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Federal Register- 2012-08
Fungal Infections in Immunocompromised Hosts-Dimitrios P. Kontoyiannis 2019-04-02 In this unique supplement, we have compiled several state-of-the-art topics that are based on lectures delivered by eminent mycology experts during the 37th ICHS meeting. We hope that the esteemed audience of the Journal of Fungi will enjoy and appreciate the ever-evolving and complex field of fungal infections in vulnerable hosts. Interactions of Yeasts, Moulds, and Antifungal Agents-Gerri S. Hall 2011-12-02 The incidence of fungal infections increases with the increase in antibiotic usage and increasing immunosuppressed populations. There is no longer only one antifungal agent and the response of fungi to various agents is not always predictable. The need for standardized antifungal susceptibility testing, and standardized interpretation of results in conjunction with studies that describe clinical outcomes based on those tools is ever important. Interactions of Yeasts, Moulds, and Antifungal Agents: How to Detect Resistance covers the available antifungal agents, how to perform in vitro testing and how those results should be interpreted for the most common fungal pathogens. Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book-Richard A. McPherson 2011-09-06 Recognized as the definitive book in laboratory medicine since 1908, Henry's Clinical Diagnosis and Management by Laboratory Methods, edited by Richard A. McPherson, MD and Matthew R. Pincus, MD, PhD, is a comprehensive, multidisciplinary pathology reference that gives you state-of-the-art guidance on lab test selection and interpretation of results. Revisions throughout keep you current on the latest topics in the field, such as biochemical markers of bone metabolism, clinical enzymology, pharmacogenomics, and more! A user-friendly full-color layout puts all the latest, most essential knowledge at your fingertips. Update your understanding of the scientific foundation and clinical application of today's complete range of laboratory tests. Get optimal test results with guidance on error detection, correction, and prevention as well as cost-effective test selection. Reference the information you need quickly and easily thanks to a full-color layout, many new color illustrations and visual aids, and an organization by organ system. Master all the latest approaches in clinical laboratory medicine with new and updated coverage of: the chemical basis for analyte assays and common interferences; lipids and dyslipoproteinemia; markers in the blood for cardiac injury evaluation and related stroke disorders; coagulation testing for antiplatelet drugs such as aspirin and clopidogrel; biochemical markers of bone metabolism; clinical enzymology; hematology and transfusion medicine; medical microbiology; body fluid analysis; and many other rapidly evolving frontiers in the field. Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area. Apply the latest best practices in clinical laboratory management with special chapters on organization, work flow, quality control, interpretation of results, informatics, financial management, and establishing a molecular diagnostics laboratory. Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016. Canine and Feline Infectious Diseases - E-BOOK-Jane E. Sykes 2013-06-06 Canine and Feline Infectious Diseases is a practical, up-to-date resource covering the most important and cutting-edge advances in the field. Presented by a seasoned educator in a concise, highly visual format, this innovative guide keeps you current with the latest advances in this ever-changing field. 80 case studies illustrate the clinical relevance of the major infectious disease chapters. Well-organized Major Infectious Diseases chapters break down content by etiologic agent and epidemiology, clinical signs and their pathophysiology, physical examination findings, diagnosis, treatment and prognosis, immunity, prevention, and public health implications. Over 80 case studies illustrate how the information provided can be applied in everyday practice. Logical approach to laboratory diagnosis guides you through all the steps needed to accurately diagnose and treat viral, bacterial, fungal, protozoal, and algal diseases. Practical protocols provided by expert clinicians guide you in the management of canine and feline patients suspected to have infectious diseases, including handling, disinfection, isolation, and vaccination protocols. Over 500 full color images - geographic distribution maps, life cycle drawings, and hundreds of color photographs - visually illustrate and clarify complex issues. Easy-to-understand tables and boxes make content quickly accessible, eliminating the need to sort through dense text for critical information in the clinical setting.

