Elsevier Virology Journal

This latest volume provides a comprehensive review of the latest developments and research studies on the pathogenesis and molecular biology of human congenital infections. It reviews current diagnostic techniques and epidemiological data while describing the progress in research and understanding of continuing prevention of congenital infections and prognosis.

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Transforming your STEM Career through Leadership and Innovation offers valuable information on what it means to be a leader and innovator and encourages you to discover and develop these skills for yourself. This book integrates leadership and innovation principles with personal examples and profiles of inspirational women. It is accompanied by a website that features women's leadership success stories, as well as innovation resources and best practices. This book is relevant for women in all stages of their careers and explains the critical need for leadership and innovation right now. By providing a clear process on how to build upon your personal strengths to realize leadership and innovation goals, this book will inspire you to pick up the mantle and meet the critical need for leadership and innovation in the STEM fields Examines research-based leadership and innovation principles to make these critically important characteristics both real and attainable Empowers you to build upon your own strengths and successes to discover and develop leadership and innovation skills Features a companion website that highlights women's leadership success stories, innovation resources and best practices Provides a practical guide that educates, encourages and equips you to pursue leadership and innovation opportunities Includes a companion website that highlights women's leadership success stories, innovation resources and best practices

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

Classification and Nomenclature of Viruses

Fenner and White's Medical Virology

Medical Microbiology

Virus Taxonomy

Virus Structure

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.

Known as "the bible" of herpetological medicine and surgery, Mader's Reptile and Amphibian Medicine and Surgery, 3rd Edition edited by Stephen Divers and Scott Stahl provides a complete veterinary reference for reptiles and amphibians, including specific sections on practice management and development; taxonomy, anatomy, physiology, behavior, stress and welfare; captive husbandry and management including nutrition, heating and lighting; infectious diseases and laboratory sciences; clinical techniques and procedures; sedation, anesthesia and analgesia; diagnostic imaging; endoscopy; medicine; surgery; therapy; differential diagnoses by clinical signs; specific disease/condition summaries; population health and public health; and legal topics. Well-organized and concise, this new edition covers just about everything related to reptiles and amphibians by utilizing an international array of contributing authors that were selected based on their recognized specialization and expertise, bringing a truly global perspective to this essential text!

Perfect for board review or quick reference in clinical practice, Comprehensive Review of Infectious Diseases is a balanced, high-yield resource covering the full range of infectious disease topics. Whether you're preparing for examinations or are looking for a concise resource to support your practice, this unique review contains precisely the information you need – from common infectious diseases concepts and conditions to hundreds of up-to-date review questions and answers for self-assessment and exam preparation. Covers the most frequently encountered concepts and conditions in infectious diseases. Covers challenging areas frequently covered on the boards: clinically-relevant microbiology and ID pharmacology, HIV and antiretroviral therapy, infections in immunocompromised hosts, dermatologic manifestations of ID, infection mimics, infection control and prevention, and more. Includes new and emerging topics such as neglected tropical diseases, bioterrorism, and emerging and re-emerging infections. Provides more than 550 case-based, board-style multiple-choice questions and answers for test prep and self-assessment. Facilitates quick review and maximum retention of information by including hundreds of high-quality illustrations, tables, high-yield boxes, and bulleted lists. Contains practical tips for taking the boards, buzzwords and memory aids for board questions, and clinical and board pearls. Edited and written by rising stars in the field of infectious diseases – authors who have recently taken the boards and excelled, and who understand the challenges posed by this complex field of study and practice.

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

Molecular to Global Photosynthesis

African Swine Fever

Emerging and Re-Emerging Infectious Diseases , An Issue of Infectious Disease Clinics of North America

Oxford Handbook of Clinical Specialties - Mini Edition

The first volume to cover the entire nidovirus order, including arteriviruses, toroviruses, roniviruses, and several recently identified human coronaviruses. Provides crucial information for researchers in virology, epidemiology, biochemistry, cell biology, pathogenesis, and antiviral drug development. Synthesizes the most recent research on the basic microbiology of nidoviruses, their genetic replication, and immune system responses. Addresses the impact of the recently developed systems for nidovirus reverse genetics, the unique mechanism of nidovirus RNA synthesis, virus-host cell interactions, emerging nidovirus infections, and potential targets for therapeutic interventions. Serves as essential reading for specialists and for those interested in viral replication and pathogenesis.

