

Virology Journals List

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Lennette's Laboratory Diagnosis of Viral Infections, Fourth Edition

Virology

This detailed new edition provides a comprehensive collection of protocols applicable to all members of the Coronavirinae sub-family currently and that are also transferrable to other fields of virology. Beginning with a section on detection, discovery, and evolution, the volume continues with coverage of propagation and titration of coronaviruses, genome manipulation, study of virus-host interactions, as well as imaging coronavirus infections. 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, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Coronaviruses: Methods and Protocols, Second Edition* serves as a valuable guide to researchers working to identify and control viruses with increased potential to cross the species barrier and to develop the diagnostics, vaccines, and antiviral therapeutics that are required to manage future outbreaks in both humans and animals.

Plant Virology

To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have

been on the whole “diseases-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

The HIV-1 Envelope Glycoproteins

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

Textbook of Medical Virology

Fields Virology is the authoritative reference book for virology, providing definitive coverage of all aspects of virology, through coverage of virus biology as well as replication and medical aspects of specific virus families. With the regular outbreaks of influenza, noroviruses as well as emerging and re-emerging viruses it is essential to have the most up-to-date information available. With this Sixth Edition, all chapters have been completely updated, an important new emphasis has been placed on virus discovery and emerging viruses. Viruses associated with cancer, including the new human polyomaviruses, are highlighted in this Sixth Edition and new chapters have been added on circoviruses and mimiviruses. While the main focus of this edition continues to be on viruses, information on prions and the infectious spongiform encephalopathies are also included.

A Dictionary of Virology

A Nobel Prize-winning cancer biologist, leader of major scientific institutions, and scientific adviser to President Obama reflects on his remarkable career. A PhD candidate in English literature at Harvard University, Harold Varmus discovered he was drawn instead to medicine and eventually found himself at the forefront of cancer research at the University of California, San Francisco. In this “timely memoir of a remarkable career” (American Scientist), Varmus considers a life’s work that thus far includes not only the groundbreaking research that won him a Nobel Prize but also six years as the director of the National Institutes of Health; his current position as the president of the Memorial Sloan-Kettering Cancer Center; and his important, continuing work as scientific adviser to President Obama. From this truly unique perspective, Varmus shares his experiences from the trenches of politicized battlegrounds ranging from budget fights to stem cell research, global health to science publishing.

Fungal Virology

The seminal text Plant Virology is now in its fifth edition. It has been 10 years since the publication of the fourth edition, during which there has been an explosion of conceptual and factual advances. The fifth edition of Plant Virology updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation. Revamped art, along with fully updated references and increased focus on molecular biology, transgenic resistance, aphid transmission, and new, cutting-edge topics, bring the volume up to date and maintain its value as an essential reference for researchers and students in the field. Thumbnail sketches of each genera and family groups
Genome maps of all genera for which they are known
Genetic engineered resistance strategies for virus disease control
Latest understanding of virus interactions with plants, including gene silencing
Interactions between viruses and insect, fungal, and nematode vectors
Contains over 300 full-color illustrations

Human Cytomegaloviruses

Emerging and Reemerging Viral Pathogens: Applied Virology Approaches Related to Human, Animal and Environmental Pathogens, Volume Two presents new research information on viruses and their impact on the scientific community. It provides a reference book on certain viruses in humans, animals and vegetal, along with a comprehensive discussion on interspecies interactions. The book then looks at the drug, vaccine and bioinformatical strategies that can be used against these viruses, giving the reader a clear understanding of transmission. The book's end goal is to create awareness that the appearance of newly transmissible pathogens is a global risk that requires shared/adoptable policies for prevention and control. Covers most emerging viral disease in humans, animals and plants Provides the most advanced tools and techniques in molecular virology and the modeling of viruses Creates awareness that the appearance of new transmissible pathogens is a global risk Highlights the need to adopt shared policies for the prevention and control of infectious diseases

Virus Bioinformatics

Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter will describe the viral life cycle covering the order of classification, virion and genome structure, viral proteins, life cycle, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. Molecular Virology of Human Pathogenic Viruses provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease, and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature. Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

Fenner and White's Medical Virology

List of Journals Indexed in Index Medicus

This third edition of A Dictionary of Virology offers an authoritative, concise, and up-to-date list of all viruses affecting

vertebrate species, from humans to fish. It has been completely revised since the 1997 edition to include 25% more entries, including many completely new viruses. The entries have been restructured so that all viruses are listed and classified in accordance with the standards set by the 7th Report of the ICTV. The extensive cross-referencing and illustrative tables further enhance the utility of this reference.

