

## Virology Journal Elsevier

Virus Structure covers the full spectrum of modern structural virology. Its goal is to describe the means for defining moderate to high resolution structures and the basic principles that have emerged from these studies. Among the topics covered are Hybrid Vigor, Structural Folds of Viral Proteins, Virus Particle Dynamics, Viral Genome Organization, Enveloped Viruses and Large Viruses. Covers viral assembly using heterologous expression systems and cell extracts Discusses molecular mechanisms in bacteriophage T7 procapsid assembly, maturation and DNA containment Includes information on structural studies on antibody/virus complexes

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

Otology and Neurotology provides guidance on the clinical and practical management of diseases of the ear and lateral skull base. It discusses the latest techniques and technologies that encompass the complex nature of the specialty. Topics important to the otologist and neurotologist, such as chronic ear disease, cochlear and brainstem implants, robotic surgery, and many others, are covered by experts in their fields. This book is an invaluable reference for residents, fellows, allied health professionals, comprehensive otolaryngologists, otologists, neurotologists, and skull base surgeons. Key Features: Applied anatomy and physiology of the ear and lateral skull base Evidence-based approach to diseases of the ear and lateral skull base Practical presentation of cutting-edge concepts in otology and neurotology The contributors to this volume are internationally recognized experts in otology, neurotology, and lateral skull base surgery.

Published since 1953, *Advances in Virus Research* covers a diverse range of in-depth reviews providing a valuable overview of the current field of virology. In 2004, the Institute for Scientific Information released figures showing that the series has an Impact Factor of 2.576, with a half-life of 7.1 years, placing it 11th in the highly competitive category of Virology. \* Edited by an experienced plant pathologist who has over 50 years experience in plant virus epidemiology \* Covers topics such as Evolutionary epidemiology of plant virus disease, The control of tropical plant virus diseases, and Control of plant virus diseases \* A valuable resource for students and researchers alike

Virology Division. International Union of Microbiological Societies.

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

The first edition of Equine Locomotion has established itself as the book in the equine literature that discusses all aspects of equine locomotion and gait analysis, written by an international team of editors and contributors. The new edition continues this trend and gives the reader a complete picture of the horse in motion, at the same time including many recent findings in this area. The book begins with a history of man's association with the horse and then continues to discuss with comprehensive descriptions of the present state of knowledge beginning with the initiation of gait and ending with the more scientific area of computer modeling. In the new edition, the list of contributors continues to comprise of authors who are acknowledged experts in their subject areas and includes many new illustrations.

- international team of editors and contributors, with leading experts from the USA, the Netherlands, Sweden and France (all centres of excellence for the study of equine locomotion)
- editors are from two of the worlds leading locomotion centres – Utrecht and Michigan
- highly illustrated with nearly 500 detailed line drawings and illustrations
- covers all you will ever need to know about equine locomotion, gait analysis and much more
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Molecular Virology of Human Pathogenic Viruses Academic Press

Effectively merge basic science and clinical skills with Elsevier's Integrated Review of Immunology and Microbiology, by Jeffrey K. Actor, PhD. This concise, high-yield title in the popular Integrated Review Series focuses on the core knowledge in immunology and microbiology while linking that information to related concepts from other basic science disciplines. Case-based questions at the end of each chapter enable you to gauge your mastery of the material, and a color-coded format allows you to quickly find the specific guidance you need. . This concise and user-friendly reference provides crucial guidance for the early years of medical training and USMLE preparation. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Spend more time reviewing and less time searching thanks to an extremely focused, "high-yield" presentation. Gauge your mastery of the material and build confidence with case-based and USMLE-style questions that provide effective chapter review and quick practice for your exams. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Grasp and retain vital concepts more easily thanks to a color-coded format, succinct text, key concept boxes, and dynamic illustrations that facilitate learning in a highly visual approach. Effectively review for problem-based courses with the help of text boxes that help you clearly see the clinical relevance of the material.