Antimicrobial Drug Resistance-Douglas L. Mayers 2017-06-19 The two volumes included in Antimicrobial Drug Resistance, Second Edition is an updated, comprehensive and multidisciplinary reference covering the area of antimicrobial drug resistance in bacteria, fungi, viruses, and parasites from basic science, clinical, and epidemiological perspectives. This newly revised compendium reviews the most current research and development on drug resistance while still providing the information in the accessible format of the first edition. The first volume, Antimicrobial Drug Resistance: Mechanisms of Drug Resistance, is dedicated to the biological basis of drug resistance and effective avenues for drug development. With the emergence of more drug-resistant organisms, the approach to dealing with the drug resistance problem must include the research of different aspects of the mechanisms of bacterial resistance and the dissemination of resistance genes as well as research utilizing new genomic information. These approaches will permit the design of novel strategies to develop new antibiotics and preserve the effectiveness of those currently available. The second volume, Antimicrobial Drug Resistance: Clinical and Epidemiological Aspects, is devoted to the clinical aspects of drug resistance. Although there is evidence that restricted use of a specific antibiotic can be followed by a decrease in drug resistance to that agent, drug resistance control is not easily achieved. Thus, the infectious diseases physician requires input from the clinical microbiologist, antimicrobial stewardship personnel, and infection control specialist to make informed choices for the effective management of various strains of drug-resistant pathogens in individual patients. This 2-volume set is an important reference for students in microbiology, infectious diseases physicians, medical students, basic scientists, drug development researchers, microbiologists, epidemiologists, and public health practitioners.

Antimicrobial Therapy in Veterinary Medicine-Steeve Giguère 2013-07-25 The Fifth Edition of Antimicrobial Therapy in Veterinary Medicine, the most comprehensive reference available on veterinary antimicrobial drug use, has been thoroughly revised and updated to reflect the rapid advancements in the field of antimicrobial therapy. Encompassing all aspects of antimicrobial drug use in animals, the book provides detailed coverage of virtually all types of antimicrobials relevant to animal health. Now with a new chapter on antimicrobial therapy in zoo animals, Antimicrobial Therapy in Veterinary Medicine offers a wealth of invaluable information for appropriately prescribing antimicrobial therapies and shaping public policy. Divided into four sections covering general principles of antimicrobial therapy, classes of antimicrobial agents, special considerations, and antimicrobial drug use in multiple animal species, the text is enhanced by tables, diagrams, and photos.

Antimicrobial Therapy in Veterinary Medicine is an essential resource for anyone concerned with the appropriate use of antimicrobial drugs, including veterinary practitioners, students, public health veterinarians, and industry and research scientists.

Reference Method for Broth Dilution Antifungal Susceptibility Testing of Filamentous Fungi-John H. Rex 2008

Abstracts of the ... Interscience Conference on Antimicrobial Agents and Chemotherapy- 2005

Fundamental Medical Mycology-Errol Reiss 2011-11-16 Medical mycology deals with those infections in humans, and animals resulting from pathogenic fungi. As a separate discipline, the concepts, methods, diagnosis, and treatment of fungal diseases of humans are specific. Incorporating the very latest information concerning this area of vital interest to research and clinical microbiologists,Fundamental Medical Mycology balances clinical and laboratory knowledge to provide clinical laboratory scientists, medical students, interns, residents, and fellows with in-depth coverage of each fungal disease and its etiologic agents from both the laboratory and clinical perspective. Richly illustrated throughout, the book includes numerous case presentations.

Canadian Journal of Microbiology- 2006

Journal of Clinical Microbiology- 2004

Physicians' Desk Reference- 2009

Pharmacotherapy: A Pathophysiologic Approach, Eighth Edition-Joseph T. DiPiro 2011-04-04 "The most comprehensive, widely used, and evidence-based pharmacotherapy text available Hailed by Doody's Review Service as "one of the best in pharmacy" Pharmacotherapy: A Pathophysiologic Approach is unmatched in its ability to help students develop a mastery of evidence-based medicine for optimum patient outcomes. The eighth edition will feature the addition of SI units throughout and an increased number of global examples and clinical questions. Features Unparalleled guidance in the development of pharmaceutical care plans Full-color presentation Key Concepts in each chapter Critical Presentation boxes summarize common disease signs and symptoms Clinical Controversies boxes examin complicated issues you face when providing drug therapy NEW material added to the online learning center EXPANDED evidence-based recommendations EXPANDED coverage of timely issues such as palliative care and pain medicine Therapeutic recommendations in each disease-specific chapter"-Provided by publisher.

Emerging Infectious Diseases- 2009

Physicians' Desk Reference Supplement A-Thomson Healthcare 2007 PDR Supplement A publishes in June. Supplement B publishes in October. Sold Only as a set. (ISBN: 1-56363-600-X).