Coronaviruses

Completely revised and updated to reflect important advances in the field, *Principles of Virology, Second Edition* continues to fill the gap between simple introductory texts and very advanced reviews of major virus families, introducing upper-level undergraduates, graduate students, and medical students to all aspects of virology. The second edition retains all of the defining and much-praised features of the first edition, focusing on concepts and principles and presenting a comprehensive treatment from molecular biology to pathogenesis and infection control. Written in an engagingly readable style and generously illustrated with over 400 full-color illustrations, this approachable volume offers detailed examples that illustrate common principles, specific strategies adopted by different viruses to ensure their reproduction, and the current state of virology research. The book is divided into chapters that focus on specific topics rather than individual viruses, and allows the student to visualize common themes that cut across virus families, emphasizing the shared features of different viruses. Drawing on the extensive teaching experience of each of its distinguished authors, *Principles of Virology* illustrates why and how animal viruses are studied and demonstrates, using well-studied systems, how the knowledge gained from such model viruses can be used to study viral systems about which our knowledge is still quite limited. A thorough introduction to principles of viral pathogenesis, a broad view of viral evolution, a discussion of how viruses were discovered, and how the discipline of virology came to be are also provided. A variety of special boxes highlight key experiments, background material, caveats, and much more. The text focuses on concepts and principles and covers not only aspects of molecular biology, but also pathogenesis, evolution, emergence, and control, and will also be a valuable resource for practicing physicians and scientists. New in the Second Edition

Completely revised pathogenesis chapters
Pathogenicity Snapshots: an appendix highlighting teaching points for major viral diseases
Expanded appendix on viral life cycles
New chapter on viral genomes and coding strategies
Detailed glossary
Expanded references after each chapter
new textboxes

Biochemistry

Containing material new to previous editions, including information on the application and results of gene manipulation techniques, this volume covers all aspects of plant virology from the molecular to the ecological.

Plant Virology

Viruses interact with host cells in ways that uniquely reveal a great deal about general aspects of molecular and cellular structure and function. Molecular and Cellular Biology of Viruses leads students on an exploration of viruses by supporting engaging and interactive learning. All the major classes of viruses are covered, with separate chapters for their replication and expression strategies, and chapters for mechanisms such as attachment that are independent of the virus genome type. Specific cases drawn from primary literature foster student engagement. End-of-chapter questions focus on analysis and interpretation with answers being given at the back of the book. Examples come from the most-studied and medically important viruses such as HIV, influenza, and poliovirus. Plant viruses and bacteriophages are also included. There are chapters on the overall effect of viral infection on the host cell. Coverage of the immune system is focused on the interplay between host defenses and viruses, with a separate chapter on medical applications such as anti-viral drugs and vaccine development. The final chapter is on virus diversity and evolution, incorporating contemporary insights from metagenomic research. Key selling feature: Readable but rigorous coverage of the molecular and cellular biology of viruses. Molecular mechanisms of all major groups, including plant viruses and bacteriophages, illustrated by example. Host-pathogen interactions at the cellular and molecular level emphasized throughout. Medical implications and consequences included. Quality illustrations available to instructors. Extensive questions and answers for each chapter.

Viral Nanotechnology

Encyclopedia of Virology

CD-ROM includes computer animated interactive exercises, guided explorations, and color images.

Fungal Virology

Since their discovery 25 years ago, fungal viruses have created a new field of study in mycology and virology. The purpose of this book is not only to serve as a useful reference work but also to provide reviews of the important advances which have taken place since the last books on fungal viruses appeared. An introductory chapter gives a critical overview of fungal virology in the context of virology as a whole and of recent developments in molecular biology. Specialist chapters follow, all written by experts who are currently active in fungal virus research and cover ongoing research areas.

