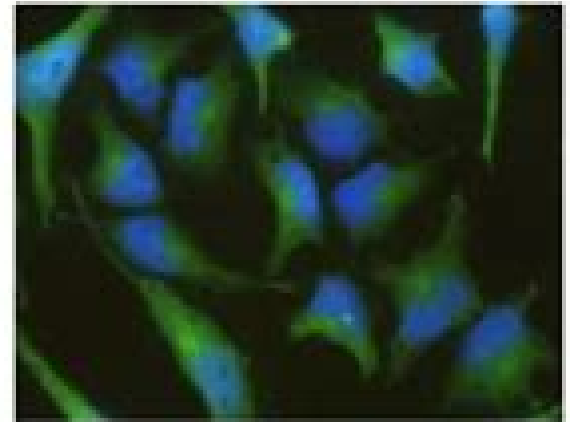
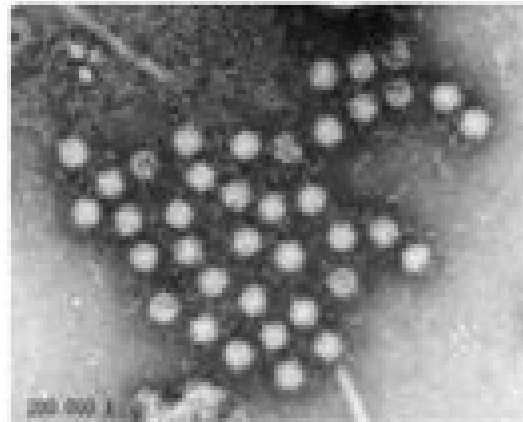


Diagnostic Methods in Virology



Mgr. Luděk Eyer, Ph.D.

Veterinary Research Institute, Brno

Department of Virology

Emerging Viral Diseases

Methods In Virology Vol V

N Colangelo



Methods In Virology Vol V:

Methods in Virology Karl Maramorosch, Hilary Koprowski, 2014-06-28 Methods in Virology Volume VII focuses on the methods used in virology including radioimmunoassays microscopy hybridization and mutagenesis The selection first elaborates on monoclonal antibody techniques applied to viruses competition radioimmunoassays for characterization of antibody reactions to viral antigens and enzyme immunosorbent assays in plant virology Discussions focus on the principles of enzyme immunosorbent assay choice of enzyme and preparation of conjugate determination of immunoglobulin class and maintenance and specificity testing of hybridomas The text then elaborates on electron microscopy for the identification of plant viruses in in vitro preparations and cloning and expression of viral antigens in Escherichia coli and other microorganisms including influenza virus expression of foreign coding sequences in Escherichia coli hepatitis B virus electron microscope immunoelectron microscopy and imaging of nucleic acids The manuscript takes a look at the detection and characterization of subgenomic RNA in plant viruses exploring the gene organization of baculoviruses and spot hybridization for detection of viroids and viruses Topics include application to viral diseases mapping mutations of baculoviruses transcriptional mapping of baculovirus genomes and genetic mapping by blot hybridization The selection is a valuable source of information for researchers interested in the methods employed in virology **Methods of Preparation**

for Electron Microscopy David G. Robinson, Ulrich Ehlers, Rainer Herken, Bernd Herrmann, Frank Mayer, Friedrich-Wilhelm Schürmann, 2012-12-06 In 1939 when the electron optics laboratory of Siemens Halske Inc began to manufacture the first electron microscopes the biological and medical professions had an unexpected instrument at their disposal which exceeded the resolution of the light microscope by more than a hundredfold The immediate and broad application of this new tool was complicated by the overwhelming problems inherent in specimen preparation for the investigation of cellular structures The microtechniques applied in light microscopy were no longer applicable since even the thinnest paraffin layers could not be penetrated by electrons Many competent biological and medical research workers expressed their anxiety that objects in high vacuum would be modified due to complete dehydration and the absorbed electron energy would eventually cause degradation to rudimentary carbon backbones It also seemed questionable as to whether it would be possible to prepare thin sections of approximately 0.5 μm from heterogeneous biological specimens Thus one was suddenly in possession of a completely unique instrument which when compared with the light microscope allowed a 10-100 fold higher resolution yet a suitable preparation methodology was lacking This sceptical attitude towards the application of electron microscopy in biology and medicine was supported simultaneously by the general opinion of colloid chemists who postulated that in the submicroscopic region of living structures no stable building blocks existed which could be revealed with this apparatus

