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## Textbook of Medical Mycology

*JP Medical Ltd* **Medical mycology refers to the study of fungi that produce disease in humans and other animals, and of the diseases they produce, their ecology, and their epidemiology. This new edition has been fully revised to provide microbiologists with the latest information on fungal infections, covering the entire spectrum of different types of infection, and therapeutic modalities. Beginning with a general overview explaining morphology, taxonomy, and diagnosis, the following sections cover the different categories of fungal infection including superficial cutaneous mycoses, subcutaneous mycoses, systemic mycoses and opportunistic mycoses. A complete section is dedicated to pseudofungal infections. The highly illustrated text concludes with a detailed appendices section and each chapter features key references for further reading. Key points Fully revised, fourth edition providing latest information on the diagnosis and management of fungal infections Covers the entire spectrum of mycoses Highly illustrated with clinical photographs and figures Previous edition (9788188039780) published in 2009**

# Oxford Textbook of Medical Mycology

*Oxford University Press* Part of the Oxford Textbook in Infectious Disease and Microbiology series, this comprehensive reference unites the science and medicine of human fungal disease. Written by a leading group of international authors, topics include recent developments in taxonomy, fungal genetics and other "omics", epidemiology, pathogenesis, and immunology.

## Progress in Mycology

## Biology and Biotechnological Applications

*Springer Nature* Indian mycologists have extensively studied various groups of fungi such as soil fungi, aquatic fungi, marine fungi, endophytic fungi, fungi associated with man and animals. Though several books on various aspects of fungi are published, this is the first account of the history and development in mycology in India. This book is the second volume of the two-volume book "Progress in Mycology: An Indian Perspective". While volume 1 contains the historical aspects, taxonomy and information about the various groups of fungi, this volume focuses majorly on the biotechnological applications of the different groups of fungi. It discusses topics such as the extremophilic fungi, the history and development in *Candida* research, progress of mycotoxin research in India etc. It provides a detailed account of the various enzymes and bio-active molecules derived from fungi. India shows a very high biodiversity of fungi, and this book discusses these different group of fungi and their industrial and biotechnological applications. This book is useful to students, teachers and researchers in botany, microbiology, biotechnology and life sciences, agriculture and industries using fungi to produce various valuable products.

## Fundamental Medical Mycology

*John Wiley & Sons* 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.

## ATLAS OF MEDICAL MYCOLOGY

*CBS Publishers & Distributors Private Limited* **The Atlas showcases photographs of culture morphology and photomicrographs of both common and uncommon fungi. The figures are accompanied by appropriate description and the book includes clinical photographs and clinical description of cases from which the fungi were isolated.**

## Descriptions of Medical Fungi

### Third Edition

**Descriptions of Medical Fungi. Third Edition. Sarah Kidd, Catriona Halliday, Helen Alexiou and David Ellis. 2016. This updated third edition which includes new 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.**

## Practical Laboratory Mycology

## Textbook of Microbiology & Immunology

*Elsevier India* **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.

## Essentials of Hospital Infection Control

*Jaypee Brothers Medical Publishers*

## Paniker's Textbook of Medical Parasitology

*JP Medical Ltd* The new edition of this textbook is a complete guide to parasitology for undergraduate medical students. Divided into 23 chapters, each topic has been thoroughly updated and expanded to cover the most recent advances and latest knowledge in the field. The book begins with an overview of parasitology, then discusses numerous different types of parasite, concluding with a chapter on diagnosis methods. Many chapters have been rewritten and the eighth edition of the book features many new tables, flow charts and photographs. Each chapter concludes with a 'key points' box to assist with revision. Key points Eighth edition providing undergraduates with a complete guide to parasitology Fully revised text with many new topics, tables and photographs Each chapter concludes with 'key points' box to assist revision Previous edition (9789350905340) published in 2013

## Clinical Mycology

*Oxford University Press, USA* 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.