Emerging and Reemerging Viral Pathogens

A profusely illustrated history of one of the hottest medical/biological sciences of all: virology – personalized in crediting the people who began the science concerned with invisible mysterious disease agents, and continuing to cite those who are still unraveling the nature of many of the most important pathogens of today.

The Foundations of Virology

Explores the hidden world of viruses, explaining how they profoundly affect human lives and updating the reader in current virus-related issues, such as the frenetic evolution of the HIV virus, which could pose greater dangers in the future. By the author of Parasite Rex.

Molecular Virology of Human Pathogenic Viruses

The need for a vaccine against HIV is obvious, but the development of an effective vaccine has met with frustrations. The HIV envelope glycoproteins, residing in the viral membrane, are the sole viral proteins exposed on the outside of virus particles and.

Human Virology

Gene Therapy for Viral Infections provides a comprehensive review of the broader field of nucleic acid and its use in treating viral infections. The text bridges the gap between basic science and important clinical applications of the technology, providing a systematic, integrated review of the advances in nucleic acid-based antiviral drugs and the potential advantages of new technologies over current treatment options. Coverage begins with the fundamentals, exploring varying topics, including harnessing RNAi to silence viral gene expression, antiviral gene editing, viral gene therapy vectors, and non-viral vectors. Subsequent sections include detailed coverage of the developing use of gene therapy for the treatment of specific infections, the principles of rational design of antivirals, and the hurdles that currently face the further advancement of gene therapy technology. Provides coverage of gene therapy for a variety of infections, including HBV, HCV, HIV, hemorrhagic fever viruses, and respiratory and other viral infections Bridges the gap between the basic science and the important medical applications of this technology Features a broad approach to the topic, including an essential overview and the applications of gene therapy, synthetic RNA, and other antiviral strategies that involve nucleic acid engineering Presents perspectives on the future use of nucleic acids as a novel class of antiviral drugs Arms the reader with the cutting-edge information needed to stay abreast of this developing field

Aquaculture Virology

Over 50% of known flaviviruses have been associated with human disease. The Flavivirus genus constitutes some of the most serious human pathogens including Japanese encephalitis, dengue and yellow fever. Flaviviruses are known for their complex life cycles and epidemic spread, and are considered a globally-emergent viral threat. Pathogenesis and Immunity, the second volume of The Flaviviruses, examines the processes by which the flaviviruses cause disease, the different cytopathic effects and the associated immunopathological responses produced in their hosts. * Comprehensive approach to the scientific disciplines needed to unravel the complexities of virus-host interactions. * New, detailed information on the pathogenesis and immunology of the Flavivirus family. * Describes the technologies that have contributed to our current knowledge about the Flaviviruses. * Identifies the major problems faced in attempting to further understand the virus-host interactions that result in disease. * An exhaustive compendium of current and past knowledge on the Flavivirus family

Principles of Virology

Issues for 1977-1979 include also Special List journals being indexed in cooperation with other institutions. Citations from these journals appear in other MEDLARS bibliographies and in MEDLING, but not in Index Medicus.

Clinical Virology Manual

The definitive clinical virology resource for physicians and clinical laboratory virologists The clinical virology field is rapidly evolving and, as a result, physicians and clinical laboratory virologists must have a reliable reference tool to aid in their ability to identify and diagnose viral infections to prevent future outbreaks. In this completely revised edition of the Clinical Virology Manual, Editor in Chief, Michael Loeffelholz, along with Section Editors, Richard Hodinka, Benjamin Pinsky, and Stephen Young, have compiled expert perspectives of a renowned team of clinical virology experts and divided these contributions into three sections to provide the latest information on the diagnosis of viral infections, including ebola, HIV and Human papillomavirus state of the art diagnostic technologies, including next-generation sequencing and nucleic acid amplification methods taxonomy of clinically important viruses such as polyomaviruses and zoonotic viruses This comprehensive reference also includes three appendices with vital information on reference virology laboratories at the Centers for Disease Control and Prevention, state and local public health laboratories, and international reference laboratories and laboratory systems. Additionally, a new section "Diagnostic Best Practices," which summarizes recommendations for diagnostic testing, and cites evidence-based guidelines, is included in each viral pathogens chapter. Clinical Virology Manual, Fifth Edition serves as a reference source to healthcare professionals and laboratorians in providing clinical and technical information regarding viral diseases and the diagnosis of viral infections.

