

Textbook Of Human Virology

Textbook of Influenza
Textbook of Medical Virology
Human Virology
Principles of Virology, Volume 1
Virology Encyclopedia of Virology
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Principles of Molecular Virology
Medical Virology
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A Practical Guide to Clinical Virology
Fundamentals of Molecular Virology, 2nd Edition
Essential Human Virology
Textbook of Human Virology
Principles of Molecular Virology (Standard Edition)
Encyclopedia of Virology
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Virology E-Book
Molecular Virology of Human Pathogenic Viruses
Guide to Clinical and Diagnostic Virology
Human Virology
Principles and Practice of Clinical Virology
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Simian Virology
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Clinical Virology
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Textbook of Influenza

The renowned AIDS researcher Robert Gallo tells his story of scientific breakthrough in a riveting portrait of the people, the politics, and the pace of modern scientific discovery.

Textbook of Medical 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

Human Virology

"Based on the author's experiences teaching virology for more than 35 years, Virology: Molecular Biology and Pathogenesis enables readers to develop a deep understanding of fundamental virology by

emphasizing principles and discussing viruses in the context of virus families. Moreover, individual virus families are examined within the context of the Baltimore classification system, a key unifying theme that allows readers to assume basic facts about the replication strategy of a virus based on the nature of its genome."--BOOK JACKET.

Principles of Virology, Volume 1

In recent years, progress in the field of virology has advanced at an unprecedented rate. Issues such as AIDS have brought the subject firmly into the public domain and its study is no longer confined solely to specialist groups. 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. Unique in its use of concise 'mini-review' articles, the material 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. Drawing on the latest research, the editors have produced the definitive source for both specialist and general readers. Easy-to-use and meticulously organized, the Encyclopedia of Virology clarifies and illuminates one of the most complex areas of contemporary study. It will prove an invaluable addition to libraries, universities, medical and nursing schools, and research institutions around the world. The Second

Edition has been thoroughly updated with approximately 40 new articles. This edition includes more illustrations and color plates in each volume. Updated thoroughly with approximately 40 new articles Presents more illustrations than the first edition, with color plates in each volume Contains a complete subject index in each volume Provides further reading lists at the end of each entry, allowing easy access to the primary literature Extensive cross-referencing system links all related articles Contains the most recent information of particular viruses described at the 7th International Committee on Taxonomy and Classification of Viruses Provides the ability to search for entries alphabetically or via the taxonomical listings to access articles of different viruses

Virology

Virology is a clear and accessible introduction to this fast moving field, providing a comprehensive resource enabling students to understand the key concepts surrounding this exciting subject. The authors have produced a text that stimulates and encourages the student through the extensive use of clear, colour-coded diagrams. Taking a modern approach to the subject, the relevance of virology to everyday life is clearly emphasised and discussion on emerging viruses, cancer, vaccines, anti-viral drugs gene vectors and pesticides is included. This title: Provides an introduction to the theories behind the origins of viruses and how they are evolving with discussion on emerging viruses Includes numerous diagrams with

standard colour coding for different types of molecule such as DNA, messenger RNA, other virus RNA's proteins - all diagrams are carefully developed and clearly labelled to enhance student understanding Features self-contained descriptions of the complete replication cycles of a selection of viruses Introduces the relevance of virology to the modern world including the latest developments in the field - HIV, Foot and Mouth disease, Ebola, SARS and MMR Presents summary boxes, further reading and an associated website to include the latest developments Virology is an essential textbook for all undergraduate students of biology, microbiology and biomedical sciences taking courses in virology. It is also an invaluable resource for MSc level students who have previously done little or no virology and are looking for an accessible introduction to the subject.