The Biology of Animal Viruses Frank J. Fenner, B. R. McAuslan, C. A. Mims, 2013-09-17 The Biology of Animal Viruses Second Edition deals with animal viruses focusing on molecular biology and tumor virology The book reviews the nature

chemical composition structure and classification of animal viruses The text also describes the methods of isolating animal viruses how these are grown in the laboratory assayed purified and used in biochemical experiments The book also describes the structure and chemistry of many known viruses such as the papovaviridae herpes virus poxvirus coronavirus or the Bunyamwera supergroup The book then explains the structure and function of the animal cell including the cytoplasmic organelles the nucleus inhibitors of cell function and viral multiplication Other papers discuss in detail the multiplication of the DNA and RNA viruses whose mechanisms of multiplication differ from those of other viruses Other papers discuss the known prevention and treatment methods of viral diseases as well as the epidemiology and evolution of viral diseases resulting from human s disturbance of the biosphere and from medical and experimental innovations The text can prove useful for immunologists veterinarians virologists molecular researchers students and academicians in the field of cellular microbiology and virology

The Ribonucleic Acids P.R. Stewart,D.S. Letham,2012-12-06 The central role of the ribonucleic acids RNA in mediating the expression of information encoded in DNA in living cells is now well established Research in this area of biology continues at a remarkable rate and new and significant information appears almost daily in a wide range of journals published symposia and specialist reviews The diverse nature of this information makes it difficult for the newcomer to the field of RNA biochemistry to obtain a general view of established concepts current activity and new advances Moreover the reviews available are frequently concerned with insular aspects of these Ubiquitous molecules or in the case of text books the subject is treated as part of a general outline of proper ties of nucleic acids and thus may be superficial The authors of the chapters in this collection attempt to provide a comprehensive though not overly detailed outline of the biological roles of RNA They have written for students with basic training in biochemistry but otherwise with a wide variety of biological interests plant physiology virology organelle bio chemistry genetics cell biology differentiation and development Viral RNA which was dealt with as a separate chapter in the first edition has been deleted from this edition because it is an unman ageably large single topic and at the same time is addressed in a number of ways in many different places in the book

Immunology in Plant Science Trevor L. Wang,1986-07-31 Immunology is rapidly generating new insights into all areas of the plant sciences In this volume various disciplines in the plant sciences are brought together under the unifying theme of Immunology New applications of both antisera and monoclonal antibodies are presented in the context of recent research in the fields of plant physiology plant development and molecular biology Each chapter comprises a broad review written by an international scientist of the immunological aspects of current plant studies with a particular emphasis on techniques The presentation of these step by step techniques appended to each chapter will make this volume of practical interest to both the advanced undergraduate and research worker in plant biology

Chemistry of Viruses C.A. Knight,2012-12-06 In 1963 the first edition of Chemistry of Viruses was published as a contribution to the series on viruses sponsored by Protoplasmatologia An aim of the first edition was to review some major principles and techniques of chemical virology in a

concise manner and to accompany this review with a compilation of pertinent references It was anticipated that this exercise would be helpful to the author in his teaching and research and hopefully would be useful to readers as well The literature of virology has grown enormously since then and it is even more urgent to have a succinct survey In addition few authors have attempted to integrate the findings pertaining to the various major classes of viruses that is animal bacterial and plant viruses but rather have chosen to assemble large monographs dealing in depth with facts and fancies pertaining to specific groups of viruses Such works are valuable for pursuit of particular topics but fail to yield a brief integrated view of virology The present edition of *Chemistry of Viruses* aspires to such a review A serious attempt was made to deal concisely with every major topic of chemical virology and to present examples from different classes of viruses Numerous references are given to original articles and review papers as well as to selected books

World List of Serials in Agricultural Biotechnology Robert D. Warmbrodt, Diana Airozo, 1993

Viral Insecticides for Biological Control Karl Maramorosch, 2012-12-02

Viral Insecticides for Biological Control focuses on the basic as well as applied aspects of viral insecticides which have the potential to significantly reduce the current reliance on chemical pesticide technology This book serves as a guide for the development of means to identify hazardous problems and prevent them Organized into six parts with a total of 23 chapters this book describes the taxonomy nomenclature identification physical biological as well as chemical characteristics replication and pathology of insect viruses This reference material also explores the dispersal stability and utilization of insect viruses as biological control agents The factors and considerations that must be taken into account when a viral insecticide is sought as a large scale commercial alternative to other more traditional methods of pest control are also addressed Because this reference material collates information in this field of interest it will benefit a wide audience of readers including researchers students and those working directly in crop protection