List of Journals Indexed for MEDLINE

Written from the perspective of the diagnostician, this bestselling book is the definitive text on the laboratory diagnosis of human viral diseases. It contains a wealth of illustrations, tables, and algorithms to enhance your understanding of this ever-evolving field. The book is a ready reference for virologists, microbiologists, epidemiologists, laboratorians, and infectious disease specialists, and students.

The Flaviviruses: Pathogenesis and Immunity

Fenner and White's Medical Virology, Fifth Edition provides an integrated view of related sciences, from cell biology, to medical epidemiology and human social behavior. The perspective represented by this book, that of medical virology as an infectious disease science, is meant to provide a starting point, an anchor, for those who must relate the subject to clinical practice, public health practice, scholarly research, and other endeavors. The book presents detailed exposition on the properties of viruses, how viruses replicate, and how viruses cause disease. These chapters are then followed by an overview of the principles of diagnosis, epidemiology, and how virus infections can be controlled. The first section concludes with a discussion on emergence and attempts to predict the next major public health challenges. These form a guide for delving into the specific diseases of interest to the reader as described in Part II. This lucid and concise, yet comprehensive, text is admirably suited to the needs of not only advanced students of science and medicine, but also postgraduate students, teachers, and research workers in all areas of virology. Features updated and expanded coverage of pathogenesis and immunity Contains the latest laboratory diagnostic methods Provides insights into clinical features of human viral disease, vaccines, chemotherapy, epidemiology, and control

Comparative Virology

Covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria and insects this new ed. has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000. Includes information on avian flu, SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism.

EMBASE List of Journals Indexed

Zoonotic Viruses of Northern Eurasia: Taxonomy and Ecology provides a review of modern data of the taxonomy, distribution, and ecology of zoonotic viruses in the ecosystems of Northern Eurasia. With climate changes, increasing population density of arthropod vectors and vertebrate hosts, development of unused lands, transferences of viruses by birds, bats, infected humans, and animals, vectors allow virus populations to adapt to the new environment. This leads to the appearance of emerging or re-emerging infections. This book presents data about circulation and evolution of influenza

viruses, tick-borne encephalitis virus, West Nile virus, Crimean-Congo hemorrhagic fever virus, hantaviruses, Sindbis virus, California encephalitis group viruses and other pathogenic viruses as well as of novel viruses classified for the first time using next-generation sequence. Features summarized data about the circulation of approximately 80 viruses isolated in natural foci of Northern Eurasia Provides descriptions of the main ecosystems of Northern Eurasia in the context of the ecology of viruses with environmental factors Delineates the potential impact of climate change for the distribution of viruses Includes virus taxonomy, ecology, distribution and pathogenicity for humans and animals

ASM Style Manual for Journals and Books

The Art and Politics of Science

The practical need to partition the world of viruses into distinguishable, universally agreed upon entities is the ultimate justification for developing a virus classification system. Since 1971, the International Committee on Taxonomy of Viruses (ICTV) operating on behalf of the world community of virologists has taken on the task of developing a single, universal taxonomic scheme for all viruses infecting animals (vertebrate, invertebrates, and protozoa), plants (higher plants and algae), fungi, bacteria, and archaea. The current report builds on the accumulated taxonomic construction of the eight previous reports dating back to 1971 and records the proceedings of the Committee since publication of the last report in 2005. Representing the work of more than 500 virologists worldwide, this report is the authoritative reference for virus organization, distinction, and structure.

