

Comparative Virology

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Applied Virology Gerard Meurant 2012-12-02 Applied Virology covers the practical applications of the developments in basic virology, not only to virology but to other disciplines as well, and demonstrates the impact of virus diseases on the environment, economy, and the health of man, animals, and plants. The book discusses topics on new virus vaccine technology and chemotherapy; the status of vaccination against viral diseases; and the epidemiology and diagnosis of viral diseases. The text provides information on the strategy used to produce virus vaccines; on antiviral chemical compounds; on simple, rapid, and specific diagnostic techniques; and on epidemiology in relation to the prevention and control of virus diseases. Noninfectious, synthesized peptides used as safe virus vaccines are reviewed with special attention to their immunogenicity, multispecificity, and usefulness in case of epidemics. Virologists will find the book useful.

Introduction to Virology K. Smith 2012-12-06 The study of viruses, or virology as it is now called, had its origin in 1892 when a Russian botanist, Iwanowsky, showed that sap from a tobacco plant with an infectious disease was still highly infectious after passage through a filter capable of retaining bacterial cells. From such humble beginnings the study of these 'filter-passing agents', or viruses, has developed into a separate science which rivals, if it does not excel, in importance the whole of bacteriology. The importance of viruses lies not only in the diseases they cause in every type of living organism, but also because of their intimate relationship with the living cell, in which alone they can reproduce. Their study has influenced the whole of biology by greatly increasing our knowledge of the gene, genetics, and molecular structure; there is also the possible connexion of viruses with human cancer, in view of the occurrence of many viral cancers in other animals. The book attempts to give a comprehensive but necessarily superficial survey of the subject as a whole and should help senior undergraduates and postgraduate students who wish to gain some knowledge of virology. Further information is available from the extensive bibliography.

Comparative virology : symposium 1973

Comparative Virology Karl Maramorosch 1971

Advances in Virus Research 1987-03-30 Advances in Virus Research

Viruses of Lower Vertebrates Winfried Ahne 1989-09-15 Attention to viral infections and pathology previously focussed on diseases of economically important fish. In recent years, however, much new information on molecular virology and oncogenicity derives from viruses occurring in amphibians. New insights into the field of zoonosis were gained by studies of lower vertebrates serving as intermediate hosts in multiple human infections. Certain viruses, e.g. the influenza virus or calicivirus, seem capable of bridging species lines and even the land - sea interface. Global developments in aquaculture are indicated in influenza pandemics. These proceedings present research findings on viruses of fish, amphibians and reptiles, including defence mechanisms, zoonoses, evolutionary considerations and diagnostic approaches.

Viruses and Environment Edouard Kurstak 2012-12-02 Viruses and Environment contains the proceedings of the Third International Conference on Comparative Virology, held at Mont Gabriel, Quebec, Canada on May 1977. The primary focus of the conference is the ecology of viruses, that is, the interrelationships between organisms and their environment. Organized into seven parts with a total of 33 chapters, this book centers on the impact of viruses on the environment; the persistent virus infections of man, vertebrate and invertebrate animals, and plants; and the smallest disease agents, the viroids. In particular, this book describes the reservoirs of viruses, such as arthropod vectors, water, cultivated plants, and wild animals; safety considerations concerning the use of live virus vaccines; and the viral insecticides. The use of bacterial viruses in genetic engineering is also addressed. This treatise will be valuable to research workers in medical and biomedical fields; biological control; and animal and plant quarantine. It will also benefit the university teachers and graduate students.

