

Molecular Biology of Picornaviruses



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Bert L. Semler and Eckard Wimmer

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Vincent R. Racaniello



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Molecular Biology of Picornaviruses Bert L. Semler, Eckard Wimmer, 2002 Up to date and in depth analysis The Molecular Biology of Picornaviruses R. Perez-Bercoff, 2013-03-09 vi The intent therefore was to provide for a fresh and original review of all relevant topics and issues in the field following a comprehensive and coherent programme Such an ambitious goal could only be reached thanks to the unlimited collaboration of the lecturers They were requested to produce nothing less than freer broader speculative and personal considerations of the subjects they had to cover And so they did their presentations unfolded a fantastic picture a most fascinating and meaningful identification of the field its present problems and trends But participants at this conference contributed many valuable observations while discussing specific points Unfortunately more often than not it proved impossible to identify them in the records Accordingly we incorporated here and there some of these anonymous contributions as part of the edited version of the texts To all of the participants I would like to express my gratitude for their actively taking part in all the scientific and social activities lectures round tables posters encounters of this N A T O ASI The result was a stimulating atmosphere conducive to authentic scientific exchanges Hence the success of this meeting should be credited only to them Finally on behalf of all participants I would like to thank Professor Sissini the Mayor of Maratea and Mr B Vitolo the Chairman of its Tourist Office their enthusiastic support greatly contributed to make of our time in their wonderful seaside resort an unforgettable one **Molecular Biology of Picornaviruses** Bert L. Semler, Eckard Wimmer, 2002 The Picornaviruses Ellie Ehrenfeld, Esteban Domingo, Raymond P. Roos, 2010-09-15 A springboard for developing new approaches to understanding preventing and treating picornaviral diseases Examines the most current breakthroughs as well as the challenges that lie ahead in picornavirus research encapsulates current knowledge of the molecular biology evolution and pathogenesis of this large family of viruses and examines the diseases that these viruses cause and the latest vaccines and antiviral drugs to prevent and control those diseases Explores the structural and mechanistic bases of picornavirus replication highlighting new insights about the host cell interactions needed for virus growth and illustrates how the regular occurrence of mutations typical of viruses with RNA as genetic material generates the quasispecies dynamics that underlie viral fitness Focuses on picornaviruses that cause disease examining pathogenicity and innate and acquired immune responses against infection as well as the latest vaccine and antiviral drug strategies Molecular Biology of Hand-Foot-Mouth Diseases Xingli Xu, Yanchun Che, Qihan Li, 2024-03-06 This book aims to compile the latest scientific information on hand foot and mouth disease HFMD including its epidemiology etiology pathology immune response and vaccine development Interestingly the authors shared their own research experience and offered distinctive insights into the pathogenesis of HFMD and vaccine development The intended audience including university researchers graduate students and vaccine engineers is well defined The book is positioned as a resource that not only presents current knowledge but also has the potential to inspire further research in understanding

immune pathogenesis and advancing vaccine development for HFMD

The Molecular Biology of Poliovirus F. Koch, G. Koch, 2012-12-06 Years ago when we were asked to write a book on the present day knowledge of the molecular biology of poliovirus we did not expect that such an apparently simple task could involve so much time and effort Our writing was hampered by the fact that both of us are full time workers so that this monograph is mainly a spare time expedience The main attention of this book focuses on a detailed review of the molecular biology of poliovirus and especially on the advances of the last decade medical and environmental aspects are only briefly mentioned Observations from older studies are considered in view of more recent information Some of the older observations provided fundamental insights and paved the way for present day research too often such data has been neglected or independently rediscovered Today poliovirus research has again attracted considerable interest High points gained within the last few years were the elucidation of the complete nucleotide sequences of the RNAs of the three poliovirus serotypes and the corresponding vaccine strains the demonstration of genome evolution during transmission of poliovirus in an epidemic further characterization of the antigenic sites on the virus particle and of the antigenic drift characterization of alternate conformational states of the virion capsid the development of monoclonal antibodies against some of the virus proteins observations on the role of the plasma membrane cytoskeleton and cytoplasmic membranes as mediators in the virus induced redirection of the synthetic machinery of the host cell and characterization

Picornaviruses Vincent R. Racaniello, 2012-12-06 This volume provides a comprehensive up to date review of the most active areas in picornavirus research Included are chapters on picornavirus receptors translation protein processing RNA replication antigenic structure and genetics The work described represents the fruit of technological advances in the field realized at the beginning of the 1980 s and provides an outline for future experimentation

Exploring the Role of Antiviral Drugs in the Eradication of Polio National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Development of a Polio Antiviral and Its Potential Role in Global Poliomyelitis Eradication, 2006-05-04 Exploring the Role of Antiviral Drugs in the Eradication of Polio Workshop Report is a report of a workshop in which experts evaluated whether an antiviral drug against poliovirus would be helpful in the final stages of the global polio eradication campaign The World Health Organization currently plans to stop using oral polio vaccine three years after the detection of the last case of transmission of wild polio virus This is because the vaccine contains live weakened polio viruses that can spread and revert to virulence in populations that have not been immunized Under this plan an antiviral drug could be useful to control any polio outbreaks caused by a vaccine derived virus that might occur after vaccination ends and the number of unimmunized people in the world steadily increases The report recommends that planning and development of such drugs should be initiated now It identifies several promising targets for drug development and outlines the steps needed for planning for clinical trials and regulatory approval