Fenner's Veterinary Virology

Virus bioinformatics is evolving and succeeding as an area of research in its own right, representing the interface of virology and computer science. Bioinformatic approaches to investigate viral infections and outbreaks have become central to virology research, and have been successfully used to detect, control, and treat infections of humans and animals. As part of the Third Annual Meeting of the European Virus Bioinformatics Center (EVBC), we have published this Special Issue on Virus Bioinformatics.

Applied Virology

With the significant medical role that human cytomegalovirus plays in human disease (from acute disease following primary infection, to chronic disease due to life-long viral persistence), the need to better understand human cytomegalovirus

biology and pathogenesis is needed. Human Cytomegaloviruses: Methods and Protocols is designed to be an inclusive document covering all of the techniques and approaches necessary to understand and study the pathobiology of human cytomegalovirus. Topics covered include the history of human cytomegaloviruses, techniques to culture and grow the virus in model cell types, the use of primary cells for the study of human cytomegalovirus pathogenesis, modern molecular techniques for assessing the biological consequences of viral infection, animal models for study of cytomegalovirus replication and numerous other topics of current interest. Written in the successful Methods in Molecular Biology series format, each chapter includes an introduction, list of necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Human Cytomegaloviruses: Methods and Protocols serves as a tool for basic scientists as well as clinical scientists with an interest in the basic fundamental aspects of viral gene expression and specific aspects of viral pathogenesis.

Molecular and Cellular Biology of Viruses

It has been ten years since the publication of the third edition of this seminal text on plant virology, during which there has been an explosion of conceptual and factual advances. The fourth edition updates and revises many details of the previous edition, while retaining the important older results that constitute the field's conceptual foundation. Key features of the fourth edition include: * Thumbnail sketches of each genera and family groups * Genome maps of all genera for which they are known * Genetic engineered resistance strategies for virus disease control * Latest understanding of virus interactions with plants, including gene silencing * Interactions between viruses and insect, fungal, and nematode vectors * New plate section containing over 50 full-color illustrations

Principles of Plant Virology

This is the second edition of a well received textbook which was originally published in 1993. The new edition includes major revisions in certain chapters, and integrates the interface between science and medicine more than it did previously. There is also more discussion on clinically important conditions. The bright, bold format, from the first edition has been kept, but has been given a more sophisticated and up-to-date look. Virology, perhaps more than any other discipline, plays an extremely important role in the advances of biomedical research. New discoveries are continually being made, and their subsequent application to the relief of suffering proceed at an ever-increasing pace. Virology is important not only in the study of infections and their treatment and prevention, but also in the unravelling of the most fundamental aspects of biology. This is because viruses have an intimate relationship with the basic machinery of their host cells. Thus, research on how viruses reproduce themselves and spread has given us many insights into the way in which the cells of our bodies function, leading in turn to a better understanding of the whole organism and of how infective diseases may be prevented

or cured. The speed of advance in this area has increased the difficulties encountered by students and teachers in absorbing and imparting important information as effectively as possible. It is important that the students are provided with enough information not just to pass examinations but also to provide a foundation of knowledge adequate for subsequent professional practice. It is equally important that this information is presented in an attractive assimilated manner. In this book Leslie Collier and John Oxford present a delightfully written account of basic and clinical virology that meets both of these requirements. Richly illustrated with around 130 line drawings and photographs, Human virology provides a complete review of this rapidly expanding field of biology for medical, dental, and microbiology students. Leslie Collier is a freelance medical editor and writer and was formerly Professor of Virology at the Royal London Hospital. John Oxford is the current holder of this position. Reviews of the first edition 'Collier and Oxford are to be congratulated on producing a textbook for undergraduates which is refreshing in its ability to make the subject interesting and clinically relevant in a format that is both easy and enjoyable to read.' British Journal of Hospital Medicine 'excellent student text which combines scholarship with easy to remember diagrams and memory aides.' Aslib Book Guide 'The book is very well illustrated and the only adjective for the many electronmicrographs is "superb".' J Med Microbiol 'It is a pleasure to recommend Human Virology as a textbook for basic clinical virology.' International Antiviral News