The Adenoviruses Harold S. Ginsberg, 2013-03-08

The discovery of adenoviruses naturally induced a new interest in viruses of the human upper respiratory tract since previously unknown viruses infecting this portion of the human body had not been identified in 20 years and their unique characteristics stimulated investigations into the biochemical events essential for replication of animal viruses Indeed the field of molecular virology has evolved during the period since their discovery and adenoviruses have played a major role in this development The exciting discoveries made with adenoviruses have had such a profound effect on knowledge in basic virology molecular biology viral genetics human and animal infections and cell transformation that this seemed a propitious time to have some of the major contributors review this field This volume pays tribute to the late Wallace Rowe Robert Huebner and Maurice Hilleman whose initial discoveries of adenoviruses have tremendously enriched virology

Harold S Ginsberg vii Contents Chapter 1 An Overview 1 Harold S Ginsberg Chapter 2 The Architecture of Adenoviruses M V Nermut I Introduction 5 II Chemical and Physical Properties 6 III Virus Capsid Composition and Organization 7 A Hexon 10 B Penton 12 C Other Virus Polypeptides Associated with the Capsid 13 D Organization of the Capsid 14 IV Virus Core 15 A

Evidence for the Core Shell 17 B Organization of the DNA Protein Complex Nucleocapsid 18 C Tentative Model of the Adenovirus Nucleocapsid 22 V Model of the Adenovirion 29 32 References Molecular Biology of Adenoviruses L. Philipson, U. Pettersson, U. Lindberg, 2012-12-06 I Introduction In his biography Arrow in the Blue the author Arthur Koestler suggests ironically that the fate of an individual may be predicted by examining the content of the newspapers at birth Adenoviruses were discovered in 1953 ROWE et al 1953 HILLEMANN and WERNER 1954 At this time the Salk poliomyelitis vaccine was developed SALK et al 1954 and in the same year the discovery of the double helical structure of DNA WATSON and CRICK 1953 and the plaque assay for one animal virus DULBECCO and VOGT 1953 was announced Thus this new group of viruses was born with great hopes for progress in molecular biology and for the control of animal virus infections In the short interval between 1953 and 1956 the adenoviruses were discovered methods for laboratory diagnosis and serotyping were established the epidemiology was clarified and a highly effective vaccine was developed and approved for a review see HILLEMANN 1966 Succeeding years showed however that the vaccines were contaminated with the oncogenic SV 40 virus and that the adenoviruses themselves were tumorigenic Since the discovery of adenoviruses animal virology was developed into a quantitative science offering explanation for viral functions at the molecular level Precise biochemical tools to characterize the genome and its transcription products as well as the structural proteins of these viruses are now available

Current Topics in Microbiology and Immunology / Ergebnisse der Mikrobiologie und Immunitätsforschung W. Arber, R. Haas, W. Henle, P. H. Hofschneider, N. K. Jerne, P. Koldovsky, H. Koprowski, O. Maaløe, R. Rott, H. G. Schweiger, M. Sela, L. Syrupek, P. K. Vogt, E. Wecker, 2012-12-06 This volume is dedicated to the memory of the late Professor WERNER BRAUN one of the most devoted and active members of the Editorial Board of the Current Topics in Microbiology and Immunology who passed away after suffering a heart attack in November 1972 Dr WERNER BRAUN was born in Berlin Germany on November 16 1914 During his highschool days in Berlin he did research work on problems of genetics as a young guest in the Kaiser Wilhelm Institut für Biologie in the department of Prof R GOLDSCHMIDT I remember his colourful description of his discussions during this period while still a teenager with OTTO WARBURG He studied biology and medicine at the University of Göttingen and received a Ph D degree in biology in 1936 In the same year he left Nazi Germany and came to the United States first as a Guest Investigator in Genetics at the University of Michigan at Ann Arbor and then in Berkeley where he carried out his work in the Departments of Zoology and of Veterinary Science until 1948 He was engaged during this period in the study of problems concerned with physiological genetics bacterial variation immunology and biochemistry

Techniques in Somatic Cell Genetics Jerry W. Shay, 2013-11-21 Somatic cell genetics is an exciting and rapidly expanding field of research Since descriptions of the major experimental techniques in the field are scattered throughout various journals and other publications there is a real need for a single reference source for both established investigators and students in the field In addition technical reports are frequently abridged such that many researchers are discouraged

from attempting to adopt the appropriate methodology This book therefore describes in detail the many recent technical advances in such areas of somatic cell genetics as transfer mediated by liposomes erythrocyte ghosts chromosomes micro cells mito chondria and isolated nuclear DNA These techniques have increased our understanding of the organization and regulation of eukaryotic cells The production of antibiotic resistant cell lines and their use in studying cytoplasmic inheritance are also included Evidence for the cytoplasmic regulation of nuclear gene expression in eukaryotic cells is rapidly accumu lating following the characterization of cytoplasmic mutations The produc tion of nuclear coded mutations their use in standard cell hybridization and recent advances in techniques for fusing whole cells or cell components are also described