This book provides overviews and updates on basic research, diagnosis, epidemiology, and public health on enteric viruses, as well as on treatment and intervention to prevent their waterborne transmission. Data are presented and interpreted by leading researchers in the field in 13 chapters. An essential resource for virologists, epidemiologists, medical and public health professionals, graduate students and postdoctoral scientists at various levels of their careers. Key Topics Include: \* Ecology of enteric viruses \* Intervention measures from risk assessment to virus disinfection practices \* Cutting edge technology on procedures for virus detection and monitoring in water and the water environment \* Quality assurance and quality control measures in water virology \* Legal regulations regarding viruses in the environment

Gene Therapy for Viral Infections provides a comprehensive review of the broader field of nucleic acid and its use in treating viral infections. The text bridges the gap between basic science and important clinical applications of the technology, providing a systematic, integrated review of the advances in nucleic acid-based antiviral drugs and the potential advantages of new technologies over current treatment options. Coverage begins with the fundamentals,

exploring varying topics, including harnessing RNAi to silence viral gene expression, antiviral gene editing, viral gene therapy vectors, and non-viral vectors. Subsequent sections include detailed coverage of the developing use of gene therapy for the treatment of specific infections, the principles of rational design of antivirals, and the hurdles that currently face the further advancement of gene therapy technology. Provides coverage of gene therapy for a variety of infections, including HBV, HCV, HIV, hemorrhagic fever viruses, and respiratory and other viral infections Bridges the gap between the basic science and the important medical applications of this technology Features a broad approach to the topic, including an essential overview and the applications of gene therapy, synthetic RNA, and other antiviral strategies that involve nucleic acid engineering Presents perspectives on the future use of nucleic acids as a novel class of antiviral drugs Arms the reader with the cutting-edge information needed to stay abreast of this developing field

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

Part I: Introduction to Universal Virus Taxonomy. Part II: The Viruses. A Glossary of Abbreviations and Terms. Taxa Listed by Nucleic Acid and Size of the Genome. The Virus Diagrams. The Virus Particle Structures. The Order of Presentation of the Viruses. The Double Stranded DNA Viruses. The Single Stranded DNA Viruses. The DNA and RNA Reverse Transcribing Viruses. The Double Stranded RNA Viruses. The Negative Sense Single Stranded RNA Viruses. The Positive Sense Single Stranded RNA Viruses. The Unassigned Viruses. The Subviral Agents. Viroids. Satellites. Vertebrate Prions. Fungal Prions. Part III: The International Committee on Taxonomy of Viruses. Officers and Members of the ICTV, 1999-2002. The Statutes of the ICTV, 1998. The Code of Virus Classification and Nomenclature, 1998. Part IV: Indexs. Virus Indexs. Taxonomic Index.

In consultation with Consulting Editor, Dr. Helen Boucher, Drs. Zumla and Hui have assembled an excellent clinical overview of the current priorities in treating emerging and re-emerging infections. A number of landmark events have occurred in the area of epidemic infections. The frequency and diversity of serious and drug/antibiotic-resistant infections

are increasing. New and re-emerging infectious disease outbreaks continue to cause much human suffering and loss of life worldwide. Current priority infectious diseases concerns that threaten global health security are covered in this issue: Cholera; Typhoid and antibiotic-resistant strains; multi—drug-resistant Tuberculosis; Invasive Meningococcal disease; Invasive Pneumococcal disease; antibiotic-resistant bacterial, viral, and protozoal infections; diphtheria; pandemic influenza; MERS; SARS; Measles; viral haemorrhagic fevers; wild-type Polio virus; Zika; antibiotic-resistant sexually transmitted diseases; drug-resistant Malaria; ARV-resistant HIV; and fungal infections. This issue's clinical review articles, written by authoritative and renowned experts in the area would, have broad appeal, from general internists to respiratory specialists. It should also prove interesting to infectious diseases specialists, health practitioners in the tropics, pulmonologists, internal medicine fellows, family physicians, and health-care policy makers in the west and developing countries. Medical students, postgraduates, and research fellows (both undergraduates and postgraduates) will also find this issue useful and to be a updated reference in the field of respiratory medicine, tropical medicine, and infectious diseases.

WHO Classification of Tumours of the Urinary System and Male Genital Organs is the eighth volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours. This authoritative, concise reference book provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical outcome. Diagnostic criteria, pathological features, and associated genetic alterations are described in a strictly disease-oriented manner. Sections on all recognized neoplasms and their variants include new ICD-O codes, epidemiology, clinical features, macroscopy, pathology, genetics, and prognosis and predictive factors. It contains numerous color photographs, MRIs, ultrasound images, CT scans, charts and references. Completely revised and updated, this respected reference offers comprehensive and current coverage of every aspect of vaccination—from development to use in reducing disease. It provides authoritative information on vaccine production, available preparations, efficacy, and safety...recommendations for vaccine use, with rationales...data on the impact of vaccination programs on morbidity and mortality...and more. And now, as an Expert Consult title, it includes a companion web site offering this unparalleled guidance where and when you need it most! Provides a complete understanding of each disease, including clinical characteristics, microbiology, pathogenesis, diagnosis, and treatment, as well an epidemiology and public health issues. Offers comprehensive coverage of both existing vaccines and vaccines currently in the research and development stage. Examines vaccine stability, immunogenicity, efficacy, duration of immunity, adverse events, indications, contraindications, precautions, administration with other vaccines, and disease control strategies. Analyses the cost-benefit and cost-effectiveness of vaccines. Discusses the proper use of immune globulins

and antitoxins. Illustrates concepts and objective data with approximately 600 tables and figures. Includes access to a companion web site offering the complete contents of the book - fully searchable - for rapid consultation from anyplace with an Internet connection.