Matthews' Plant Virology

Fenner's Veterinary Virology, Fourth Edition, is the long awaited new edition of Veterinary Virology, 3e, which was published in 1999. Fully revised and updated by the new author team, part I presents the fundamental principles of virology related to animal infection and disease, and part II addresses the clinical features, pathogenesis, diagnosis, epidemiology and prevention of individual diseases. New to this Edition New author team - one main author to ensure that the book reads like an authored book but with the benefit of using experts to contribute to specific topics Text has been refocused - part I has been condensed and where appropriate incorporated into part II to make it more user friendly The number of figures have been increased and are now in full color Fully revised and updated to include the latest information in the field of veterinary virology Beautifully illustrated color figures throughout Organized and current information provided by an expert team of authors

Virus Taxonomy

Viral Nanotechnology presents an up-to-date overview of the rapidly developing field of viral nanotechnology in the areas of immunology, virology, microbiology, chemistry, physics, and mathematical modeling. Its chapters are by leading researchers and practitioners, making it both a comprehensive and indispensable resource for study and research. The field of viral nanotechnology is new and quickly expanding due to increasing demand of the applications already developed. The

editors identify viral nanotechnology as a significant science that concerns itself with how to use the molecular modules that the distinctly different science of molecular engineering only constructs. The current potential applications of viral technology are manifold, with opportunities to revolutionize practices in photonics, catalysis, electronics, energy, biomedicine, health care, and public health. This book emphasizes using viral nanotechnology to improve health. A special emphasis is placed upon using viral nanotechnology for developing vaccines. In addition, it documents viral nanotechnology's use as a powerful tool for developing drugs and genetic therapies. There is also great potential in its use as a means for diagnostics, including the development of diagnostic reagents and novel imaging technologies for detecting disease and infectious agents. Viral nanotechnology's rapid and exciting growth is due to the need for new tools in the prevention, diagnosis, and treatment of disease. The contributors to this volume approach each chapter with the hope that their research and practices will contribute to an improvement in health and life on an unprecedented scale in human history.

Gene Therapy for Viral Infections

Plant genetic engineering has revolutionized our ability to produce genetically improved plant varieties. A large portion of our major crops have undergone genetic improvement through the use of recombinant DNA techniques in which microorganisms play a vital role. The cross-kingdom transfer of genes to incorporate novel phenotypes into plants has utilized microbes at every step—from cloning and characterization of a gene to the production of a genetically engineered plant. This book covers the important aspects of Microbial Biotechnology in Agriculture and Aquaculture with an aim to improve crop yield.

A Planet of Viruses

Textbook of Medical Virology presents a critical review of general principles in the field of medical virology. It discusses the description and molecular structures of virus. It addresses the morphology and classifications of viruses. It also demonstrates the principal aspects of virus particle structure. Some of the topics covered in the book are the symmetrical arrangements of viruses; introduction to different families of animal viruses; biochemistry of virus particles; the immunological properties and biological activities of viral gene products; description of enzymatic activities of viruses; and haemagglutination, cell fusion, and haemolysis of viruses. The description and characteristics of viral antigens are covered. The identification and propagation of viruses in tissue and cell cultures are discussed. An in-depth analysis of the principles of virus replication is provided. A study of the morphogenesis of virions is also presented. A chapter is devoted to virus-induced changes of cell structures and functions. The book can provide useful information to virologists, microbiologists, students, and researchers.

Virology Methods Manual

The Virology Methods Manual is a comprehensive source of methods for the study, manipulation, and detection of viruses. Edited by Brian Mahy and Hillar Kangro, this work describes the most up-to-date, definitive techniques, provided by experts in each area, and presented with easy-to-use, step-by-step protocols. This new manual will satisfy the needs of virologists and all those working with viruses who need a practical guide to methods that work! Provides up-to-date techniques by experts worldwide Presents common, step-by-step protocols in an attractive, easy-to-use fashion Contains useful appendices including virus taxonomy, metabolic inhibitors, and Bio-safety in the virology laboratory

Zoonotic Viruses of Northern Eurasia

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.

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