Yonsei Medical Journal- 2011

Reference Method for Broth Dilution Antifungal Susceptibility Testing of Yeasts- 2002

Descriptions of Medical Fungi-Sarah Kidd 2016-04-20 Descriptions of Medical Fungi. Third Edition. Sarah Kidd, Catriona Halliday, Helen Alexiou and David Ellis. 2016. This updated third edition which includes new references and revised descriptions. We have endeavoured to reconcile current morphological descriptions with more recent genetic data. More than 165 fungus species are described, including members of the Zygomycota, Hyphomycetes, Dimorphic Pathogens, Yeasts and Dermatophytes. 340 colour photographs. Antifungal Susceptibility Profiles. Microscopy Stains & Techniques. Specialised Culture Media. References. 250 pages.

Revista Brasileira de medicina- 2009

Clinical Mycology-William E. Dismukes 2003 Within the field of infectious diseases, medical mycology has experienced significant growth over the last decade. Invasive fungal infections have been increasing in many patient populations, including: those with AIDS; transplant recipients; and the elderly. As these populations grow, so does the diversity of fungal pathogens. Paralleling this development, there have been recent launches of several new antifungal drugs and therapies. Clinical Mycology offers a comprehensive review of this discipline. Organized by types of fungi, this volume covers microbiologic, epidemiologic and demographic aspects of fungal infections as well as diagnostic, clinical, therapeutic, and preventive approaches. Special patient populations are also detailed.

Oxford Textbook of Medical Mycology-Christopher C. Kibbler 2017-12-14 The Oxford Textbook of Medical Mycology is a comprehensive reference text which brings together the science and medicine of human fungal disease. Written by a leading group of international authors to bring a global expertise, it is divided into sections that deal with the principles of mycology, the organisms, a systems based approach to management, fungal disease in specific patient groups, diagnosis, and treatment. The detailed clinical chapters take account of recent international guidelines on the management of fungal disease. With chapters covering recent developments in taxonomy, fungal genetics and other 'omics', epidemiology, pathogenesis, and immunology, this textbook is well suited to aid both scientists and clinicians. The extensive illustrations, tables, and in-depth coverage of topics, including discussion of the non-infective aspects of allergic and toxin mediated fungal disease, are designed to aid the understanding of mechanisms and pathology, and extend the usual approach to fungal disease. This textbook is essential reading for microbiologists, research scientists, infectious diseases clinicians, respiratory physicians, and those managing immunocompromised patients. Part of the iOxford Textbook in Infectious Disease and Microbiology series, it is also a useful companion text for students and trainees looking to supplement mycology courses and microbiology training.

Introduction to Cell and Tissue Culture-Jennie P. Mather 2007-08-20 It is a pleasure to contribute the foreword to Introduction to Cell and Tissue Culture: The Ory and Techniques by Mather and Roberts. Despite the occasional appearance of thought ful works devoted to elementary or advanced cell culture methodology, a place remains for a comprehensive and definitive volume that can be used to advantage by both the novice and the expert in the field. In this book, Mather and Roberts present the relevant method ology within a conceptual framework of cell biology, genetics, nutrition, endocrinology, and physiology that renders technical cell culture information in a comprehensive, logical for mat. This allows topics to be presented with an emphasis on troubleshooting problems from a basis of understanding the underlying theory. The material is presented in a way that is adaptable to student use in formal courses; it also should be functional when used on a daily basis by professional cell culturists in a- demia and industry. The volume includes references to relevant Internet sites and other use ful sources of information. In addition to the fundamentals, attention is also given to mod ern applications and approaches to cell culture derivation, medium formulation, culture scale-up, and biotechnology, presented by scientists who are pioneers in these areas. With this volume, it should be possible to establish and maintain a cell culture laboratory devot ed to any of the many disciplines to which cell culture methodology is applicable.

Antibiotics in Laboratory Medicine-Daniel Amsterdam 2014-08-08 Antibiotics in Laboratory Medicine has been a mainstay resource for practitioners/providers, investigators, and pharmaceutical researchers of new anti-infective compounds for the past 30 years. This edition includes new chapters on the predictive value of in vitro laboratory testing and the improvement of patient care in the hospital environment through antimicrobial stewardship.

