

Fundamentals Of Medical Virology For Students Of Medicine And Related Sciences

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Basic Virology Edward K. Wagner 1999 With the vast developments in the virology field in the past three decades it is a challenge to keep abreast of new developments. While the specialist literature has grown at a rapid pace, books for students have not kept pace. As a result, the field has lacked a modern primer for some time. *Basic Virology* is for instructors everywhere who need an engaging and concise introduction to this challenging subject. For students, *Basic Virology* provides an accessible synthesis to those who need to master the fundamentals of virology. The basic concepts of molecular biology and immunology are carefully addressed and molecular detail increases as the book progresses. This unique organization will lend itself to many syllabi. Strong pedagogy makes this complex subject more comprehensible. Combined presentation of viral families and viral functions satisfies the needs of instructors with either approach. Reinforcement material – students will quickly achieve understanding of basic skills in molecular biology, and rudimentary aspects of immunology, pathology & disease.

Medical Books and Serials in Print, 1979 R. R. Bowker LLC 1979-05

Fundamentals of Medical Virology Louis S. Kucera 1985-01-01

Principles of Virology S. Jane Flint 2009 These volumes are 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. The third edition retains the essential organization and much-praised features of the first two editions. The two books focus on concepts and principles and together present a comprehensive treatment from molecular biology to pathogenesis and control of viral infections. 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--

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 and Practice of Travel Medicine Dr. Jane N. Zuckerman 2002-01-03 Disease knows no frontiers and almost any place in the world can be reached within 24-36 hours, less time than the incubation period of most infectious diseases. As one of today's healthcare professionals you are expected to prevent, identify and treat all infectious diseases irrespective of geographical and climatic limitations. To do this you must be well versed in the development of new and improved vaccines and the rapid advances in the development of the latest drugs and treatments. *Principles and Practice of Travel Medicine* provides up to the minute information on the prevention and treatment of travel-related ill health, as well as the effects travel can have on people. Written in a distinctive style, Zuckerman offers you not only the latest information, but also an interesting, thought provoking read. Your essential one-stop resource for travel medicine, includes: * Epidemiology and surveillance of infectious diseases * Malaria and other parasitic diseases * Aviation medicine and psychology * Altitude medicine * Illness in returning travellers * Vaccine preventable diseases * Children and travel

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.

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

Current Catalog National Library of Medicine (U.S.) 1992
First multi-year cumulation covers six years: 1965-70.

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

Principles of Molecular Virology Alan Cann 2012 The fifth edition of the highly successful Principles of Molecular Virology takes on a molecular approach to the explanation of virology, presenting basic in a clear, concise and student-friendly manner. This fully updated undergraduate text explores and explains the fundamental aspects of virology, including structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. A website with self-assessment questions and other resources aids in student understanding. Completely rewritten and updated Clear and easy to understand Examples covering important ideas in virology All new illustrations
Accompanying website with interactive resources and teaching material for instructors

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

Viral Infections of Humans Alfred S. Evans 2013-11-11
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
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 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
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 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.

UCSF General Catalog University of California, San Francisco 1979

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

Medical Virology Frank Fenner 1970 In concise, engagingly lucid prose, Fenner and White survey general virology, a complex and rapidly evolving field. Part I provides the principles of basic animal biology, and briefly examines the effects of viruses on cells, tissues, the whole organism, and groups of people. The second part of the book surveys the major families of human viruses, exploring the relationship between disease and the properties of its causative agent. Employing a clear and simple style the text renders complex problems comprehensible, accompanied by relevant high-quality diagrams and illustrations. The authors offer a synthesis of more controversial points of view on given topics, and each chapter is followed by a recapitulation summary. The book is both a balanced introductory textbook for students of this complicated subject, and an extensive reference for basic scientists, research diagnosticians, physicians and epidemiologists.