## Larone's Medically Important Fungi

### A Guide to Identification

*John Wiley & Sons* **The definitive guide for identifying fungi from clinical specimens** **Medically Important Fungi** will **expand your knowledge and support your work by:** Providing detailed descriptions of the major mycoses as viewed in patients' specimens by direct microscopic examination of stained slides Offering a logical step-by-step process for identification of cultured organisms, utilizing detailed descriptions, images, pointers on organisms' similarities and distinctions, and selected references for further information Covering nearly 150 of the fungi most commonly encountered in the clinical mycology laboratory Presenting details on each organism's pathogenicity, growth characteristics, relevant biochemical reactions, and microscopic morphology, illustrated with photomicrographs, Dr. Larone's unique and elegant drawings, and color photos of colony morphology and various test results Explaining the current changes in fungal taxonomy and nomenclature that are due to information acquired through molecular taxonomic studies of evolutionary fungal relationships Providing basic information on molecular diagnostic methods, e.g., PCR amplification, nucleic acid sequencing, MALDI-TOF mass spectrometry, and other commercial platforms Including an extensive section of easy-to-follow lab protocols, a comprehensive list of media and stain procedures, guidance on collection and preparation of patient specimens, and an illustrated glossary With **Larone's Medically Important Fungi: A Guide to Identification**, both novices and experienced professionals in clinical microbiology laboratories can continue to confidently identify commonly encountered fungi.

# Advances and Applications Through Fungal Nanobiotechnology

*Springer* Fungal nanobiotechnology has emerged as one of the key technologies, and an eco-friendly, as a source of food and harnessed to ferment and preserve foods and beverages, as well as applications in human health (antibiotics, anti-cholesterol statins, and immunosuppressive agents), while industry has used fungi for large-scale production of enzymes, acids, biosurfactants, and to manage fungal disease in crops and pest control. With the harnessing of nanotechnology, fungi have grown increasingly important by providing a greener alternative to chemically synthesized nanoparticles.

## Atrophic Rhinitis

# From the Voluptuary Nasal Pathology to the Empty Nose Syndrome

*Springer Nature* This book presents the state of the art in atrophic rhinitis and analyses its specific characteristics in non-allergic rhinitis. Little has been written on this condition, which represents a topical issue in modern clinical practice, and as such many clinicians tend to underestimate its impact on patients' quality of life. This book covers the definition, aetiology, clinical presentation, diagnosis and management, providing specialists with a better understanding of this condition and of the treatment options. It describes in detail the latest diagnostic tools, such as the innovative computational fluid-dynamics studies, nasal cytology, trigeminal stimulation tests, olfactometry, subjective questionnaires, with a focus on the psychological aspects, which have not yet been systematically investigated. Further, it discusses therapeutic strategies, both medical and surgical, reviewing the literature, from the first historical procedures to recent conservative techniques, such as lateral nasal wall reconstruction with various materials, and septal perforation repair. Illustrating all the options currently available, the book is an invaluable

resource, not only for otolaryngologists, but also for plastic surgeons, clinical allergists and rheumatologists.

## Crop Stress and its Management: Perspectives and Strategies

*Springer Science & Business Media* **Crops experience an assortment of environmental stresses which include abiotic viz., drought, water logging, salinity, extremes of temperature, high variability in radiation, subtle but perceptible changes in atmospheric gases and biotic viz., insects, birds, other pests, weeds, pathogens (viruses and other microbes). The ability to tolerate or adapt and overwinter by effectively countering these stresses is a very multifaceted phenomenon. In addition, the inability to do so which renders the crops susceptible is again the result of various exogenous and endogenous interactions in the ecosystem. Both biotic and abiotic stresses occur at various stages of plant development and frequently more than one stress concurrently affects the crop. Stresses result in both universal and definite effects on plant growth and development. One of the imposing tasks for the crop researchers globally is to distinguish and to diminish effects of these stress factors on the performance of crop plants, especially with respect to yield and quality of harvested products. This is of special significance in view of the impending climate change, with complex consequences for economically profitable and ecologically and environmentally sound global agriculture. The challenge at the hands of the crop scientist in such a scenario is to promote a competitive and multifunctional agriculture, leading to the production of highly nourishing, healthy and secure food and animal feed as well as raw materials for a wide variety of industrial applications. In order to successfully meet this challenge researchers have to understand the various aspects of these stresses in view of the current development from molecules to ecosystems. The book will focus on broad research areas in relation to these stresses which are in the forefront in contemporary crop stress research.**