The Herpesviruses Albert Kaplan,1973-01-01 The Herpesviruses provides information pertinent to all the herpesviruses with emphasis on the classification morphology replication physical chemical properties and immunological relationships of all the herpesviruses This book presents the fundamental and clinical aspects of the viruses Organized into 21 chapters this book starts with an overview of the classification of the herpesvirus and proceeds to explore the origins and phylogeny of the herpesviruses This text then examines the earliest electron microscopic studies on the morphology of the herpesviruses by using shadowcast preparations of herpes simplex virus and of herpes zoster virus Other chapters consider the serological tests as well as the antigenic relationships among herpesviruses The final chapter deals with the clinical application of antiviral drug treatment This book is a valuable resource for virologists molecular biologists veterinarians physicians as well as teachers and graduate students who are interested in the herpesviruses from either a fundamental or clinical viewpoint

Diagnosis of Plant Virus Diseases R. E. F. Matthews,2019-07-23 Diagnosis of Plant Virus Diseases presents a comprehensive summary of methods currently available for the diagnosis of plant diseases caused by viruses and viroids Up to date literature references are provided brief accounts of the basis for particular methods are included and detailed protocols are presented Procedures discussed include the use of host plants electron microscopy of in vitro preparations serological procedures especially forms of ELISA monoclonal antibodies serological specific electron microscopy and immunoblotting and nucleic acid hybridization procedures Strategies are outlined for implicating virus like pathogens as causes of diseases of unknown etiology and problems involved in identifying complexes of transmission dependent and helper viruses are discussed The book will be extremely useful for phytopathologists plant virologists and research students and workers in plant virology laboratories and diagnostic plant pathology laboratories

Isoelectric Focusing: Theory, Methodology and Application Pier Giorgio Righetti,2000-04-01 This book deals with theoretical and practical developments of IEF and offers detailed methodology for many of the commonly used procedures such as IEF in gels It is intended both as a reference guide and a practical manual

The Plant Viruses R.G. Milne,2013-11-09 The original aim of this book was to cover different aspects of the tradi tionally filamentous potex carla poty clostero and capilloviruses The title The Filamentous Plant Viruses seemed the only suitable one but it has led us to discuss also the quite different filamentous

viruses of the rice stripe group recently officially named the tenuivirus group which otherwise indeed might not have been conveniently covered in any volume of this series The question must be asked What is there new that justifies the presentation of a book of this kind An outline of the answer may be Among the traditional filamentous viruses much progress has been made in elucidating the physical structure of potexvirus particles and this work serves as an excellent model for discussion of and future experiments on the poty carla clostero and capilloviruses which have comparable structures although they are more difficult to manipulate Work on the structure and strategy of the genomes of poty viruses is however relatively advanced and at a very interesting stage The helper component that assists the aphid transmission of potyviruses has also recently received considerable attention although the more we know about that the less seems clear about the aphid transmission of the carlaviruses and clostroviruses which apparently neither possess nor require a helper component

Ultrastructure Techniques for Microorganisms H.C. Aldrich, W.J. Todd, 2012-12-06 The modern microbiologist is often a real specialist who has difficulty understanding and applying many of the techniques beyond those in his or her own immediate field On the other hand most benefits to modern microbiology are obtained when a broad spectrum of scientific approaches can be focused on a problem In early studies electron microscopy was pivotal in understanding bacterial and viral morphology and we still feel that we will understand a disease better if we have seen an electron micrograph of the causative agent Today because there is an increased awareness of the need to understand the relationships between microbial structure and function the electron microscope is still one of the most important tools microbiologists can use for detailed analysis of microorganisms Often however the aforementioned modern microbiologist still thinks of ultrastructure as involving negative staining or ultrathin sectioning in order to get a look at the shape of a bug Many of the newer ultrastructure techniques such as gold labeled antibody localization freeze fracture X ray microanalysis enzyme localization and even scanning electron microscopy are poorly understood by and therefore forbidding to the average microbiologist Even many cell biologists admit to having difficulty staying in touch with current developments in the fast moving field of electron microscopy techniques

Methods in Cell Biology, 1975-07-25 *Methods in Cell Biology* Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1979 DNA Replication Herve Seligmann, 2011-08-01 The study of DNA advanced human knowledge in a way comparable to the major theories in physics surpassed only by discoveries such as fire or the number zero However it also created conceptual shortcuts beliefs and misunderstandings that obscure the natural phenomena hindering its better understanding The deep conviction that no human knowledge is perfect but only perfectible should function as a fair safeguard against scientific dogmatism and enable open discussion With this aim this book will offer to its readers 30 chapters on current trends in the field of DNA replication As several contributions in this book show the study of DNA will continue for a while to be a leading front of scientific activities

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