New Developments in Diagnostic Virology P.A. Bachmann 2012-12-06 The contributions to this book derived from the Seventh Munich Symposium on Microbiology on June 3 and 4, 1981, which was organized by the WHO Centre for Collection and Evaluation of Data on Comparative Virology at the Institute of Medical Microbiology, Infectious and Epidemic Diseases, University of Munich, Federal Republic of Germany. One of our principal purposes was to establish a forum at which the comparative aspects of questions of current interest in the field of medical virology could be discussed. In addition to the presentation of recent findings in microbiology, our overall aim was to crystallize trends and indicate new directions for future research activities. This book is a topical review of "New Horizons in Diagnostic Virology." Every one interested in virology is aware of the tremendous progress made in viral diagnostic techniques during recent years and the growing importance of viral diagnosis in human and veterinary medicine. There is yet another step that diagnostic virology has to take: the introduction on a routine basis of methods of molecular biology into the viral diagnostic laboratory. The application of monoclonal antibodies and techniques for the chemical and biological identification of proteins, carbohydrates, and enzymes are discussed, as is the introduction of techniques for the characterization of nucleic acids in viral diagnosis.

Foundations of Comparative Genomics Arcady R. Mushegian 2010-07-20 This book provides an overview of computational analysis of genes and genomes, and of some most notable findings that come out of this work. Foundations of Comparative Genomics presents a historical perspective, beginning with early analysis of individual gene sequences, to present day comparison of gene repertoires encoded by completely sequenced genomes. The author discusses the underlying scientific principles of comparative genomics, argues that completion of many genome sequences started a new era in biology, and provides a personal view on several state-of-the-art issues, such as systems biology and whole-genome phylogenetic reconstructions. This book is an essential reference for researchers and students in computational biology, evolutionary biology, and genetics. Presents an historic overview of genome biology and its achievements Includes topics not covered in other books such as minimal and ancestral genomes Discusses the evolutionary resilience of protein-coding genes and frequent functional convergence at the molecular level Critically reviews horizontal gene transfer and other contentious issues Covers comparative virology as a somewhat overlooked foundation of modern genome science

The Molecular Basis of Viral Infection 2015-01-13 Virology is in a sense both one of the most important precursors and one of the most significant beneficiaries of structural and cellular molecular biology. Numerous breakthroughs in our

understanding of the molecular interactions of viruses with host cells are ready for translation into medically important applications such as the prevention and treatment of viral infections. This book collects a wide variety of examples of frontline research into molecular aspects of viral infections from virological, immunological, cell- and molecular-biological, structural, and theoretical perspectives. Contributors are world leaders in their fields of study and represent prestigious academic and research institutions Review articles vary vastly in scope: some focus on a narrowly defined scientific problem of one particular virus with careful introduction for the non-specialist; others are essays in general and comparative virology with forays into specific viral species or molecules The different perspectives complement each other and collectively the contributions provide an impression of the fast-moving frontlines of virology while showing how the problems have evolved Structural data are presented through high-quality illustrations

Consultation on the WHO/FAO Programme on Comparative Virology, Rome, 25-27 September 1979 1980

Report of the NIAID Task Force on Virology National Institute of Allergy and Infectious Diseases. Task Force on Virology 1979

Comparative Virology Symposium on Comparative Virology 1973

SsDNA Viruses of Plants, Birds, Pigs and Primates Geneviève Clement 2001

SsDNA Viruses of Plants, Birds, Pigs and Primates André Jestin 2004

Studies on the Comparative Virology of Wild-type and Attenuated Strains of Japanese Encephalitis Virus Jing Xin Cao 1991

Virus Structure Robert W. Horne 2014-06-28 Virus Structure describes the physical characteristics of isolated viruses that represent typical structural groups, with particular reference to those features analyzed with the aid of the electron microscope. For descriptive purposes, the book has been divided into sections starting with the small icosahedral viruses and leading to the larger and more sophisticated structures, regardless of whether they are animal, plant, or bacterial viruses. These include double-stranded DNA icosahedral viruses, herpesvirus, viruses with helical symmetry, and viruses with complex or a combination of symmetries. Many common architectural features will be found in those viruses selected for discussion in each of the sections, and for these reasons the introduction places some emphasis on the symmetry elements rather than the shapes of viruses. The mechanism by which viruses enter host cells and the events that follow once the cell has been infected are only mentioned briefly as the virus-host interaction is a relatively complex one.