## Nanobiotechnology in Diagnosis, Drug Delivery and

# Treatment

*John Wiley & Sons* **Presents nanobiotechnology in drug delivery and disease management** Featuring contributions from noted experts in the field, this book highlights recent advances in the nano-based drug delivery systems. It also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non-infectious disorders, such as cancers and other malignancies and their role in future medicine. **Nanobiotechnology in Diagnosis, Drug Delivery and Treatment** starts by introducing how nanotechnology has revolutionized drug delivery, diagnosis, and treatments of diseases. It then focuses on the role of various nanocomposites in diagnosis, drug delivery, and treatment of diseases like cancer, Alzheimer's disease, diabetes, and many others. Next, it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders. The book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response, targeted drug delivery, enhanced drug accumulation in the target tissues, sustained as well as triggered release of drugs, and reduction in adverse effects. Other chapters cover aptamer-incorporated nanoparticle systems; magnetic nanoparticles; theranostics and vaccines; toxicological concerns of nanomaterials used in nanomedicine; and more. Provides a concise overview of state-of-the-art nanomaterials and their application like drug delivery in infectious diseases and non-infectious disorders **Highlights recent advances in the nano-based drug delivery systems and role of various nanomaterials** **Introduces nano-based sensors which detect various pathogens** **Covers the use of nanodevices in diagnostics and theranostics** **Nanobiotechnology in Diagnosis, Drug Delivery and Treatment** is an ideal book for researchers and scientists working in various disciplines such as microbiology, biotechnology, nanotechnology, pharmaceutical biotechnology, pharmacology, pharmaceuticals, and nanomedicine.

# Mycorrhizae: Sustainable Agriculture and Forestry

*Springer Science & Business Media* **Mycorrhizal fungi are microbial engines which improve plant vigor and soil quality.** They play a crucial role in plant nutrient uptake, water relations, ecosystem establishment, plant diversity, and the productivity of plants. Scientific research involves multidisciplinary approaches to understand the adaptation of mycorrhizae to the rhizosphere, mechanism of root colonization, effect on plant physiology and growth, biofertilization, plant resistance and biocontrol of plant pathogens. This book discusses and goes into detail on a number of topics: the

molecular basis of nutrient exchange between arbuscular mycorrhizal (AM) fungi and host plants; the role of AM fungi in disease protection, alleviation of soil stresses and increasing grain production; interactions of AM fungi and beneficial saprophytic mycoflora in terms of plant growth promotion; the role of AM fungi in the restoration of native ecosystems; indirect contributions of AM fungi and soil aggregation to plant growth and mycorrhizosphere effect of multitrophic interaction; the mechanisms by which mycorrhizas change a disturbed ecosystem into productive land; the importance of reinstallation of mycorrhizal systems in the rhizosphere is emphasized and their impact on landscape regeneration, and in bioremediation of contaminated soils; Ectomycorrhizae (ECM) and their importance in forest ecosystems and associations of ECM in tropical rain forests function to maintain tropical monodominance; in vitro mycorrhization of micro-propagated plants, and visualizing and quantifying endorhizal fungi; the use of mycorrhizae, mainly AM and ECM, for sustainable agriculture and forestry.

## Diagnostic Medical Parasitology

*John Wiley & Sons* **Diagnostic Medical Parasitology** covers all aspects of human medical parasitology and provides detailed, comprehensive, relevant diagnostic methods in one volume. The new edition incorporates newly recognized parasites, discusses new and improved diagnostic methods, and covers relevant regulatory requirements and has expanded sections detailing artifact material and histological diagnosis, supplemented with color images throughout the text.

## Biodiversity and Biomedicine

### Our Future

*Academic Press* **Biodiversity and Biomedicine: Our Future** provides a new outlook on Earth's animal, plant, and fungi species as vital sources for human health treatments. While there are over 10 million various species on the planet, only 2 million have been discovered and named. This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity conservation. Written by leading biodiversity and biomedical experts, the book begins with new insights on the benefits of biologically active compounds found in fungi

and plants, including a chapter on the use of wild fruits as a treatment option. The book goes on to discuss the roles of animals, such as amphibians and reptiles, and how the threatened presence of these species must be reversed to conserve biodiversity. It also discusses marine organisms, including plants, animals, and microbes, as essential in contributing to human health. **Biodiversity and Biomedicine: Our Future** is a vital source for researchers and practitioners specializing in biodiversity and conservation studies. Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio-rich communities and the molecular diversity of various species. Presents new developments in documenting and identifying species for biodiversity conservation and ethical considerations for biodiversity research Examines biodiversity as an irreplaceable resource for biomedical breakthroughs using available species for medical research Discusses challenges and opportunities for biodiversity protection and research in biosphere reserves

## Rajayoga Meditation Course

### 7 Day Course - Brahma Kumaris

*Brahma Kumaris* The study or recitation of sacred texts for one week continuously is considered in India to be of special sanctity and of great spiritual merit. Here, it is customary for the religious-minded people to arrange for one-week recitation of a scripture, styling it as 'Shrimad Bhagwat Week' or 'The Gita Week'. It would be worthwhile to know how and when this practice or tradition of holding seven-day religious congregations for reading out the legends or scriptures started. It is sincerely hoped that by hearing, reading, recapitulating and practising this Knowledge and Yoga in the aforesaid manner, man would attain purity, peace and bliss and would feel himself a highly blessed and lucky person.

