Comparative Virology

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

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.

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

Control of Virus Diseases International Comparative Virology Organization 1984

Comparative Virology Symposium on Comparative Virology 1973

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

Comparative virology : symposium 1973

Human T-Lymphotropic viruses (HTLV) Patrick Goubau 1993

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

Viruses, Evolution, and Cancer Karl Maramorosch 1974

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

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

Comparative Virology 1962

Viruses, Evolution and Cancer Edouard Kurstak 1974

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

Strategies in virus-host relationships 1998

Comparative Virology 1962

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

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 kingdomes, 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

Guide to Clinical and Diagnostic Virology Reeti Khare 2020-08-06 The explosion in clinical testing has been especially rapid in virology, where emerging viruses and growing numbers of viral infections are driving advances. The Guide to Clinical and Diagnostic Virology offers a digestible view of the breadth and depth of information related to clinical virology, providing a practical, working knowledge of the wide array of viruses that cause human disease. Introductory chapters cover the basics of clinical virology and laboratory diagnosis of infections, including virus structure, life cycle, transmission, taxonomy, specimen types and handling, and a comparison of assays used for detection. Detailed sections on important topics include Viral pathogens and their clinical presentations Diagnostic assays and techniques, including culture-based, immunological, and molecular Prevention and management of viral infections, with guidance on biosafety, vaccines, and antiviral therapies The regulatory environment for laboratory testing, including regulatory requirements and assay performance and interpretation Critical concepts are carefully curated and concisely summarized and presented with detailed illustrations that aid comprehension, along with important highlights and helpful hints. These features, plus question sections that reinforce significant ideas and key concepts, make this an invaluable text for anyone looking for an accessible route through clinical and diagnostic virology. Laboratory technologists, medical students, infectious disease and microbiology fellows, pathology residents, researchers, and everyone involved with viruses in the clinical setting will find the Guide to Clinical and Diagnostic Virology an excellent text as well as companion to clinical virology references.

Uirusu no shinka Ky□to Daigaku. Uirusu Kenky□jo 1970

Advances in Virus Research 1986-08-12 Advances in Virus Research

Symposium Comparative Virology Fred Brown 1973

SsDNA Viruses of Plants, Birds, Pigs and Primates 2004

The Arboviruses: Thomas P Monath 2021-03 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.

The Molecular Basis of Viral Infection P. J Klasse 2015-01-08 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

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 écologie 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

Conference (4o International) on Comparative Virology: Control of Virus Diseases KURSTAK E. (ED.). 1984

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 Repub lic 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 fmdings 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 diag nosis.

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.

Studies on the Comparative Virology of Pestiviruses Paulo Michel Roehe 1991

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.

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

ssDNA viruses of plants, birds, pigs and primates 2001

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

Comparative Virology Karl Maramorosch 1971

Viruses and Environment Edouard Kurstak 1978

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

Comparative Virology F. Brown 1973