

Fundamentals Of Medical Virology For Students Of Medicine And Related Sciences

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Textbook of Medical Virology - Erik Lycke
2014-06-28

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.

Principles of Virology - Jane Flint 2020-09-02
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.

Fundamentals of Medical Microbiology and Immunology - William W. Yotis, PhD 2021-12-27

- A comprehensive description of germane concepts and facts of medical microbiology and immunology
- High yield content that reinforces relevant principles and essential course information
- Attempts to answer what a medical student needs to know to pass a test in medical microbiology and immunology
- Provides a current, quick review of relevant information of medical microbiology and immunology
- Subject by subject exposure to fundamental information where you need it most

Basic Virology - Edward K. Wagner 2007-10-29

Ideal for the student seeking a solid understanding of the basic principles in this rapidly developing field, this best-selling text offers a comprehensive introduction to the fundamentals of virology. Featuring an enhanced art program now in full-color, the new edition has been updated throughout. New edition incorporates additional reading suggestions, expanded review questions, chapter outlines and full-colour artwork Contains new chapters dealing with viruses and cancer, generation and use of recombinant viruses and virus-like particles, viral evolution, network biology and viruses, and animal models and transgenics, as well as a chapter devoted to HIV and AIDS Downloadable artwork, original animations and online resources are available at www.blackwellpublishing.com/wagner

Fenner's Veterinary Virology - N. James Maclachlan 2010-11-26

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

Essentials of Microbiology - Surinder Kumar 2015-11-30

Essentials of Microbiology is an extensive guide to all aspects of microbiology covering immunology, bacteriology, virology, medical mycology, diagnostic medical microbiology, and many miscellaneous infections. Essentials of Microbiology is enhanced by over 200 images and illustrations and 181 tables. The final chapter on practical microbiology for MBBS students makes this book ideal for medical undergraduates.

Principles and Practice of Clinical Virology - Arie J. Zuckerman 2009-03-12

Principles and Practice of Clinical Virology is the bible for all working in the field of clinical virology - from the trainee to the expert because there's always something new to learn! As before, the book provides a detailed account of the diagnosis and treatment of virus infections, with a stronger emphasis on clinical expertise and management. Each chapter deals with a single virus or group of viruses and is written by leading international experts in the field. What's new in this edition ... Showcases the wealth of new knowledge acquired on virus infections and reflects the discovery of newly recognized emerging infections, the improvement or development of new vaccines, and an increasing repertoire of antiviral agents for treatment All chapters have been thoroughly revised and there are a number of new contributors, joining the cadre of internationally-recognized experts Includes a new chapter on vaccinology covering the principles relating to the development and use of vaccines generally, which complements the specific vaccines described in the other chapters The two chapters on nosocomial infections have been enlarged and will be particularly useful for those having to advise on the management of hospital-acquired infections Emphasizes the rapid accumulation of new information in such fields as retroviruses, particularly HIV, SARS, hepatitis C and influenza, including avian influenza

Fundamentals of Medical Virology - Louis S.

Kucera 1985-01-01

Principles and Practice of Clinical Virology - Arie J. Zuckerman 2004-08-13

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.

Principles of Molecular Virology - Alan J. Cann 2015-03-06

Principles of Molecular Virology, Sixth Edition, provides an easily accessible introduction to modern virology, presenting principles in a clear and concise manner. This fully updated edition explores and explains the fundamental aspects of virology, including the structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. In addition, this update reflects advances made in the field, including HIV pathogenesis, cryoelectron microscopy, bioinformatics, and RNA interference. Provides a conceptual approach to the principles of molecular virology, with important examples of new advances in virology Includes online resources for students and instructors New concepts in this edition include coverage of newly discovered and emergent viruses such as MERS and Ebola Presents new and updated information on bioinformatics and metagenomics Contains updated learning outcomes and further reading for each chapter

Fundamentals of Medical Virology Fundamentals of Medical Virology for Students of Medicine and Related Sciences - Quentin N. Myrvik 1985

Encyclopedia of Virology - 2020-10-01

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 Principles of Virology - S. Jane Flint 2004 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

[Principles of Virology, Multi-Volume](#) - Jane Flint
2020-10-06

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

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Current Catalog - National Library of Medicine (U.S.) 1983

First multi-year cumulation covers six years: 1965-70.

Virology - John Carter 2007-08-15

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.

Fenner and White's Medical Virology -

Christopher J. Burrell 2016-11-09

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

Principles of Virology, Volume 2 - S. Jane Flint
2020-11-03

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.