Covering the core clinical specialties, the Oxford Handbook of Clinical Specialties contains a comprehensive chapter on each of the clinical areas you will encounter through your medical school and Foundation Programme rotations. Now updated with the latest guidelines, and developed by a new and trusted author team who have contemporary experience of life on the wards, this unique resource presents the content in a concise and logical way, giving clear advice on clinical management and offering insight into holistic care. Packed full of high-quality illustrations, boxes, tables, and classifications, this handbook is ideal for use at direct point of care, whether on the ward or in the community, and for study and revision. Each chapter is easy to read and filled with digestible information, with features including ribbons to mark your most-used pages and mnemonics to help you memorize and retain key facts, while quotes from patients help the reader understand each problem better, enhancing the doctor/patient relationship. With reassuring and friendly advice throughout, this is the ultimate guide for every medical student and junior doctor for each clinical placement, and as a revision tool. This tenth edition of the Oxford Handbook of Clinical Specialties remains the perfect companion to the Oxford Handbook of Clinical Medicine, together encompassing the entire spectrum of clinical medicine and helping you to become the doctor you want to be.

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 Gemone 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

*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*

Gigantism and Acromegaly

Global Virology III: Virology in the 21st Century

Manson's Tropical Diseases E-Book

Guide for the Care and Use of Laboratory Animals

Eighth Edition

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.

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.

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

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

Rubella Viruses

Mims' Medical Microbiology E-Book

Transforming Your STEM Career Through Leadership and Innovation

Plant Virology

Handbook of Grape Processing By-Products

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.

From the difficult to diagnose to the difficult to treat, Manson ' s Tropical Diseases prepares you to effectively handle whatever your patients may have contracted. Featuring an internationally recognized editorial team, global contributors, and expert authors, this revised and updated medical reference book provides you with the latest coverage on parasitic and infectious diseases from around the world. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Incorporate the latest therapies into your practice, such as recently approved drugs and new treatment options. Find what you need easily and apply it quickly with highlighted key information, convenient boxes and tables, extensive cross-referencing, and clinical management diagrams. Make the most accurate Tropical Disease diagnoses through a completely redesigned and modernized format, which includes full-color images throughout. Apply the latest treatment strategies for HIV/AIDS, tropical neurology, malaria, and much more. Put the latest international expertise to work for you and your patients with new chapters covering Global Health; Global Health Governance and Tropical Diseases; Non-communicable Diseases; Obesity in the Tropics; and Emergency and Intensive Care Medicine in Resource-poor Settings. See which diseases are most prevalent in specific areas of the tropics through a new index of diseases by country, as well as online-only maps that provide additional detail. Better understand the variations in treatment approaches across the globe.

Use THE definitive reference for laboratory medicine and clinical pathology! Tietz Textbook of Laboratory Medicine, 7th Edition provides the guidance necessary to select, perform, and evaluate the results of new and established laboratory tests. Comprehensive coverage includes the latest advances in topics such as clinical chemistry, genetic metabolic disorders, molecular diagnostics, hematology and coagulation, clinical microbiology, transfusion medicine, and clinical immunology. From a team of expert contributors led by Nader Rifai, this reference includes access to wide-ranging online resources on Expert Consult — featuring the comprehensive product with fully searchable text, regular content updates, animations, podcasts, over 1300 clinical case studies, lecture series, and more. Authoritative, current content helps you perform tests in a cost-effective, timely, and efficient manner; provides expertise in managing clinical laboratory needs; and shows how to be responsive to an ever-changing environment. Current guidelines help you select, perform, and evaluate the results of new and established laboratory tests. Expert, internationally recognized chapter authors present guidelines representing different practices and points of view. Analytical criteria focus on the medical usefulness of laboratory procedures. Use of standard and international units of measure makes this text appropriate for any user, anywhere in the world. Expert Consult provides the entire text as a fully searchable eBook, and includes regular content updates, animations, podcasts, more than 1300 clinical case studies, over 2500 multiple-choice questions, a lecture series, and more. NEW! 19 additional chapters highlight various specialties throughout laboratory medicine. NEW! Updated, peer-reviewed content provides the most current information possible. NEW! The largest-ever compilation of clinical cases in laboratory medicine is included on Expert Consult. NEW! Over 100 adaptive learning courses on Expert Consult offer the opportunity for personalized education.

Comparative Plant Virology provides a complete overview of our current knowledge of plant viruses, including background information on plant viruses and up-to-date aspects of virus biology and control. It deals mainly with concepts rather than detail. The focus will be on plant viruses but due to the changing environment of how virology is taught, comparisons will be drawn with viruses of other kingdomes, animals, fungi and bacteria. It has been written for students of plant virology, plant pathology, virology and microbiology who have no previous knowledge of plant viruses or of virology in general. Boxes highlight important information such as virus definition and taxonomy Includes profiles of 32 plant viruses that feature extensively in the text Full color throughout

Computational Tools and Protocols

Equine Locomotion - E-Book

Creating a Culture of Accessibility in the Sciences

Inspiration and Strategies for Women

Encyclopedia of Virology

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 • 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