Among unconventional agents and unclassified viruses the contributions to this volume focused on prion-related diseases, with special emphasis on bovine spongiform encephalopathy and human spongiform encephalopathies, and Borna disease virus, an agent known since long time to be pathogenic for horses and sheep, which is now discussed as a potential pathogen for humans. Additionally, the volume contains articles about newly discovered viruses like porcine respiratory and reproductive syndrome virus and viruses that are classified only provisionally like African swine fever virus, hepatitis C and E viruses, or the arteriviruses. To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole "diseases-centric and individual viral diseases selected based on "epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

Published since 1953, *Advances in Virus Research* covers a diverse range of in-depth reviews providing a valuable overview of the current field of virology. The impact factor for 2006 is 3.48 placing it 7th in the highly competitive category of virology. The practical need to partition the world of viruses into distinguishable, universally agreed upon entities is the ultimate justification for developing a virus classification system. Since 1971, the International Committee on Taxonomy of Viruses (ICTV) operating on behalf of the world community of virologists has taken on the task of developing a single, universal taxonomic scheme for all viruses infecting animals (vertebrate, invertebrates, and protozoa), plants (higher plants and algae), fungi, bacteria, and archaea. The current report builds on the accumulated taxonomic construction of the eight previous reports dating back to 1971 and records

the proceedings of the Committee since publication of the last report in 2005. Representing the work of more than 500 virologists worldwide, this report is the authoritative reference for virus organization, distinction, and structure.

This book provides a comprehensive overview of diagnostic imaging in infectious diseases. It starts with a general review of infectious diseases, including their classification, characteristics and epidemiology. In separate chapters, the authors then introduce the radionuclide imaging of 50 kinds of infectious diseases. Volume 1 covers 21 viral infections. Volume 2 has 29 chapters discussing 24 bacterial infections and 5 parasitic infections. Each disease is clearly illustrated using cases combined with high-quality computed tomography (CT) and magnetic resonance imaging (MRI). The book provides a valuable reference source for radiologists and doctors working in the area of infectious diseases.

Now in four convenient volumes, Field's Virology remains the most authoritative reference in this fast-changing field, providing definitive coverage of virology, including virus biology as well as replication and medical aspects of specific virus families. This volume of Field's Virology: Emerging Viruses, 7th Edition covers recent changes in emerging viruses, providing new or extensively revised chapters that reflect these advances in this dynamic field.

Green plants and photosynthetic organisms are the Earth's natural photoconverters of solar energy. In future, biomass and bioenergy will become increasingly significant energy sources, making a contribution both to carbon dioxide abatement and to the security, diversity and sustainability of global energy supplies. In this book, experts provide a series of authoritative chapters on the intricate mechanisms of photosynthesis and the potential for using and improving photosynthetic organisms, plants and trees to sequester carbon dioxide and to provide fuel and useful chemicals for the benefit of man. Contents: Photosynthesis and Photoconversion (J Barber & M D Archer) Light Absorption and Harvesting (A Holzwarth) Electron Transfer in Photosynthesis (W Leibl & P Mathis) Photosynthetic Carbon Assimilation (G E Edwards & D A Walker) Regulation of Photosynthesis in Higher Plants (D Godde & J F Bornman) The Role of Aquatic Photosynthesis in Solar Energy Conversion: A Geoevolutionary Perspective (P G Falkowski, R Geider & J A Raven) Useful Products from Algal Photosynthesis (R Martinez & Z Dubinsky) Hydrogen Production by Photosynthetic Microorganisms (V A Boichenko, E Greenbaum & M Seibert) Photoconversion and Energy Crops (M J Bullard) The Production of Biofuels by Thermal Chemical Processing of Biomass (A V Bridgwater & K Maniatis) Photosynthesis and the Global Carbon Cycle (D Schimel) Management of Terrestrial Vegetation to Mitigate Climate Change (R Tipper & R Carr) Biotechnology: Its Impact and Future Prospects (D J Murphy) Readership: Biologists, biochemists, plant scientists, environmentalists and ecologists. Written by experts in their field, Virus Structure and Assembly summarizes our current state of knowledge in the field of virus structure and assembly, comparing and contrasting the mechanisms adopted by viruses with a wide diversity of genome and host. It will serve as an invaluable reference for researchers in virology, microbiology, epidemiology, molecular biology, and public health. \* Witness to the remarkable advancement in the field of virus structure and assembly \* A unique opportunity to compare and contrast mechanisms adopted by a diverse range of viruses from bacteriophages and RNA viruses to Bluetongue, Influenza and Hepatitis B \* Numerous illustrations including color \* Discussion on the VIPER database, a repository for all high-resolution