Biomedical Index to PHS-supported Research, 1989

Comprehensive Virology Heinz Fraenkel-Conrat, 2012-12-06 The time seems ripe for a critical compendium of

that segment of the biological universe we call viruses Virology as a science having passed only recently through its descriptive phase of naming and numbering has probably reached that stage at which relatively few new truly new viruses will be discovered Triggered by the intellectual probes and techniques of molecular biology genetics biochemical cytology and high resolution microscopy and spectroscopy the field has experienced a genuine information explosion Few serious attempts have been made to chronicle these events This comprehensive series which will comprise some 6000 pages in a total of about 18 volumes represents a commitment by a large group of active investigators to analyze digest and expostulate on the great mass of data relating to viruses much of which is now amorphous and disjointed and scattered throughout a wide literature In this way we hope to place the entire field in perspective and to develop an invaluable reference and sourcebook for researchers and students at all levels This series is designed as a continuum that can be entered anywhere but which also provides a logical progression of developing facts and integrated concepts Comprehensive Virology: Reproduction of Small and Intermediate RNA Viruses H. Fraenkel-Conrat, 2012-12-06 The time seems ripe for a critical compendium of that segment of the biological universe we call viruses Virology as a science having only recently passed through its descriptive phase of naming and numbering has probably reached that stage at which relatively few new truly new viruses will be discovered Triggered by the intellectual probes and techniques of molecular biology genetics biochemical cytology and high resolution microscopy and spectroscopy the field has experienced a genuine information explosion Few serious attempts have so far been made to chronicle these events This comprehensive series which will comprise some 6000 pages in a total of about 22 volumes represents a commitment by a large group of active investigators to analyze digest and expostulate on the great mass of data relating to viruses much of which is now amorphous and disjointed and scattered throughout a wide literature In this way we hope to place the entire field in perspective as well as to develop an invaluable reference and sourcebook for researchers and students at all levels This series is designed as a continuum that can be entered anywhere but which also provides a logical progression of developing facts and integrated concepts **Viral Genome Replication** Craig E. Cameron, Matthias Gotte, Kevin Raney, 2009-05-28 This book provides the first comprehensive review of viral genome replication strategies emphasizing not only pathways and regulation but also the structure function mechanism and inhibition of proteins and enzymes required for this process Research Awards Index, 1989 *Viruses and Apoptosis* Covadonga Alonso, 2008-03-27 Using different viral models molecular pathways regulated by viral genes and their role in the pathogenesis of infection are analyzed The book also offers an update of known signaling pathways in apoptosis and their role in normal and infected cells Special emphasis is given to molecular pathways underlying viral transformation and oncogenesis and how research in this area is opening opportunities in cancer therapy Current Topics in Microbiology and Immunology W. Henle, P. H. Hofschneider, H. Koprowski, F. Melchers, R. Rott, H. G. Schweiger, P. K. Vogt, 2012-12-06 **Porcine Viruses** Linda Dixon, Simon Graham, 2018-07-10 This book is a printed edition of the Special

Issue Porcine Viruses that was published in Viruses **Diseases of Swine** Jeffrey J. Zimmerman, 2012-05-15 First published in 1958 the Tenth Edition is a fully revised and updated version of this classic reference Now published in association with the American Association of Swine Veterinarians the Tenth Edition adds new knowledge throughout in a reorganized format to provide more intuitive access to information Diseases of Swine remains a source of comprehensive information on swine production health and management for swine health specialists of all disciplines and at any level of expertise including veterinarians researchers and students Featuring a new content the Tenth Edition adds chapters on the cardiovascular system diagnostic tests and test performance food safety and zoonotic diseases show and pet pigs and the most current information on both long recognized and emerging pathogens Essentials of Microbiology Amita Jain, Parul Jain, 2019-05-23 This book presents a thorough and systematic approach of microbiology in a very clear concise simplified and easily understandable manner The text is amply illustrated by large number of figures flowcharts tables and boxes This will help not only in understanding the concepts to clear the professional exams but will also teach the importance and application of microbiology in clinical practice Ideal for UG dental medical and nursing students PG entrance examinations physiotherapists Optometrist and practicing microbiologists Salient features Covers all branches of microbiology viz general and systematic bacteriology virology mycology parasitology hospital infection control and mycobacteriology Organization of the text into sections helps to recollect the things easily Chapter outline in the beginning of each chapter helps to facilitate self learning by the students Syndromic approach to common syndromes highlights the important causes and laboratory diagnostic approach Flowcharts and line diagrams represent the diagnostic procedures and life cycles Multiple choice questions section by section at the end of the book for self assessment of the topics studied Additional feature Use in conjunction with Practical Manual in Microbiology would suffice study in microbiology for medical and dental students Online feature Complimentary access to online Videos with full e book **Desk Encyclopedia of General Virology** Marc H.V. van Regenmortel, Brian W.J. Mahy, 2010-05-21 This volume derived from Encyclopedia of Virology provides an overview of the development of virology during the last ten years Entries detail the nature origin phylogeny and evolution of viruses It then moves into a summary of our understanding of the structure and assembly of virus particles and describes how this knowledge was obtained Genetic material of viruses and the different mechanisms used by viruses to infect and replicate in their host cells are highlighted The volume is rounded out with an overview of some major groups of viruses with particular attention being given to our current knowledge of their molecular biology The most comprehensive single volume source providing an overview of virology to non specialists Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help when preparing for lectures writing reports or drafting grant applications Progress in Nucleic Acid Research and Molecular Biology, 1988-11-01 Progress in Nucleic Acid Research and Molecular Biology

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