This essential volume explores a variety of tools and protocols of structure-based (homology modeling, molecular docking, molecular dynamics, protein-protein interaction network) and ligand-based (pharmacophore mapping, quantitative structure-activity relationships or QSARs) drug design for ranking and prioritization of candidate molecules in search of effective treatment strategy against coronaviruses. Beginning with an introductory section that discusses coronavirus interactions with humanity and COVID-19 in particular, the book then continues with sections on tools and methodologies, literature reports and case studies, as well as online tools and databases that can be used for computational anti-coronavirus drug research. Written for the Methods in Pharmacology and Toxicology series, chapters include the kind of practical detail and implementation advice that ensures high quality results in the lab. Comprehensive and timely, In Silico Modeling of Drugs Against Coronaviruses: Computational Tools and Protocols is an ideal reference for researchers working on the development of novel anti-coronavirus drugs for SARS-CoV-2 and for coronaviruses that will likely appear in the future.

Quickly learn the microbiology fundamentals you need to know with Medical Microbiology, 7th Edition, by Dr. Patrick R. Murray, Dr. Ken S. Rosenthal, and Dr. Michael A. Pfaller. Newly reorganized to correspond with integrated curricula and changing study habits, this practical and manageable text is clearly written and easy to use, presenting clinically relevant information about microbes and their diseases in a succinct and engaging manner. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Master the essentials of medical microbiology, including basic principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology. Progress logically through consistently formatted chapters that examine etiology, epidemiology, disease presentation, host defenses, identification, diagnosis, prevention, and control for each microbe. Grasp complex material quickly with summary tables and text boxes that emphasize essential concepts and issues. Learn the most up-to-date and relevant information in medical microbiology. Study efficiently thanks to a reorganized format that places review chapters at the beginning of each section and review questions at the end of each chapter. Focus on clinical relevance with new interactive case presentations to introduce each of the microbial pathogens that illustrate the epidemiology, diagnosis, and treatment of infectious diseases. Visualize the clinical presentations of infections with new and updated clinical photographs, images, and 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.

Protein Kinase Factsbook

In Silico Modeling of Drugs Against Coronaviruses

Mader's Reptile and Amphibian Medicine and Surgery- E-Book

Comprehensive Review of Infectious Diseases

Neurovirology

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 start 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 a 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 scienc 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

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 mast the essentials. Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance o 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 ar 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.

