

Medical Mycology Handbook

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laboratory handbook of medical mycology summarizes the concepts dealing with the laboratory aspects of medical mycology the publication first offers information on basic terminology and classification laboratory safety and clinical specimens discussions focus on tissue abscess blood bone marrow and urine specimens biological hazards disinfection and sterilization grounding of electrical equipment

waste disposal asexual and sexual reproduction and vegetative growth the text then takes a look at mold and yeast identification including fermentation temperature studies asci and ascospores zygomycetes cycloheximide resistance and sporulation and sterile isolates the manuscript ponders on susceptibility testing and bioassay procedures culture collection and quality control topics include proficiency evaluations media and equipment control depositing unusual isolates in major culture collections reconstituting lyophilized cultures bioassay to determine drug levels in body fluids and in vitro susceptibility testing the publication is a dependable source of data for laboratory technologists microbiologists and mycologists engaged in safely isolating and accurately identifying fungi of medical importance

this volume supplements the other books on this subject by providing much information that is not readily available elsewhere it opens with a taxonomy of fungi in foods and feeds and then considers ecology spoilage and mycotoxin production by fungi in foods and feeds this is followed by a series

mycotechnology has a crucial role to play in the 21st century fungi are bioprotectors bioremediators bio fertilizers drug producers and involved in everyday life mycotechnology present status and future prospects includes current and rare topics on mycotechnology such as molecular techniques for analysis of soil fungi diagnosis of ochratoxin a producing fungi identification of ectomycorrhizal fungi sppadbase bioactive sesquiterpenes mycological applications of raman spectroscopy etc key features discusses latest developments in mycotechnology addresses molecular diagnosis of mycotoxins soil microbes and ectomycorrhizal fungus includes role of type culture collection in mycological research and applications e g drug discovery from fungi deals with the role of fungal chitinase focuses on strategic role of amf in agroecosystem and disease control contains database of pcr primers for phytopathogenic fungus this book is essential reading for mycologists biotechnologists microbiologists botanists agronomists physicists biochemists

works cited in this useful survey are appropriate for students librarians and amateur and professional botanists these encompass the plant kingdom in all its divisions and aspects except those of agriculture horticulture and gardening the majority of the annotations are for currently available in print or electronic reference works a comprehensive author title and a separate subject index make locating specific entries simple with materials ranging from those selected for the informed layperson to those for the specialist this new edition reflects the momentous transition from print to electronic information resources it is an appropriate purchase for public college university and professional libraries

a comprehensive study of the biology taxonomy and ecology of each of the soil

biotic groups the first chapter presents an ecological approach to soil studies the remaining 42 chapters provide specific information on each of the taxonomic groupings contains illustrated identification keys to each group some keys go by functional morphological delineations others lead the reader to classical identification at family genus or species levels some incorporate descriptions of new genera and species especially useful for the study of mesic xeric and hydric terrestrial sites includes an extensive bibliography

this volume is an international compilation for biotechnologists of data on the location and use of filamentous fungi the volume provides details of the location and scope of major culture collections around the world holding fungi information on how to access their data administration and safety identification culture and media recipes preservation patents specialist services and international organization

this single source reference provides a comprehensive overview of recent advances in industrial mycology the handbook provides a framework of basic methods tools and organizational principles for channeling fungal germplasm into the academic pharmaceutical and enzyme discovery laboratories and discusses the complex range of processes involved in the discovery characterization and profiling of bioactive fungal metabolites this authoritative book provides examples of several recently marketed fungal metabolites for clear demonstration and recognizes the impact of fungi on applications in the pharmaceutical food and beverage agricultural and agrochemical industries

deals with study of fungi

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