Veterinary Virology Frederick A. Murphy 1999 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

Bibliography of Kuru Daniel Carleton Gajdusek 1975 Over 1600 entries, generally to literature written between 1957-1974. Covers books, journal articles, and unpublished reports. Includes basic bibliography (arranged by authors) and supplements in related fields, i.e., social and physical anthropology, linguistics, and natural history. Author index.

National Library of Medicine Current Catalog National Library of Medicine (U.S.) 1971

Principles of Virology, Volume 2 S. Jane Flint 2015-08-18 *Principles of Virology* Fourth Edition *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 Virology David O White 2016-06-03 *Medical Virology*

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

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.

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office 1976

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

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.

Principles of Molecular Virology Alan J. Cann 2011-10-11 Principles of Molecular Virology, Fifth Edition, provides an introduction to modern virology. Viruses are submicroscopic, obligate intracellular parasites that are more diverse than all the bacterial, plant, and animal kingdoms combined. The book examines protein-protein, protein-nucleic acid, and protein-lipid interactions, which control the structure of virus particles; the ways in which viruses infect cells; how viruses replicate; and the effects of virus infection on host organisms. The book begins with a history of virology, tracing the development of knowledge and research on virology. The remaining seven chapters deal with the function and formation of virus particles; the structure and complexity of virus genomes; virus replication; gene expression; virus infections; the effects of virus infection on the body and the body's response to infection; and subviral agents, such as satellites, viroids, and prions. The text concludes with three appendices that feature a glossary and abbreviations; a classification of subcellular infectious agents; and an outline of the history of virology. Completely rewritten and updated Clear and easy to understand Examples covering important ideas in virology All new illustrations

Medical Virology U. Desselberger 1995 Like other biomedical sciences, medical virology has undergone a revolution of diagnostic and scientific approaches through the advent of molecular biological techniques. Developing and maintaining an appropriate mixture of classical and molecular techniques for viral analysis is one of the challenges of medical virology today, and this volume addresses these issues. Topics covered include a broad description of "classical" techniques in viral diagnosis, nucleic acid detection by extraction and hybridization, use of the polymerase chain reaction, the application of various molecular techniques to aspects of the epidemiology of virus infections, and the

principles and practical approaches to the analysis of viral evolution. The book will be of interest to students, researchers and professionals in medical virology, particularly hospital workers, microbiology, and molecular biology.

Fundamentals of Medical Virology for Students of Medicine and Related Sciences 1975

Human Virology Leslie Harold Collier 2006 Viruses are the smallest of organisms, yet given that they account for at least a third of presentations in the doctors clinic, they must be well understood by medical students and practitioners alike. Collier and Oxford's Human Virology presents this complex and rapidly evolving subject with notable clarity and topicality. The first part of the text deals with the general principles of virology, including the properties of viruses, replication and genetics, along with disease and resistance. This is followed by chapters dedicated to specific groups of viruses, then special syndromes associated with susceptible groups. The final part of the book is reserved for practical aspects of virology, including diagnosis, control measures and anti-viral therapies. The authors intent is not to turn their readers into virologists, but rather to provide them with enough knowledge of the nature of viruses and viral infections to serve as an essential foundation for clinical involvement with the subject. By providing a concise but comprehensive account of the fascinating subject of virology, this text is ideal for students of medicine, dentistry, microbiology, nursing and the biological sciences. This latest edition has been extensively updated and incorporates many new diagrams, accompanied by the introduction of full colour presentation. The importance of viruses has demanded a fresh appreciation in recent years, providing opportunity for this edition to include coverage of: - The emergence of SARS - Latest research in the study of prion diseases - An exploration of the debate regarding MMR versus single vaccination - Progress in the study and treatment of HIV/AIDS - Recent advances in diagnostic virology and antiviral therapy - Greater emphasis on the antiviral precautions required of healthcare professionals

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

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.

Neuroviral Infections Sunit K. Singh 2013-02-15

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.

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.

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.