Encyclopedia of Virology

Medical Virology first appeared in 1970 and was immediately hailed as a classic. The Fourth Edition has been completely updated, substantially rewritten, and considerably expanded. Acknowledging that today's students possess a more sophisticated background of molecular and cellular biology, the book is pitched a little higher than was the third edition. Nevertheless, it maintains the exceptionally high standards of the three previous editions, including the now famous user-friendly style. Hundreds of instructive diagrams and succinct tables smooth the path for the reader. Extensive lists of recent authoritative reviews at the end of each of the

36 chapters simplifies the reader's entry into the scientific literature. Throughout, the focus is on fundamental principles, mechanisms and basic facts, rather than on overwhelming detail. Part I of the book, expanded to over 400 pages, comprises in effect a self-contained overview of the Principles of Virology. Part II, entitled Viruses of Humans, deals comprehensively with all the families of human viruses. Extensive coverage is given to the molecular biology of the viruses and of viral replication, pathogenesis and immunity, clinical features of all important diseases caused by all viruses affecting humans, the latest laboratory diagnostic methods, epidemiology and control, including chemotherapy and vaccines. This lucid and concise yet comprehensive text is admirably suited to the needs not only of advanced students of science and medicine but also particularly of postgraduate students, teachers, and research workers in all areas of virology. Molecular biology of viruses and viral replication Pathogenesis and immunity Latest laboratory diagnostic methods Clinical features of human viral diseases Vaccines and chemotherapy Epidemiology and control

A Planet of Viruses

This valuable new book describes the molecular biology and pathogenesis of certain viruses linked with human cancers. It provides an up-to-date account of the progress in our knowledge of the virus/host interactions which lead to cancer, as well as insights on the complexity of virus/host

interactions in general, most of which have yet to be delineated. The volume also offers an historical perspective of cancer viruses as well as an examination of the geographical distribution and prevalence of cancers. Human Tumor Viruses is essential reading for researchers and graduate students in virology, cell biology, pathology, and oncology and for anyone engaged in cancer research.

Human Tumor Viruses

An Introduction to General Virology provides information pertinent to all aspects of virology. This book discusses the viruses affecting plants and insects. Organized into 25 chapters, this book begins with an overview of prevention of disease that can be effected by the immunization of susceptible hosts to produce circulating antibodies that neutralize viral infectivity. This text then discusses the general properties of the viruses. Other chapters consider the methods of preparing tissue cultures and explain the methods used for titrations of serum antibodies and serological identification of viruses. This book discusses as well the spread of diseases, the various invasion routes of the body, and the multitude of viruses which cause respiratory symptoms and which cannot easily be conquered. The final chapter deals with the types of vaccine in use. This book is a valuable resource for undergraduates in Medicine and Science and for postgraduates in the class of Public Health.

Fenner's Veterinary Virology

This Second Edition of *A Practical Guide to Clinical Virology* is a practical, highly illustrated, quick reference guide to clinical virology. It brings together the essentials of the subject in an entertaining and informative style, describing in turn the clinical features, the symptoms and signs of each of the viral diseases, as well as summarising the epidemiology, laboratory diagnosis and therapy in each case. This book also includes general chapters on classification, diagnosis of infection, antiviral drugs, vaccines and different clinical syndromes. Key Features: Chapter summaries for quick reference Cartoon illustrations Comprehensive coverage Clear and concise format Each chapter is easy to read and well organised, ensuring that this is an invaluable textbook for all medical, biomedical, microbiology and applied biology students. In addition, it provides an excellent reference for nurses, occupational health and infection control departments, public health and diagnostic laboratories.

Viruses and Human Disease

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

Viruses

Medical Virology

Viruses and Man: A History of Interactions

Designed for students learning about viruses for the first time at the undergraduate or graduate level, Fundamentals of Molecular Virology is presented in a style which relates to today's students and professors. This book is also a valuable, up-to-date source of information for graduate students, postdoctoral fellows and research scientists working with viruses. Chapters contributed by prominent virologists were edited to conform to a clear and accessible style. The text provides a thorough presentation of basic and contemporary concepts in virology for a student's first exposure to the field.

Medical Virology

An updated volume focusing on human virology and incorporating knowledge that has been gained in recent years, including contemporary information on the molecular biology of viruses.

An Introduction to General Virology

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

Human Papillomavirus

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.

Emerging and Reemerging Viral Pathogens

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

Principles of Molecular Virology

Practical text provides quick access to key diagnostic features of each virus encountered in clinical practice and their management.

Medical Virology

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.

Virology

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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.