Encyclopedia of VirologyAcademic Press
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 experts in the field.
Virus Structure and Assembly
Textbook of Microbiology & Immunology
Nidoviruses
Principles of Molecular Virology
Comparative Plant Virology
The foremost text in this complex and fast-changing field, Medical Microbiology, 9th Edition, provides concise, up-to-date, and understandable explanations of key concepts in medical microbiology, immunology, and the microbes that cause human disease. Clear, engaging coverage of basic principles, immunology, laboratory diagnosis, bacteriology, virology, mycology, and parasitology help you master the essentials of microbiology?effectively preparing you for your coursework, exams, and beyond. Features significant new information on the human microbiome and its influence on the immune and other body systems, and new developments in microbial diagnosis, treatment, diseases, and pathogens. Updates every chapter with state-of-the-art information and current literature citations. Summarizes detailed information in tabular format rather than in lengthy text. Provides review questions at the end of each chapter that correlate basic science with clinical practice. Features clinical cases that illustrate the epidemiology, diagnosis, and treatment of infectious diseases. Introduces microbe chapters with summaries and trigger words for easy review. Highlights the text with clear, colorful figures, clinical photographs, and images that help you visualize the clinical presentation of infections. Offers additional study features online, including 200 self-assessment questions, microscopic images of the microbes, videos, and a new integrating chapter that provides hyperlinks between the microbes, the organ systems that they affect, and their diseases. Evolve Instructor site with an image and video collection is available to instructors through their Elsevier sales rep or via request at: https://evolve.elsevier.com.
Handbook of Grape Processing By-Products explores the alternatives of upgrading production by-products, also denoting their industrial potential, commercial applications and sustainable solutions in the field of grape valorization and sustainable management in the wine industry. Covering the 12 top trending topics of winery sustainable management, emphasis is given to the current advisable practices in the field, general valorization techniques of grape processing by-products (e.g. vermi-composting, pyrolysis, re-utilization for agricultural purposes etc.), the newly introduced biorefinery concept, different techniques for the separation, extraction, recovery and formulation of polyphenols, and finally, the healthy components of grape by-products that lead to target applications in the pharmaceutical, enological, food and cosmetic sectors. Presents in-depth information on grape processing Addresses the urgent need for sustainability within wineries Reveals the opportunities of reutilizing processing by-products in profitable ways Explores general valorization methods and separation and extraction methods for the recovery of high added-value extracts/compounds and their transformation to final products
This book provides an up-to-date information on microbial diseases which is an emerging health problem world over.This book presents a comprehensive coverage of basic and clinical microbiology, including immunology, bacteriology, virology, and mycology, in a clear and succinct manner.The text includes morphological features and identification of each organism along with the pathogenesis of diseases, clinical manifestations, diagnostic laboratory tests, treatment, and prevention and control of resulting infections along with most recent advances in the field. About the Author : - Subhash Chandra Parija, MD, PhD, DSc, FRCPath, is Director-Professor and Head, Department of Microbiology, Jawaharlal Institute of Postgraduate Medical Education and Research(JIPMER), Pondicherry, India. Professor Parija, author of more than 200 research publications and 5 textbooks, is the recipient of more than 20 National and International Awards including the most prestigious Dr BC Roy National Award of the Medical Council of India for his immense contribution in the field of Medical Microbiology.
Learn all the microbiology and basic immunology concepts you need to know for your courses and exams. Now fully revised and updated, Mims clinically relevant, systems-based approach and abundant colour illustrations make this complex subject easy to understand and remember. Learn about infections in the context of major body systems and understand why these are environments in which microbes can establish themselves, flourish, and give rise to pathologic changes. This systems-based approach to microbiology employs integrated and case-based teaching that places the bug parade into a clinical context. Effectively review for problem-based courses with the help of chapter introductions and Lessons in Microbiology text boxes that highlight the clinical relevance of the material, offer easy access to key concepts, and provide valuable review tools. Approach microbiology by body system or by pathogen through the accompanying electronic Pathogen Parade a quickly searchable, cross-referenced glossary of viruses, bacteria and fungi A new electronic Vaccine Parade offers quick-reference coverage of the most commonly used vaccines in current clinical practice Deepen your understanding of epidemiology and the important role it plays in providing evidence-based identification of key risk factors for disease and targets for preventative medicine. Grasp and retain vital concepts easily, with a user-friendly colour coded format, succinct text, key concept boxes, and dynamic illustrations. New and enhanced information reflects the growing importance of the human microbiota and latest molecular approaches Access the complete contents on the go via the accompanying interactive eBook, with a range of bonus materials to enhance learning and retention includes self-assessment materials and clinical cases to check your understanding and aid exam preparation.
Journal of Clinical Virology
Advances in Virus Research
Medical Microbiology E-Book
Sustainable Solutions
Applications of Artificial Intelligence in COVID-19
Creating a Culture of Accessibility in the Sciences provides insights and advice on integrating students with disabilities into the STEM fields. Each chapter features research and best practices that are interwoven with experiential narratives. The book is reflective of the diversity of STEM disciplines (life and physical sciences, engineering, and mathematics), and is also reflective of cross-disability perspectives (physical, sensory, learning, mental health, chronic medical and developmental disabilities). It is a useful resource for STEM faculty and university administrators working with students with disabilities, as well as STEM industry professionals interested in accommodating employees with disabilities. Offers a global perspective on making research or work spaces accessible for students with disabilities in the STEM fields Discusses best practices on accommodating and supporting students and demonstrates how these practices can be translated across disciplines Enhances faculty knowledge of inclusive teaching practices, adaptive equipment, accessibility features, and accommodations in science laboratories, which would enable the safe participation of students with disabilities Provides advice for students with disabilities on disclosure and mentoring
This volume in the Handbook of Clinical Neurology series provides a complete review of the history, science and current state of neurovirology. It covers the science and clinical presentation, diagnosis, and treatment of viruses of the brain and central nervous system, and is a trusted resource for scholars, scientists, neuroscientists, neurologists, virologists, and pharmacologists working

on neurovirology. Neurovirology has been significantly bolstered by modern technologies such as PCR and MRI with direct impact on isolating viruses and advancing therapeutics based on molecular medicine. These advances are particularly important today with the introduction of emerging and re-emerging diseases such as HIV/AIDS, Nipah encephalitis and the appearance of West Nile encephalitis in the western hemisphere. Detailed coverage of neurovirology from the basic science to clinical presentation Covers advances in neurovirology via polymerase chain reaction (PCR) and MRI technology Covers emerging and re-emerging diseases including HIV/AIDS, Nipah encephalitis, and the appearance of West Nile encephalitis in the western hemisphere

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

Virology Division. International Union of Microbiological Societies.

Tietz Textbook of Laboratory Medicine - E-Book

Classification and Nomenclature of Viruses : Ninth Report of the International Committee on Taxonomy of Viruses

Textbook of Pediatric Infectious Diseases