safety including the identification assessment and control of the broad variety of risks encountered in the lab the production facility and the classroom Specifically Biological Safety covers protection and control elements from biosafety level cabinets and personal protection systems to strategies and decontamination methods administrative concerns in biorisk management including regulations guidelines and compliance various aspects of risk assessment covering bacterial

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Molecular Approaches to Tumor Immunotherapy Yang Liu, 1998 The articles in this book are contributed by leading scientists working in the fields of immunology tumor immunotherapy and gene therapy The book identifies the opportunities that modern immunology and molecular biology have provided for tumor therapy Moreover it contains critical essays that analyze the progress and obstacles of tumor immunotherapy **Genetic Engineering of Viruses and Viral Vectors**

Proceedings of the National Academy of Sciences, 1996-01-01 Fundamentals of Molecular Virology Christopher D. Richardson, Nicholas H. Acheson, 2025-04-22 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 *Novel Vaccination Strategies* Stefan H. E. Kaufmann,2006-01-24 The protection mode of most available vaccines is based on antibody responses Since efficient immune responses to many pathogens rely on activating all arms of the immune system traditional vaccine development does not provide efficient protection against many diseases Novel vaccination strategies need to allow presentation of antigens that activate the full array of the immune response in the right composition and should prevent pathogen entry by mobilizing the mucosal immune response New technological advances optimize the immunogenicity of live and sub unit vaccines This book offers an interdisciplinary overview on research and future strategies for rational vaccine design based on recent developments in molecular biology and immunology It covers new aspects of the immunological interplay between prokaryotic and eukaryotic systems as well as achievements in the development of novel vaccine candidates Chapters on edible vaccines on vaccines against bioterror agents and on economical and safety aspects of novel vaccine development round off this title *Viral Vectors for Vaccine Delivery* Vivek P. Chavda,Vasso Apostolopoulos,2025-05-22 The book is essential for anyone interested in vaccine development as it highlights the unique advantages of viral vector vaccines in triggering robust long lasting immunity and provides an in depth exploration of the technology and advancements shaping the future of healthcare Viral vector vaccines have several unique advantages when compared to other vaccine platforms These powerful vaccines are capable of triggering long lasting cellular responses such as cytotoxic T lymphocytes that eradicate virus infected cells Viral vector based vaccines use a harmless virus to smuggle the instructions for making antigens from the disease causing virus into cells triggering protective immunity against them In contrast to conventional antigen containing vaccines these vaccines use the body's natural defense system to produce antigens by using a modified virus to deliver genetic code for an antigen *Viral Vectors for Vaccine Delivery* provides a comprehensive overview of viral vectors and their applications in vaccine delivery Its chapters explore various aspects of viral vector technology from the basic principles of viral vector construction to the latest advancements in gene editing and manufacturing Readers will find that the book Offers a deep dive into the world of viral vectors covering their principles applications and potential impact on healthcare Explores how viral vectors are revolutionizing vaccine development providing a more effective and targeted approach to disease prevention Discusses the potential of viral vectors to address emerging health challenges and contribute to a healthier world Audience Research scholars pharma process engineers research scientists pharmacy students and professionals from the pharmaceutical and biopharmaceutical industry interested in drug discovery chemical biology computational chemistry medicinal chemistry and bioinformatics *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

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