Antifungal Therapy-Mahmoud A. Ghannoum, PhD, EMBA 2016-04-19 A concise one-stop-practical reference for the various physicians dealing with fungal infections, Antifungal Therapy appeals to infectious disease physicians, transplant surgeons, dermatologists, and intensivists, as well as basic scientists and pharmaceutical company researchers interested in the state of antifungal therapy. This book provides a comprehensive, up-to-date overview of the pertinent issues pertaining to antifungal treatment. Divided into four interrelated sections for a cohesive discussion covers: history of antifungals from the discovery of the polyenes to the echinocandins antifungal susceptibility methods patient management animal models in drug development therapeutic strategies pharmacokinetic and pharmacogenomics trends in resistance

Bibliographic Guide to Computer Science- 1990

African Journal of Marine Science- 2006

Polymers against Microorganisms-Juan Rodríguez-Hernández 2016-11-25 This book provides an introductory and general overview of advances in polymers towards their employment as antimicrobial materials. The author describes current approaches for avoiding microbial contamination, toward macro-molecular antibiotics, and prevention of antibiotic-resistant bacteria by use of polymers. He establishes the remaining issues and analyzes existing methodologies for treating bacterial infections and for preparing antimicrobial materials.

Isolation, Identification and Characterization of Allelochemicals/ Natural Products-Diego A Sampietro 2009-01-07 Contents: Section I.

Reference Data for Engineers-Mac E. Van Valkenburg 2002 Reference Data for Engineers is the most respected, reliable, and indispensable reference tool for technical professionals around the globe. Written by professionals for professionals, this book is a complete reference for engineers, covering a broad range of topics. It is the combined effort of 96 engineers, scientists, educators, and other recognized specialists in the fields of electronics, radio, computer, and communications technology. By providing an abundance of information on essential, need-to-know topics without heavy emphasis on complicated mathematics, Reference Data for Engineers is an absolute "must-have" for every engineer who requires comprehensive electrical, electronics, and communications data at his or her fingertips. Featured in the Ninth Edition is updated coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. The Ninth Edition also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. * Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals, from technicians through post-graduate engineers. * Provides a great way to learn or review the basics of various technologies, with a minimum of tables, equations, and other heavy math.

14-helical Beta-peptides with Antifungal Activity Against Candida Albicans Planktonic Cells and Biofilms-Amy J. Karlsson 2009

Endocarditis-Kwan-Leung Chan 2016-03-08 This new addition will provide an update on the current prophylaxis guidelines, the new diagnostic approach in the detection of the disease, the proposed schemas to predict prognosis, and the new treatment strategies to improve the outcome of patients afflicted with this serious condition. Endocarditis is a serious disease with a high rate of morbidity and mortality. The in-hospital mortality remains at 10-20%. The poor outcome of patients with this condition is due in large part to the delay in making the diagnosis which frequently can be elusive. As a result of its wide spectrum of manifestations, endocarditis can mimic many different conditions ranging from stroke to renal failure. In order to minimize the delay in diagnosis, clinicians need to always be mindful of the possibility that endocarditis may be the cause of the symptoms. There have been ongoing efforts in the development of molecular probes and new imaging techniques to improve our ability to identify the disease early and reliably. New treatment strategies have been studied with the aim to prevent complications and to improve survival. The structure of the previous edition is preserved. The book is divided into three sections with the first section covering the historical perspective and basic principles, the second section dealing with the diagnosis and management approaches and the last section on specific clinical situations that pose management dilemmas. All the chapters will be updated to include new information from the recent studies. In particular, the approach to the use of antibiotic prophylaxis will be extensively revised to present and discuss the implications of the current guidelines from different national societies including the American Heart Association and the British Society for Antimicrobial Chemotherapy. This update is timely and should be of interest to all clinicians involved in the care of patients with this serious disease. This new edition will be a good resource for internists, infectious disease specialists, cardiologists and cardiac surgeons alike .

Proteases: Structure and Function-Klaudia Brix 2014-01-21 Proteolysis is an irreversible posttranslational modification affecting each and every protein from its biosynthesis to its degradation. Limited proteolysis regulates targeting and activity throughout the lifetime of proteins. Balancing proteolysis is therefore crucial for physiological homeostasis. Control mechanisms include proteolytic maturation of zymogens resulting in active proteases and the shut down of proteolysis by counteracting endogenous protease inhibitors. Beyond the protein level, proteolytic enzymes are involved in key decisions during development that determine life and death - from single cells to adult individuals. In particular, we are becoming aware of the subtle role that proteases play in signaling events within proteolysis networks, in which the enzymes act synergistically and form alliances in a web-like fashion. Proteases come in different flavors. At least five families of mechanistically distinct enzymes and even more inhibitor families are known to date, many family members are still to be studied in detail. We have learned a lot about the diversity of the about 600 proteases in the human genome and begin to understand their physiological roles in the degradome. However, there are still many open questions regarding their actions in pathophysiology. It is in this area where the development of small molecule inhibitors as therapeutic agents is extremely promising. Approaching proteolysis as the most important, irreversible post-translational protein modification essentially requires an integrated effort of complementary research disciplines. In fact, proteolytic enzymes seem as diverse as the scientists working with these intriguing proteins. This book reflects the efforts of many in this exciting field of research where team and network formations are essential to move ahead.