Principles of Molecular Virology (Standard Edition) - Alan J. Cann 2005-08-09

Principles of Molecular Virology, Fourth 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. New material on virus structure, virus evolution,

zoonoses, bushmeat, SARS and bioterrorism
National Library of Medicine Current Catalog -
National Library of Medicine (U.S.) 1971

Principles of Virology, Volume 1 - S. Jane Flint
2015-08-03

Principles of Virology is the leading virology textbook because it does more than collect and present facts about individual viruses. Instead, it facilitates an understanding of basic virology by examining the shared processes and capabilities of viruses. Using a set of representative viruses to present the complexity and diversity of a myriad of viruses, this rational approach enables students to understand how reproduction is accomplished by known viruses and provides the tools for future encounters with new or understudied viruses. This fully updated edition represents the rapidly changing field of virology. A major new feature is the inclusion of 26 video interviews with leading scientists who have made significant contributions to the field of virology. Applicable courses: undergraduate courses in virology and microbiology as well as graduate courses in virology and infectious diseases.

Medical Microbiology - Patrick R. Murray
2015-10-28

Turn to *Medical Microbiology*, 8th Edition for a thorough, clinically relevant understanding of microbes and their diseases. This succinct, easy-to-use text presents the fundamentals of microbiology and immunology in a clearly written, engaging manner-effectively preparing you for your courses, exams, and beyond. Coverage of basic principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology help you master the essentials. Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined. Clinical cases illustrate the epidemiology, diagnosis, and treatment of infectious diseases, reinforcing a clinical approach to learning. Full-color clinical photographs, images, and illustrations help you visualize the clinical presentations of infections. Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review. Additional images, 200 self-assessment questions, NEW animations, and

more. Student Consult eBook version included with purchase. This enhanced eBook experience includes access -- on a variety of devices -- to the complete text, videos, images, and references from the book. Thoroughly updated chapters include the latest information on the human microbiome and probiotics/prebiotics; including a new chapter on Human Microbiome In Health and Disease. NEW chapter summaries introduce each microbe chapter, including trigger words and links to the relevant chapter text (on e-book version on Student Consult), providing a concise introduction or convenient review for each topic. Online access to the complete text, additional images, 200 self-assessment questions, NEW animations, and more is available through Student Consult.

Veterinary Virology - Frederick A. Murphy
1999-10-27

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

Guide to Clinical and Diagnostic Virology -
Reeti Khare 2020-08-06

The explosion in clinical testing has been especially rapid in virology, where emerging viruses and growing numbers of viral infections are driving advances. The *Guide to Clinical and Diagnostic Virology* offers a digestible view of the breadth and depth of information related to clinical virology, providing a practical, working knowledge of the wide array of viruses that cause human disease. Introductory chapters cover the basics of clinical virology and laboratory diagnosis of infections, including virus structure, life cycle, transmission,

taxonomy, specimen types and handling, and a comparison of assays used for detection. Detailed sections on important topics include Viral pathogens and their clinical presentations Diagnostic assays and techniques, including culture-based, immunological, and molecular Prevention and management of viral infections, with guidance on biosafety, vaccines, and antiviral therapies The regulatory environment for laboratory testing, including regulatory requirements and assay performance and interpretation Critical concepts are carefully curated and concisely summarized and presented with detailed illustrations that aid comprehension, along with important highlights and helpful hints. These features, plus question sections that reinforce significant ideas and key concepts, make this an invaluable text for anyone looking for an accessible route through clinical and diagnostic virology. Laboratory technologists, medical students, infectious disease and microbiology fellows, pathology residents, researchers, and everyone involved with viruses in the clinical setting will find the Guide to Clinical and Diagnostic Virology an excellent text as well as companion to clinical virology references.

Medical Virology - David O White 2016-06-03
Medical Virology

Medical Virology 8 - Luis M. de la Maza
2013-11-11

No other area of biology has grown as fast and become as relevant over the last decade as virology. It is with no little amount of amazement, that the more we learn about fundamental biological questions and mechanisms of diseases, the more obvious it becomes that viruses permeate all facets of our lives. While on one hand viruses are known to cause acute and chronic, mild and fatal, focal and generalized diseases, on the other hand, they are used as tools for gaining an understanding of the structure and function of higher organisms, and as vehicles for carrying protective or curative therapies. The wide scope of approaches to different biological and medical virological questions was well represented by the speakers that participated in this year's Symposium. While the epidemic by the human immunodeficiency virus type 1 continues to spread without hope for much relief in sight,

intriguing questions and answers in the area of diagnostics, clinical manifestations and therapeutical approaches to viral infections are unveiled daily. Let us hope, that with the increasing awareness by our society of the role played by viruses, not only as causative agents of diseases, but also as models for better understanding basic biological principles, more efforts and resources are placed into their study. Luis M. de la Maza Irvine, California Ellena M. **Principles of Virology: Foundations** - S. Jane Flint 2009

