

Encyclopedia Of Virology Vol 2

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Encyclopedia Of Virology Vol 2 [PDF] Principles of Virology, 4th Edition, 2 Vol set by S. Jane Flint, Lynn W. Enquist, Vincent R. Racaniello, Glenn F. Rall, Anna Marie Skalka Topics virus , viral , rna , dna , cells , proteins , protein , cell , cellular , viruses , virus particles , virus type , human immunodeficiency , viral dna , immunodeficiency virus , herpes simplex , viral proteins , rna polymerase , simplex virus , viral genome

Principles of Virology, 4th Edition, 2 Vol set by S. Jane ... The Encyclopedia of Virology is the largest single reference source of current virological knowledge. It is also the first to bring together all aspects of the subject for a wide variety of readers. It is also the first to bring together all aspects of the subject for a wide variety of readers.

Encyclopedia of Virology | ScienceDirect Description Encyclopedia of Virology, Third Edition continues its success as the largest single reference source of current research in virology. Unique in its use of concise "mini-review" articles, this praised work covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria and insects.

Encyclopedia of Virology, Fourth Edition, builds on the solid foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

Reference source of current virological knowledge. It is also the first to bring together all aspects of the subject for a wide variety of readers. Unique in its use of concise 'mini-review' articles, the mate rial covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria, and insects. More general articles focus on the effects of viruses on the immune system, the role of viruses in disease, oncology, gene therapy, and evolution, plus a wide range of related topics.

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

This volume contains 82 chapters that provide detail and understanding to the fields of human and medical virology. The first section describes general features of common human viruses with specialized chapters related to HIV/AIDS. The volume goes on to describe exotic virus infections, including one now eradicated virus (smallpox) and some now controlled by vaccination such as yellow fever. Concepts of medical virology are further developed with entries on viruses associated with oncogenesis and selections of interest to medical virology. The most comprehensive single-volume source providing an overview of virology issues related to human and medical applications Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help in preparation of lectures, writing reports, or drafting grant applications

This volume consists of 85 chapters that highlight recent advances in our knowledge of the viruses that infect plants and fungi. It begins with general topics in plant virology including movement of viruses in plants, the transmission of plant viruses by vectors, and the development of virus-resistant transgenic plants. The second section presents an overview of the properties of a selection of 20 well-studied plant viruses, 23 plant virus genera and a few larger groups of plant viruses. The third section, which is abundantly illustrated, highlights the most economically important virus diseases of cereals, legumes, vegetable crops, fruit trees and ornamentals. The last section describes the major groups of viruses that infect fungi. The most comprehensive single-volume source providing an overview of virology issues related to plant and fungi Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help in preparation of lectures, writing reports, or drafting grant applications

This volume contains 81 chapters that relate to veterinary and bacterial virology. The first section describes general features of farm and other animals of agricultural importance. The following three sections detail other animal viruses, avian viruses, and viruses affecting aquatic species such as fish and crustaceans. The Section five deals with viruses which infect bacteria. The most comprehensive single-volume source providing an overview of virology issues related to animal and bateria Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help in preparation of lectures, writing reports, or drafting grant applications

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

Principles of Virology, the leading virology textbook in use, is an extremely valuable and highly informative presentation of virology at the interface of modern cell biology and immunology. This text utilizes a uniquely rational approach by highlighting common principles and processes across all viruses. Using a set of representative viruses to illustrate the breadth of viral complexity, students are able to understand viral reproduction and pathogenesis and are equipped with the necessary tools for future encounters with new or understudied viruses. This fifth edition was updated to keep pace with the ever-changing field of virology. In addition to the beloved full-color illustrations, video interviews with leading scientists, movies, and links to exciting blogposts on relevant topics, this edition includes study questions and active learning puzzles in each chapter, as well as short descriptions regarding the key messages of references of special interest. Volume I, Molecular Biology focuses on the molecular processes of viral reproduction, from entry through release. Volume II, Pathogenesis and Control addresses the interplay between viruses and their host organisms, on both the micro- and macroscale, including chapters on public health, the immune response, vaccines and other antiviral strategies, viral evolution, and a brand new chapter on the therapeutic uses of viruses. These two volumes can be used for separate courses or together in a single course. Each includes a unique appendix, glossary, and links to internet resources. Principles of Virology, Fifth Edition, is ideal for teaching the strategies by which all viruses reproduce, spread within a host, and are maintained within populations. This edition carefully reflects the results of extensive vetting and feedback received from course instructors and students, making this renowned textbook even more appropriate for undergraduate and graduate courses in virology, microbiology, and infectious diseases.

Accompanying CD-ROM has same title as book.

The essential reference of clinical virology Virology is one of the most dynamic and rapidly changing fields of clinical medicine. For example, sequencing techniques from human specimens have identified numerous new members of several virus families, including new polyomaviruses, orthomyxoviruses, and bunyaviruses. Clinical Virology, Fourth Edition, has been extensively revised and updated to incorporate the latest developments and relevant research. Chapters written by internationally recognized experts cover novel viruses, pathogenesis, epidemiology, diagnosis, treatment, and prevention, organized into two major sections: Section 1 provides information regarding broad topics in virology, including immune responses, vaccinology, laboratory diagnosis, principles of antiviral therapy, and detailed considerations of important organ system manifestations and syndromes caused by viral infections. Section 2 provides overviews of specific etiologic agents and discusses their biology, epidemiology, pathogenesis of disease causation, clinical manifestations, laboratory diagnosis, and management. Clinical Virology provides the critical information scientists and health care professionals require about all aspects of this rapidly evolving field.

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