PROCEEDINGS OF A SYMPOSIUM ON COMPARATIVE VIROLOGY- SOCIETY FOR GENERAL MICROBIOLOGY VIRUS GROUP. Society for General Microbiology. Virus Group

Strategies in virus-host relationships 1998

Comparative Virology 1962

Comparative Virology 1962

Virology National Institutes of Health (U.S.) 1978

Comprehensive Virology 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.

The Arboviruses: Thomas P. Monath 2020-03-27 First Published in 1988, this five volume set documents the transmission and growth of Arthropod born viruses. Carefully compiled and filled with a vast repertoire of notes, diagrams, and references this book serves as a useful reference for Students of Epidemiology, and other practitioners in their respective fields.

Comparative Virology F. Brown 1973

Symposium Comparative Virology Fred Brown 1973

Advances in Virus Research 1991-05-01 Advances in Virus Research

Viruses, Evolution, and Cancer Karl Maramorosch 1974

SsDNA Viruses of Plants, Birds, Pigs and Primates 2004

Studies on the Comparative Virology of Pestiviruses Paulo Michel Roehe 1991

Comparative Virology Karl Maramorosch 2014-06-28 Comparative Virology provides an integrated comparison of viruses, based on their chemical and morphological characteristics. These descriptions will not only give the reader a background but also a detailed analysis of the various groups. In some instances the groups are still host related, as in the case of bacteriophages and polyhedral insect viruses. In others, for instance in pox viruses, the group comprises viruses of vertebrates and invertebrates. The hosts of the bacilliform Rhabdovirales range from man and other warm-blooded vertebrates through invertebrate animals to plants. A special chapter is devoted to viruses devoid of protein—a group that is of great interest and that has only recently been recognized. Since there is historical and practical interest in ecological groupings, such as arboviruses and oncogenic viruses, chapters on such groups have also been included. The book opens with a discussion on the classification of viruses. Chapters dealing with DNA viruses and RNA viruses follow, and the ecologically and disease-oriented groups complete the volume. It is hoped that "Comparative Virology" will help bring unity to the science of virology through the comparative approach that is not dependent on virus-host interactions. The combined efforts of eminent contributors to discuss and evaluate new information will hopefully benefit all who are interested in virology

Proceedings : Comparative Virology & Porcine Post-weaning Multisystemic Wasting Syndrome Andre Jestin 2001

Comparative Virology. Symposium (Comparative Virology). Held by the Society for General Microbiology Virus Group at the Middlesex Hospital Medical School on 3 and 4 Jan 1973 Symposium Comparative Virology 1973

Electron Microscopy in Diagnostic Virology Frances W. Doane 1987-01-30

Human T-Lymphotropic viruses (HTLV) Patrick Goubau 1993

Conference (40 International) on Comparative Virology: Control of Virus Diseases
KURSTAK E. (ED.). 1984

**Comparative Virology. Conference Editor: H. Koprowski. List of Authors: A.O. Betts
[and Others]** Hilary Koprowski 1962

ssDNA viruses of plants, birds, pigs and primates 2001

Comparative Plant Virology Roger Hull 2009-03-10 Comparative Plant Virology
provides a complete overview of our current knowledge of plant viruses, including
background information on plant viruses and up-to-date aspects of virus biology
and control. It deals mainly with concepts rather than detail. The focus will be

on plant viruses but due to the changing environment of how virology is taught,
comparisons will be drawn with viruses of other kingdoms, animals, fungi and
bacteria. It has been written for students of plant virology, plant pathology,
virology and microbiology who have no previous knowledge of plant viruses or of
virology in general. Boxes highlight important information such as virus
definition and taxonomy Includes profiles of 32 plant viruses that feature
extensively in the text Full color throughout

SsDNA Viruses of Plants, Birds, Pigs and Primates André Jestin 2004