structures of simple icosahedral viruses, and on application of mass spectrometry to the analysis of structures present in biological specimens, such as HIV-1

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.

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 Brought to you by the expert editor team from Principles and Practice of Infectious Diseases, this brand-new handbook provides a digestible summary of the 241 disease-oriented chapters contained within the parent text. Boasting an exceptionally templated design with relevant tables and illustrations, it distills the essential, up-to-date, practical information available in infectious disease. This high-yield manual-style reference will prove useful for a wide variety of practitioners looking for quick, practical, and current infectious disease information. Provides a digestible summary of the 241 disease-oriented chapters contained within Principles and Practice of Infectious Diseases, 8th Edition (ISBN: 978-1-4557-4801-3). Covers hot topics in infectious disease, such as Hepatitis B and C, Influenza, Measles, Papillomavirus, HIV, MERS, and C. difficile. Templated design includes relevant tables and illustrations. Ideal for the non-infectious disease specialist, including primary care physicians, physician assistants, nurse practitioners, students, residents, pharmacists, emergency physicians, and urgent care physicians.

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

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

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Gigantism and Acromegaly brings together pituitary experts, taking readers from bench research, to genetic analysis, clinical

analysis, and new therapeutic approaches. This book serves as a reference for growth hormone over-secretion and its diagnosis and treatment for endocrinologists, pediatricians, internists, and neurosurgeons, and for geneticists. Pharmaceutical companies may use it as a reference for drug development and research. Students, residents and fellows in medicine and endocrinology and genetics will also find it valuable as it provides a single up-to-date review of the molecular biology of gigantism and acromegaly as well as recommended approaches to evaluation and management. Acromegaly is a rare pituitary disorder that slowly changes its adult victim's appearance over time: larger hands and feet, bigger jaw, forehead, nose, and lips. Generally, a benign pituitary tumor is the cause and symptoms of acromegaly can vary from patient to patient, making a diagnosis difficult and prolonging suffering for years. Early detection is key in the management of acromegaly as the pathologic effects of increased growth hormone (GH) production are progressive and can be life-threatening as the result of associated cardiovascular, cerebrovascular, and respiratory disorders and malignancies. Accessible, up-to-date overview of the characteristics, state-of-the-art diagnostic procedures, and management of acromegaly and gigantism Provides a unique compendium of endocrinology, genetics, clinical diagnosis and therapeutics Contains contributions from internationally known experts who have treated patients with acromegaly and gigantism

Local Flaps in Facial Reconstruction brings you the detailed visual guidance and unmatched expertise you need to achieve the best results for the full range of facial flap procedures. Full-color clinical photographs and line drawings—along with high-quality surgical video clips—capture the latest facial reconstruction practices and effective methods like reconstruction of skin defects on the head and neck following tumor removal or trauma. Perspectives from facial plastic surgeons, dermatologists, ophthalmologists, and otolaryngologists help you take all of these considerations into account in treatment planning. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Make the most effective clinical decisions with a better understanding of the anatomy, physiology, and biomechanics of the skin Understand skin flap anatomy and physiology—vital to the performance of successful local flap reconstruction for facial defects. Implement the latest techniques with updated coverage of new wound closure techniques and materials (including glues and adhesives), scar revision, complications, and vascular abnormalities. Watch clips of key surgical procedures, including reconstructive surgery of the nose and lip. Avoid pitfalls and achieve the best outcomes thanks to a step-by-step approach to each procedure, complete with tips and tricks of the trade from leading experts. Minimize flap ischemia and other complications with proper preoperative planning and surgical techniques. Visualize what to look for and how to proceed with high-quality illustrations of rotation flaps, transposition flaps, advancement flaps, bilobe flaps, melolabial flaps, paramedian forehead flaps, and rhombic flaps. Access video clips at Expert Consult.