Now in two conveniently sized volumes, Principles of Virology, 3rd Edition, is completely revised and updated to reflect important advances in the field. The textbook continues to fill the gap between introductory texts and advanced reviews of major virus families. These two volumes provide upper-level undergraduates, graduate students, and medical students with a state-of-the-art introduction to all aspects of virology. Written in an engaging style and generously illustrated with over 600 full-color illustrations, these accessible volumes offer detailed examples to illustrate common principles, specific strategies to ensure replication and propagation of viruses, and a crucial overview of the current state of research in virology. The two stand-alone volumes illustrate the strategies by which all viruses are propagated, how infections spread, and how they are maintained in populations. Volume I features the molecular processes that take place in an infected cell. Volume II offers a concise treatment of the interplay between viruses and their host organisms. Introduces new chapters that discuss principles of infection of hosts and populations as well as a basic introduction to the mathematics of viral growth

Principles of Molecular Virology - Alan Cann 1997

Principles of Molecular Virology, Second Edition, provides an essential introduction to modern virology. Focusing on a molecular approach, this text presents the principles of virology in a clear and concise manner that gives students of biology or medicine a broad, comprehensive understanding of the subject. The text explores and explains the fundamental aspects of virology including structure of virus particles and genomes, virus replication, control of gene

expression, virus pathogenesis (including AIDS), and detailed, up-to-date discussions of prion diseases. This new edition is expanded and has been completely revised and updated with many new figures and tables which complement the text. The summaries and new self-assessment questions at the end of each chapter provide excellent revision aids. Key Features * Structure of Virus Particles and Virus Genomes * Virus replication * Control of Gene Expression * Virus Pathogenesis (Including AIDS) * Detailed and up-to-date Discussion of Prion Diseases

Introduction to Virology - Paul Mahoney
2018-02-08

The study of viruses is known as virology. It focuses on the structure, evolution and behavior of viruses. Studying them is vital, as they cause various infectious diseases like dengue, yellow fever, smallpox, etc. The classification of viruses is done on the basis of the host that they infect, like fungal viruses, bacteriophages, animal viruses, etc. This book attempts to assist those with a goal of delving into the field of virology. Coherent flow of topics, student-friendly language and extensive use of examples make this textbook an invaluable source of knowledge.

Principles of Virology, Volume 1 - Jane Flint
2020-11-03

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,

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Fundamentals of Medical Virology for Students of Medicine and Related Sciences - Jean D. Acton 1974

Virology E-Book - Stephen N J Korsman
2012-08-17

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
Clinical Virology - Douglas D. Richman
2009-01-01

Informs scientists and health care professionals about all the medically relevant aspects of this rapidly evolving field. • Covers novel viruses, pathogenesis, epidemiology, diagnosis, treatment, and prevention. • Addresses infections and syndromes related to particular organ systems, as well as the fundamentals of modern medical virology. • Includes crucial information on immune responses and vaccinology, diagnostics, antivirals, and the nascent field of gene therapy. • Provides agent-specific chapters that detail the virology, epidemiology, pathogenesis, clinical manifestations, and prevention and treatment of important viral pathogens.

Fundamentals of Molecular Virology, 2nd Edition - Nicholas H. Acheson 2011-08-01

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 - D. E. White 1994-06-27

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

Fundamentals of Molecular Virology - Nicholas H. Acheson 2011-08-30

This new, fully revised second edition of *Fundamentals of Molecular Virology* is designed for university students learning about virology at the undergraduate or graduate level. Chapters cover most of the major virus families, emphasizing the unique features of each virus family. These chapters are designed to tell stories about the viruses covered, and include information on discovery, diseases and pathogenesis, virus structure, steps in viral replication, and interaction with cellular signaling pathways. This approach portrays the "personality" of each virus, helping students to learn the material and to build up their knowledge of virology, starting with smaller and simpler viruses and proceeding to more complex viruses.

Neuroviral Infections - Sunit K. Singh 2013

Neurovirology is an interdisciplinary field representing a melding of virology, clinical neuroscience, molecular pathogenesis,

diagnostic virology, molecular biology, and immunology. *Neuroviral Infections: General Principles and DNA Viruses* covers recent developments in the area of neuroviral infections and discusses their role in related fields such as immunology, cell biology, and molecular biology. It offers a complete discussion of the major neuroviral infections caused by DNA viruses, including information on emerging basic principles, neuroviral infections, and future challenges in virology.

Principles of Molecular Virology - Alan Cann
2005-07-26

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

Fundamentals of Medical Virology - Jean D. Acton 1974

Fundamentals of Medical Virology for Students of Medicine and Related Sciences [By] Jean D. Acton [And Others]. - Jean D. Acton 1974