## Medical Mycology

*CBS Publishers & Distributors Pvt Limited, India* This second edition has been thoroughly updated to keep pace with rapid changes in medical science. The book broadens the reader's knowledge and provides current information regarding the emerging pathogens that are being encountered. Fungal morphology, cultivation identification, pathogenesis pathology

and laboratory diagnosis of mycoses have been described in detail. The book is divided into seven sections: general topics, superficial cutaneous mycoses, subcutaneous mycoses, systemic mycoses, opportunistic mycoses, miscellaneous mycoses, and appendices.

## Fungal Respiratory Infections in Cystic Fibrosis

*Frontiers Media SA*

## Essentials of Medical Microbiology

*Jaypee Brothers, Medical Publishers Pvt. Limited* The new edition of this comprehensive guide provides students with the latest information and advances in medical microbiology. Divided into seven sections, the book begins with discussion on general microbiology, followed by immunology, systematic bacteriology, virology and mycology. The second edition has been fully revised and features two new sections covering hospital acquired infections and clinical microbiology. The extensive text is further enhanced by more than 600 clinical photographs, diagrams and tables. The book concludes with annexures on emerging and re-emerging infections, bioterrorism, laboratory acquired infections, and zoonosis (the transmission of disease between humans and animals). Key points Comprehensive guide to medical microbiology for students Fully revised, second edition featuring many new topics Highly illustrated with clinical photographs, diagrams and tables Previous edition (9789351529873) published in 2015

## Fundamentals of Diagnostic Mycology

*Saunders* Fundamentals of Diagnostic Mycology is a unique resource dedicated exclusively to isolating medically important and commonly encountered fungi in clinical laboratory specimens. Whether in the classroom or the laboratory, it's the ideal resource for mastering the skills you need to recognize fungi and the infections that they cause. Detailed line drawings and photomicrographs depict typical and atypical examples of the fungus as it is likely to be seen in routine laboratory preparations, with explanations of identifying features. Plus, scale drawings show the relative size of different fungi.

# Essentials of Medical Microbiology (Revised Edition)

*Jaypee Brothers, Medical Publishers Pvt. Limited*

## Antifungal Therapy

*CRC Press* **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**

## Agroforestry for Degraded Landscapes

## Recent Advances and Emerging Challenges - Vol. 2

*Springer Nature* **This book presents various aspects of agroforestry research and development, as well as the latest trends in degraded landscape management. Over the last four decades, agroforestry research (particularly on degraded landscapes) has evolved into an essential problem-solving science, e.g. in terms of sustaining agricultural productivity, improving soil health and biodiversity, enhancing ecosystem services, supporting carbon sequestration and mitigating climate change. This book examines temperate and tropical agroforestry systems around the world, focusing on traditional and modern practices and technologies used to rehabilitate degraded lands. It covers the latest research advances, trends and challenges in the utilization and reclamation of degraded lands, e.g. urban and peri-**

urban agroforestry, reclamation of degraded landscapes, tree-based multi-enterprise agriculture, domestication of high-value halophytes, afforestation of coastal areas, preserving mangroves and much more. Given its scope, the book offers a valuable asset for a broad range of stakeholders including farmers, scientists, researchers, educators, students, development/extension agents, environmentalists, policy/decision makers, and government and non-government organizations.