Research Methods in Public Administration and Nonprofit Management-David E. McNabb 2002 Designed for both students and practicing administrators, this text incorporates thinking in public administration and nonprofit organization management. Coverage includes such topics as research design, specifying research problems, designing questionnaires and analyzing research data. Spectroscopic Tricks-Leopold May 2012-12-06 Spectroscopic Tricks was introduced in 1959 as a special section in the journal Applied Spectroscopy. Its purpose was to provide a means for communicating information on new devices, modifica tions of existing apparatuses, and other items of this nature of interest to the working spectroscopist. That it has proved valuable is indicated by the continuing publication of this section now under the title of Spectroscopic Techniques. However, the use fulness of these contributions, scattered through the many issues of the journal, diminishes as time passes since the reader must consult the annual indices of many volumes of the journal to find the contri bution that may hold the solution to his problem. The collection of the contributions into a single volume for the years 1959 through 1965 made it easier for the reader to make this search. The success of the first volume has prompted the continuation of these collec tions. The contributions in this second volume are selected from the the years 1966 through 1969. They are arranged in the same manner as in the previous volume according to the area of spectroscopy. Those concerned with the same devices are placed together so that the reader can compare them readily. To maintain the advantages inherent in a single collection of articles, the subject index for this volume includes all the entries and page references from the original volume. Both author and journal indices are also provided, the latter citing the original Applied Spectroscopy edition.

Turkish Journal of Biology- 2006

Advances in Cross-Section Data Methods in Applied Economic Research-Nicholas Tsounis 2020-02-24 This proceedings volume presents new methods and applications in applied economics with special interest in advanced cross-section data estimation methodology. Featuring select contributions from the 2019 International Conference on Applied Economics (ICOAE 2019) held in Milan, Italy, this book explores areas such as applied macroeconomics, applied microeconomics, applied financial economics, applied international economics, applied agricultural economics, applied marketing and applied managerial economics. International Conference on Applied Economics (ICOAE) is an annual conference that started in 2008, designed to bring together economists from different fields of applied economic research, in order to share methods and ideas. Applied economics is a rapidly growing field of economics that combines economic theory with econometrics, to analyze economic problems of the real world, usually with economic policy interest. In addition, there is growing interest in the field of applied economics for cross-section data estimation methods, tests and techniques. This volume makes a contribution in the field of applied economic research by presenting the most current research. Featuring country specific studies, this book is of interest to academics, students, researchers, practitioners, and policy makers in applied economics, econometrics and economic policy.

Human Fungal Pathogen Identification-Thomas Lion 2016-10-08 This detailed volume presents timely and authoritative content offering a comprehensive overview of the current state of the art in fungal diagnostics. Moreover, it addresses on-going developments expected to provide a basis for targeted treatment strategies resulting in improved outcome of invasive mycoses. The knowledge of host-related predisposing factors and stratified treatment options facilitating timely onset of adequate antifungal therapy are critical for successful clinical management and outcome of invasive fungal disease (IFD), requiring not only rapid diagnosis of a fungal infection and identification of the causative species, but also assessment of pathogen/host factors related to pathogenicity, susceptibility, and response to treatment. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Human Fungal Pathogen Identification: Methods and Protocols serves as an ideal reference for researchers investigating the ever-growing worldwide healthcare problems involving fungal infections.

Antibiotics in Laboratory Medicine-Victor Lorian 2005 Implement the most current science and practice in antimicrobial research. Now, find the newest approaches for evaluating the activity, mechanisms of action, and bacterial resistance to antibiotics with this completely updated, landmark reference. Turn to this comprehensive reference for groundbreaking evidence on the molecular link between chemical disinfectants, sterilants, and antibiotics. On the latest methods for detecting antibacterial resistance genes in the clinical laboratory, and antivirogram use to select the most active antiviral components against your patient's HIV.

Lange's Handbook of Chemistry-John Aurie Dean 1992 This revised edition of 'Lange's Handbook of Chemistry' provides a vast compilation of facts, data, tabular material and experimental findings in every area of chemistry.

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