Viruses

The Textbook of Influenza is a comprehensive resource covering all aspects of influenza, from the genetic and molecular biology of the virus through to clinical aspects of the disease and the latest drug developments and treatments. This new edition has been completely revised and reflects the integration of disciplines concerning the emergence, evolution, pathogenesis and control of influenza viruses in the field of human and veterinary public health. Textbook of Influenza examines the lessons learnt from the latest pandemic and provides the current state of knowledge for many yet unresolved issues related to virus origin, spread, pathogenesis and disease severity to better prepare for future pandemics. It covers the background to recent advances in influenza genomics and reverse genetics which have allowed the identification of virus virulence factors and the analysis and reconstruction of influenza viruses such as the 1918 Spanish flu strain. This new edition is divided into eight key sections, containing chapters co-written by international experts from both the clinical and scientific communities, covering:

- Influenza Perspectives
- Structure and Replication
- Evolution and Ecology
- Epidemiology and

Surveillance • Immunology • Vaccines and Vaccine Development • Clinical Aspects and Antivirals • Public Health Textbook of Influenza is for all those working in the area of influenza including clinical and basic scientists, immunologists, molecular and structural virologists, public health officials and global pandemic control planners.

Clinical and Diagnostic Virology

Principles of Molecular Virology, Third Edition provides an essential introduction to modern virology in a clear and concise manner. It is a highly enjoyable and readable text with numerous illustrations that enhance the reader's understanding of important principles. This edition has been updated and revised with new figures and text. New to the Third Edition: Viruses and Apoptosis (Chapter 6) Bacteriophages and Human Disease (Chapter 7) Learning objectives for each chapter Pronunciation section in Glossary and abbreviations section (Appendix 1) Key events in the history of virology (Appendix 3) Addition of colour in text and figures to enhance understanding of key points Also: Self assessment questions at the end of each chapter Classification of Subcellular Infectious agents Approx. 20% new material and completely revised throughout Over 120 figures

A Practical Guide to Clinical Virology

Completely rewritten, this edition has expanded coverage of zoonotic viruses and the diseases they cause, and viruses and viral diseases of laboratory

animals, poultry, fish, and wildlife. The concept of new emerging and reemerging viral diseases reflects the new perspective this concept has brought to veterinary and zoonotic virology and related fields. Part I presents fundamental principles of virology related to animal infection and disease. Part II details the properties and clinical features of the viruses that afflict animals and describes their treatment and control. Key Features * Comprehensive coverage of animal viruses, viral diseases, and viral zoonoses * Covers veterinary and zoonotic virology from the perspective of pathogenesis of viral infections, as well as from the perspective of disease prevention and control

Fundamentals of Molecular Virology, 2nd Edition

Simian Virology is the first text to comprehensively cover all currently known simian viruses. Chapters provide an overview of nonhuman primate models of medically important viral diseases as well as natural infections of nonhuman primates with human and animal viruses. The text covers a variety of topics including primate models of medically important viral diseases such as AIDS, hypotheses on the origins of epidemic forms of HIV, and viral diseases caused by non-simian viruses in both wild and captive primates.

Essential Human Virology

Milton Taylor, Indiana University, offers an easy-to-read and fascinating text describing the impact of

viruses on human society. The book starts with an analysis of the profound effect that viral epidemics had on world history resulting in demographic upheavals by destroying total populations. It also provides a brief history of virology and immunology. Furthermore, the use of viruses for the treatment of cancer (viral oncolysis or virotherapy) and bacterial diseases (phage therapy) and as vectors in gene therapy is discussed in detail. Several chapters focus on viral diseases such as smallpox, influenza, polio, hepatitis and their control, as well as on HIV and AIDS and on some emerging viruses with an interesting story attached to their discovery or vaccine development. The book closes with a chapter on biological weapons. It will serve as an invaluable source of information for beginners in the field of virology as well as for experienced virologists, other academics, students, and readers without prior knowledge of virology or molecular biology.