## Fungi for Human Health

### Current Knowledge and Future Perspectives

*Springer Nature* Current research lays emphasis on exploring natural products for use in nutraceuticals and pharmaceuticals to overcome various side effects of synthetic drugs. Fungi occupy an eminent position among natural sources of food and medicinal importance since ancient times. Many fungal species have been eaten as food and used in folk medicine for the treatment of many human ailments as mentioned in traditional medical literature. However, scanty information is available pertaining to the nutraceutical and pharmaceutical importance of fungi which merits an extensive review. This book spotlights the use value macrofungi in human health. Macrofungi with health benefitting properties largely belong to Basidiomycota followed by Ascomycota growing indoor (cultivated) and outdoor (wild). We endeavoured to throw light on the benefits of macrofungal taxa in relation to their food and medicinal significance in human life. We provided knowledge pertaining to the ethnomycological significance of macrofungi with respect to their uses as food and medicine by the people inhabiting different parts of the world. This book highlights the nutritional composition and bioactive compounds present in macrofungi. We also focused on the pharmacological activities of macrofungi contributing towards their medicinal value against several human disorders. We cited many commercially available nutraceutical and pharmaceutical products of macrofungal origin. This work will hopefully serve as a basic reference for general public, mycologists, researches and industry men, interested in consumption, research and marketing of macrofungi.

# Agroforestry for Degraded Landscapes

## Recent Advances and Emerging Challenges - Vol.1

*Springer Nature* This book presents various aspects of agroforestry research and development, as well as the latest trends in degraded landscape management. Over the last four decades, agroforestry research (particularly on degraded landscapes) has evolved into an essential problem-solving science, e.g. in terms of sustaining agricultural productivity, improving soil health and biodiversity, enhancing ecosystem services, supporting carbon sequestration and mitigating climate change. This book examines temperate and tropical agroforestry systems around the world, focusing on traditional and modern practices and technologies used to rehabilitate degraded lands. It covers the latest research advances, trends and challenges in the utilization and reclamation of degraded lands, e.g. urban and peri-urban agroforestry, reclamation of degraded landscapes, tree-based multi-enterprise agriculture, domestication of high-value halophytes, afforestation of coastal areas, preserving mangroves and much more. Given its scope, the book offers a valuable asset for a broad range of stakeholders including farmers, scientists, researchers, educators, students, development/extension agents, environmentalists, policy/decision makers, and government and non-government organizations.

# Plant Secondary Metabolites, Volume Two

## Stimulation, Extraction, and Utilization

*CRC Press* This second book in the three-volume Plant Secondary Metabolites covers the stimulation, extraction, and utilization of plant secondary metabolites, which are organic compounds that aid in the growth and development of plants but which are not required for the plant to survive by fighting off herbivores, pests, and pathogens. These plant secondary metabolites have been used since early times in various medicines and food products for beneficial health purposes and are still relevant and popular today.

# Mycotic Keratitis

*CRC Press* **Mycotic keratitis, also known as fungal keratitis, is commonly defined as an inflammation of the cornea. Globally, mycotic keratitis is more common as compared to other eye disorders. Though it occurs in all parts of the world it is more prevalent in tropical and subtropical areas. Mycotic Keratitis emphasizes novel perspectives on mycotic keratitis treatments and addresses different therapies used in treatment. The book is designed to be immensely useful for the students and teachers of microbiology, medicine, mycology, ophthalmology, biotechnology and nanotechnology. Medical microbiology researchers in general and medical mycology in particular will find it a valuable user-friendly book.**

# Essentials of Medical Parasitology

*Jaypee Brothers, Medical Publishers Pvt. Limited* **This book is a complete guide to medical parasitology for undergraduate and postgraduate students. The new edition has been fully revised to provide the latest updates and advances in the field, highlighting epidemiology, diagnosis and treatment of numerous parasitic diseases. Presented in bullet format, the text is divided into four main sections, each further sub-divided to cover different parasites. The second edition covers recent advances in laboratory diagnosis, treatment guidelines, vaccine prophylaxis, epidemiology of infectious diseases, and hospital infection control. Each chapter features questions on the topic to assist revision, as well as clinical images, schematic diagrams, tables and flowcharts. Key points Complete guide to medical parasitology for students Fully revised, new edition covering latest advances in the field Includes questions on each topic to assist revision Previous edition (9789351523291) published in 2014**

# Oxford Handbook of Infectious Diseases and Microbiology

*Oxford University Press* **Takes an integrated approach to both infectious disease and microbiology. Referenced to national frameworks and current legislation, it covers the basic principles of bacteriology and virology, specific information on**

diseases and conditions, and material on 'hot topics' such as bioterrorism and preventative medicine.