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

Small DNA tumor viruses are a fascinating group of double-stranded DNA viruses, made up of the polyomavirus, the adenovirus, and the papillomavirus families. These viruses continue to provide fundamental insights into mammalian cell transformation, cell cycle control, and tumor formation. The causal link between papillomaviruses and some human cancers is well known, and a role for polyomavirus in human cancer has recently been established. Adenoviruses do not cause cancer in humans, but, as well as providing excellent tools for the study of host cell processes, these viruses have been exploited as delivery vehicles in gene therapy for diseases, such as cystic fibrosis and cancer. A common feature of small DNA tumor viruses is their heavy reliance on the host for survival and replication. Understanding the virus-host relationship is critical to understanding the tumorigenic process and how these viruses subvert the host's immune system. In this timely book, leading scientists from around the world review current hot topics in this area, providing a fascinating overview of the molecular biology of these viruses and their interactions with the host. The topics covered include: HPV infections and the production of HPV virion stocks \* viral oncoproteins and their functions \* the replication and maintenance of viral genomes \* virus-induced alterations in cellular miRNAs \* viral deregulation of DNA damage responses \* the initiation of viral DNA replication \* induction of genomic instability by viral oncoproteins \* targeting of PML proteins and PML nuclear bodies by these viruses \* adenoviruses and gene therapy. The book will be essential reading for scientists and researchers working on small DNA tumor viruses and their associated diseases. It is also a recommended text for anyone involved with DNA replication, DNA damage responses and genome instability, virus-host interactions, and viral tumorigenesis or antiviral drug development.

The book "Methods in Silkworm Microbiology" is the first ever publication that provides in-depth reviews on the latest progresses about silkworm –pathogen interactions, diseases and management practices for sustainable development of sericulture. Different molecular and immunodiagnostic methods for the detection of pathogens have been comprehensively addressed. Most recent advancements on the role of Micro RNAs in silkworm and pathogen interactions are provided with suitable illustrations. Recent technological advances and emerging trends in exploring silkworm gut microbial communities towards translation research, particularly to understand microbiome functions have been highlighted. Information on various immune mechanisms of silkworm against invading pathogens is summarized. The book further highlights the silkworm gut microbiota as a potential source for biotechnological applications. Provide comprehensive reviews and valuable methods from the selected experts on the topic "Methods in silkworm microbiology/pathology" Provides latest information on application of genomics and transcriptomics to decipher silkworm gut microbial communities. Different molecular and immunodiagnostic methods for the detection of pathogens have been comprehensively addressed. Provides up to date information on silkworm-pathogen interactions, different silkworm

diseases and immune mechanisms

Encyclopedia of Virology, Third Edition continues its success as the largest single reference source of current research in virology. Unique in its use of concise "mini-review" articles, this praised work covers biological, molecular, and medical topics concerning viruses in animals, plants, bacteria and insects. Now in five volumes, this new edition has been extensively revised and updated to reflect the 50% increase in identified and accepted viruses since the year 2000. With over 25% new chapters and over 1000 illustrations, this edition takes into account the new developments in virology research by including information on new emerging diseases such as avian flu, SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism. Edited by leading Virologists Mahy and van Regenmortel, this third edition remains the number one all-inclusive source of information for virology researchers, students, and reference departments of academic, medical, and corporate libraries. Extensive coverage on AIDS and HIV, viral immunology and vaccines, the economic importance and control of virus diseases, and the origin, history, evolution and phylogeny of viruses -NEW! Four color throughout -NEW! Sections on future perspectives that show the direction of current research 25% NEW articles Glossary of key terms for easy referencing Information on viruses of human clinical interest, including the virus causing SARS -NEW! More than 20% NEW virus classifications The most recent information from the 8th International Committee on Taxonomy and Classification of Viruses -NEW! Recommendations for further reading and a list of other relevant entries

A unique international compilation of data on the location and use of filamentous fungi. It provides details of major culture collections holding fungi, access to these collections, patent restrictions, specialist services and international organizations. Global Virology, Volume III: Virology in the 21st Century examines work that has been undertaken, or is planned, in several fields of virology, in an effort to promote current and future work, research, and health. Fields and methods addressed include virology, immunology, space research, astrovirology/astrobiology, plasmids, swarm intelligence, bioinformatics, data-mining, machine learning, neural networks, critical equations, and advances in biohazard biocontainment. Novel and forward-looking methods, techniques, and approaches in research and development are presented by experts in the field.

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