Textbook of Human Virology

Human Papillomavirus: Proving and Using a Viral Cause for Cancer presents a steady and massive accumulation of evidence about the role of HPV and prevention of HPV-induced cancer, along with the role and personal commitment of many scientists of different backgrounds in establishing global relevance. This exercise involved years of personal commitment to proving or disproving an idea that aroused initial skepticism, and that still has difficult implications for some. It remains one of the big successes of medicine that exploited both established

medical science dating back to the nineteenth century and new molecular genetic science during a time of transition in medicine. Presents a comprehensive, up-to-date review of the role of HPV in cancer from those involved in its study Includes the way evidence on the role and utility of HPV based prevention has been accumulated over almost 40 years Gives a series of vignettes of individual scientists involved in the development of the science of HPV and cancer at different stages and their experiences and reasons for involvement

Principles of Molecular Virology (Standard Edition)

Essential Human Virology is written for the undergraduate level with case studies integrated into each chapter. The structure and classification of viruses will be covered, as well as virus transmission and virus replication strategies based upon type of viral nucleic acid. Several chapters will focus on notable and recognizable viruses and the diseases caused by them, including influenza, HIV, hepatitis viruses, poliovirus, herpesviruses, and emerging and dangerous viruses. Additionally, how viruses cause disease, or pathogenesis, will be highlighted during the discussion of each virus family, and a chapter on the immune response to viruses will be included. Further, research laboratory assays and viral diagnosis assays will be discussed, as will vaccines, anti-viral drugs, gene therapy, and the beneficial uses of viruses. By focusing on general virology principles, current and future technologies, familiar human

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viruses, and the effects of these viruses on humans, this textbook will provide a solid foundation in virology while keeping the interest of undergraduate students. Focuses on the human diseases and cellular pathology that viruses cause Highlights current and cutting-edge technology and associated issues Presents real case studies and current news highlights in each chapter Features dynamic illustrations, chapter assessment questions, key terms, and summary of concepts, as well as an instructor website with lecture slides, test bank, and recommended activities

Encyclopedia of Virology

Human Polyomaviruses Molecular and Clinical perspectives Edited by Kamel Khalili and Gerald L. Stoner Our understanding of human polyomaviruses has evolved profoundly in the last fifteen years, creating an urgent need for an updated resource. Drs. Khalili and Stoner have collected the contributions of renowned researchers and clinicians in this cutting-edge volume. Human Polyomaviruses: Molecular and Clinical Perspectives presents in-depth analyses, comprehensive reviews, and timely assessments of recent discoveries and ongoing controversies focused on these important viral pathogens. Beginning with an historical perspective, this book covers up-to-date investigations into the molecular biology and pathogenesis of human polyomaviruses. All aspects of these persistent infections are subsequently covered, including clinical issues, from diagnosis to information on treatment and drug trials. Central topics are: BK

virus JC virus Simian virus 40 (SV40) and its potential as a human pathogen Progressive multifocal leukoencephalopathy (PML) This reference is a superb indoctrination for graduate students, medical students, high-level undergraduates, and anyone engaged in the study of DNA viruses and their molecular biology, evolution, transmission, and pathological potential.

Fenner and White's Medical 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.

Virology E-Book

Completely revised and updated, the new edition of this groundbreaking text integrates basic virology with pathophysiological conditions to examine the connection between virology and human disease. Most virology textbooks focus on the molecular biology involved without adequate reference to physiology. This text focuses on viruses that infect humans, domestic animals and vertebrates and is based on extensive course notes from James Strauss' virology class at the California Institute of Technology taught for over 30 years. Expertly depicting in color the molecular structure and replication of each virus,

it provides an excellent overview for students and professionals interested in viruses as agents of human disease. Includes over 30% new material - virtually all of the figures and tables have been redrawn to include the latest information and the text has been extensively rewritten to include the most up-to-date information Includes a new chapter on emerging and reemerging viral diseases such as avian flu, SARS, the spread of West Nile virus across America, and the continuing spread of Nipah virus in Southeast Asia Further reading sections at the end of each chapter make it easy find key references World maps depicting the current distribution of existing and newly emerging viruses are also incorporated into the text

Molecular Virology of Human Pathogenic Viruses

The knowledge and practice of clinical virology continues to expand. This new fifth edition has thirty-six comprehensive chapters, each of which has been extensively revised or rewritten, with the addition of new colour plates. This updated version takes into account knowledge accumulated in molecular biology with its applications for laboratory diagnosis, immunisation and antiviral chemotherapy. Each chapter highlights the clinical features and epidemiological patterns of infection. Similarly, in response to the global concern of the threat posed by new viruses, a new chapter on Emerging Infections is included. There is also new material on Hospital Acquired Infections, including some advice relating to

SARS, that will be of benefit to those dealing with the day-to-day management of patients in hospital.