## The Short Textbook of Medical Microbiology (including Parasitology)

*Jaypee Brothers, Medical Publishers Pvt. Limited*

## Textbook of Medical Virology

*Butterworth-Heinemann* **Textbook of Medical Virology** presents a critical review of general principles in the field of **medical virology**. It discusses the description and molecular structures of virus. It addresses the morphology and classifications of viruses. It also demonstrates the principal aspects of virus particle structure. Some of the topics covered in the book are the symmetrical arrangements of viruses; introduction to different families of animal viruses; biochemistry of virus particles; the immunological properties and biological activities of viral gene products; description of enzymatic activities of viruses; and haemagglutination, cell fusion, and haemolysis of viruses. The description and characteristics of viral antigens are covered. The identification and propagation of viruses in tissue and cell cultures are discussed. An in-depth analysis of the principles of virus replication is provided. A study of the morphogenesis of virions is also presented. A chapter is devoted to virus-induced changes of cell structures and functions. The book can provide useful information to virologists, microbiologists, students, and researchers.

## Mycorrhizal Biotechnology

*CRC Press* **Several studies have demonstrated that mycorrhizal associations play vital role in plant nutrition. They greatly increase the efficiency of nutrient and water uptake, enhance resistance to pathogens, and buffer plant species against several environmental stresses and drought resistance. Mycorrhizae also improve plant growth and survival in soils co**

# The Short Textbook of Medical Microbiology for Nurses

*Jaypee Brothers Medical Publishers Pvt. Limited*

## Endophytic Fungi

### Diversity, Characterization and Biocontrol

*Nova Science Publishers* **Endophytic fungi are important biotechnological tools because they produce many secondary metabolites. However, to access this important source of bioactive molecules, it is essential to explore the diversity of endophytic fungi and catalog their species richness in different ecosystems. This book reviews the diversity, characterisation and biocontrol of endophytic fungi.**

## Clinical Mycology

*Elsevier Health Sciences* **The first book of its kind to focus on the diagnosis, prevention, and treatment of patients with fungal infections, this definitive reference returns in a completely revised, full-color new edition. It presents specific recommendations for understanding, controlling, and preventing fungal infections based upon underlying principles of epidemiology and infection control policy, pathogenesis, immunology, histopathology, and laboratory diagnosis and antifungal therapy. More than 560 photographs, illustrations, and tables depict conditions as they appear in real life and equip you to identify clinical manifestations with accuracy. Expanded therapy content helps you implement the most appropriate treatment quickly, and a bonus CD-ROM-featuring all of the images from the text-enables you to enhance your electronic presentations. Includes specific recommendations for diagnosing, preventing, and treating fungal infections in various patient populations based upon underlying principles of epidemiology and infection control policy, pathogenesis, immunology, histopathology, and laboratory diagnosis and antifungal therapy. Covers etiologic agents of disease, fungal infections in special hosts such as pediatric patients and patients with cancer and HIV, infections of specific organ systems, and more, to make you aware of the special considerations involved in certain cases. Features clinically useful and reader-friendly practical tools-including algorithms, slides, graphs, pictorials,**

photographs, and radiographs-that better illustrate and communicate essential points, promote efficient use in a variety of clinical and academic settings, and facilitate slide making for lectures and presentations. Offers a CD-ROM containing all of the book's images for use in your electronic presentations. Offers more clinically relevant images-more than 300 in full color for the first time-to facilitate diagnosis. Features expanded therapy-related content, including up-to-date treatment strategies and drug selection and dosing guidelines. Includes several new sections in the chapter on fungal infections in cancer patients that reflect the formidable clinical challenges these infections continue to present. Presents the work of additional international contributors who have defined many of the key issues in the field, providing more of a global perspective on the best diagnostic and management approaches. Uses a new, full-color design to enhance readability and ease of access to information.

## Diagnosis and Treatment in Internal Medicine

*Oxford University Press* **Diagnosis and Treatment in Internal Medicine** equips trainee doctors with the essential skills and core knowledge to establish a diagnosis reliably and quickly, before outlining the management of the clinical condition diagnosed. Organised into three sections, the first provides a vital overview, whilst the second focuses on common presentations and diagnoses. Uniquely, this new book shows readers how to turn symptoms into a list of diagnoses ordered by probability - a differential diagnosis. Experienced consultants who teach trainees every day demonstrate how to derive an ordered differential diagnosis, how to narrow this down to a single diagnosis and if not, how to live with diagnostic uncertainty. The final section provides a comprehensive account of the management of system-based syndromes and diseases. Highly-structured chapters emphasize how common conditions present, how to approach a diagnosis, and how to estimate prognosis, treatment and its effectiveness. An onus is placed on the development of crucial diagnostic skills and the ability to devise evidence-based management plans quickly and accurately, making this an ideal text for core medical trainees.