Guide to Clinical and Diagnostic Virology

This is a concise, highly accessible introduction to medical virology, incorporating essential basic principles as well as a systematic review of viruses and viral diseases. It pays particular attention to developments in anti-viral therapy that are becoming increasingly effective in modern medicine. It is an ideal textbook for the information-overloaded student and an invaluable everyday companion for the busy professional who needs a good understanding of the current state of medical virology. In keeping with the highly successful format of other Illustrated Colour Texts, it presents the subject as a series of succinct 2 page 'learning units', using a superb collection of clear illustrations and clinical photographs, concise yet comprehensive text and key point boxes to aid quick access to information and examination preparation. So whether you are a medical student, junior doctor, medical scientist, trainee in infectious diseases or student on another allied medical course, this book is here to make your life easier! It will also provide a very solid foundation for any who plan to delve deeper into this fascinating field. Part of the popular Illustrated Colour Text series Information presented in double page spreads for easy learning Highly illustrated with both full colour graphics and clinical photographs Each spread includes a key point box for exam preparation

Human Virology

The fourth edition of the hugely successful Principles of Molecular Virology takes on a molecular approach, presenting the principles of virology in a clear and concise manner. This work explores and explains the fundamental aspects of virology, including structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. The self-assessment questions, glossary and abbreviations section provide excellent revision aids and serve as handy references to students, tutors and researchers alike. NEW TO FOURTH EDITION: * New material on virus structure and virus evolution * Updated pathogenesis section covering Ebola, SARS and HIV * New section on Bioterrorism * Fully updated references * New material on virus structure, virus evolution, zoonoses, bushmeat, SARS and bioterrorism

Principles and Practice of Clinical Virology

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.

A Dictionary of Virology

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

Simian Virology

Viruses: From Understanding to Investigation provides students with a map for lifetime learning by presenting the definition and unique characteristics of viruses, including major topics, such as the virus lifecycle, structure, taxonomy, evolution, history, host-virus interactions and methods to study viruses. In addition, the book assesses the connections between, and among, the aforementioned topics, providing an integrated approach and in-depth understanding of how viruses work. Employs a comparative strategy to emphasize unique structural and molecular characteristics that inform transmission, disease processes, vaccine strategies and host responses Presents a review of host cell and molecular biology and the immune system Features topical areas of research, including genomics in virus discovery, the virome, and beneficial interactions between viruses

and their hosts Includes text boxes throughout with experimental approaches used by virologists Covers learning objectives for each chapter, methods and advances, question sets, quizzes and a glossary

Virology

Human Virology is the perfect introduction to the subject for anyone who needs to understand the general principles of viral biology, how viruses impact on human health, and how they can be managed in a clinical context.

Virus Hunting

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.

Veterinary Virology

The extraordinary role of viruses in evolution and how this is revolutionising biology and medicine.

Clinical Virology

Viruses: Molecular Biology, Host Interactions, and Applications to Biotechnology provides an up-to-date introduction to human, animal and plant viruses within the context of recent advances in high-

throughput sequencing that have demonstrated that viruses are vastly greater and more diverse than previously recognized. It covers discoveries such as the Mimivirus and its virophage which have stimulated new discussions on the definition of viruses, their place in the current view, and their inherent and derived 'interactomics' as defined by the molecules and the processes by which virus gene products interact with themselves and their host's cellular gene products. Further, the book includes perspectives on basic aspects of virology, including the structure of viruses, the organization of their genomes, and basic strategies in replication and expression, emphasizing the diversity and versatility of viruses, how they cause disease and how their hosts react to such disease, and exploring developments in the field of host-microbe interactions in recent years. The book is likely to appeal, and be useful, to a wide audience that includes students, academics and researchers studying the molecular biology and applications of viruses Provides key insights into recent technological advances, including high-throughput sequencing Presents viruses not only as formidable foes, but also as entities that can be beneficial to their hosts and humankind that are helping to shape the tree of life Features exposition on the diversity and versatility of viruses, how they cause disease, and an exploration of virus-host interactions

Human Polyomaviruses

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.

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