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Biodiversity of Fungi argues that fungi and their allies (slime molds and water molds) are critically important players in the world's ecosystems, yet science has documented relatively few of the species that are thought to exist. The book's purpose is to provide standardized methods for quantitative measures of fungal populations in almost any habitat.

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~~Fungal Biodiversity Patterns — Texas Tech University Scholars~~

O'Dell, TE, Lodge, DJ & Mueller, GM 2004, Approaches to sampling macrofungi: Inventory and Monitoring Methods. in GM Mueller, G Bills & MS Foster (eds), Biodiversity of Fungi: Inventory and Monitoring Methods. Elsevier Academic Press, San Diego, CA, pp. 163-168.

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and/or monitoring any fungi. Fascinating and beautiful, fungi are vital components of nearly all ecosystems and impact human health and our economy in a myriad of ways. Standardized methods for documenting diversity and distribution have been lacking. A wealth of information, especially regarding sampling protocols, compiled by an international team of fungal biologists, make Biodiversity of Fungi an incredible and fundamental resource for the study of organismal biodiversity. Chapters cover everything from what is a fungus, to maintaining and organizing a permanent study collection with associated databases; from protocols for sampling slime molds to insect associated fungi; from fungi growing on and in

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animals and plants to mushrooms and truffles. The chapters are arranged both ecologically and by sampling method rather than by taxonomic group for ease of use. The information presented here is intended for everyone interested in fungi, anyone who needs tools to study them in nature including naturalists, land managers, ecologists, mycologists, and even citizen scientists and sophisticated amateurs. Covers all groups of fungi - from molds to mushrooms, even slime molds Describes sampling protocols for many groups of fungi Arranged by sampling method and ecology to coincide with users needs Beautifully illustrated to document the range of fungi treated and techniques discussed Natural history data are

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provided for each group of fungi to enable users to modify suggested protocols to meet their needs

Presents information on an all -taxa inventory of fungal biodiversity. Notes that to inventory all fungal taxa in a defined area the complete range of organic substrates must be sampled in all stages of development and decay over time. Discusses the economic value of fungi, the current knowledge about the diversity of fungi, and major groups of fungi. Highlights the substrates to be sampled, the sampling approaches, and isolation.

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The Fungal Community: Its Organization and Role in the Ecosystem, Third Edition addresses many of the questions related to the observations, characterizations, and functional attributes of fungal assemblages and their interaction with the environment and other organisms. This edition promotes awareness of the functional methods of classification over taxonomic methods, and approaches the concept of fungal communities from an ecological perspective, rather than from a fungicentric view. It has expanded to examine issues of global and local biodiversity, the problems associated with exotic species, and the debate

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concerning diversity and function. The third edition also focuses on current ecological discussions - diversity and function, scaling issues, disturbance, and invasive species - from a fungal perspective. In order to address these concepts, the book examines the appropriate techniques to identify fungi, calculate their abundance, determine their associations among themselves and other organisms, and measure their individual and community function. This book explains attempts to scale these measures from the microscopic cell level through local, landscape, and ecosystem levels. The totality of the ideas, methods, and results presented by the contributing authors points to the future direction of mycology.

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Covers the range of natural and managed oak forests in the highlands of tropical America. Providing an understanding of ecological patterns and processes that determine the structure and functioning of these forests, this volume aims to serve as a basis for sustainable forest management and biodiversity conservation.

A comprehensive collection, this trilogy contains the official list of all approximately 56,120 living and 14,700 fossil species of New Zealand's animal, plant,

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fungi, and microorganism populations. Featuring photographs and illustrations, it demonstrates the value and benefits of taxonomic research in New Zealand and its applications to science, biotechnology, conservation, and biosecurity. The project is the first of its kind, as no other country has compiled a checklist of its entire biota.

Laboratory Protocols in Fungal Biology presents the latest techniques in fungal biology. This book analyzes information derived through real experiments, and focuses on cutting edge techniques in the field. The book comprises 57 chapters contributed from internationally recognised scientists and researchers.

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Experts in the field have provided up-to-date protocols covering a range of frequently used methods in fungal biology. Almost all important methods available in the area of fungal biology viz. taxonomic keys in fungi; histopathological and microscopy techniques; proteomics methods; genomics methods; industrial applications and related techniques; and bioinformatics tools in fungi are covered and compiled in one book. Chapters include introductions to their respective topics, list of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting. Each chapter is self-contained and written in a style that enables the reader to progress

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from elementary concepts to advanced research techniques. Laboratory Protocols in Fungal Biology is a valuable tool for both beginner research workers and experienced professionals. Coming Soon in the Fungal Biology series: Goyal, Manoharachary / Future Challenges in Crop Protection Against Fungal Pathogens Martín, García-Estrada, Zeilinger / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Zeilinger, Martín, García-Estrada / Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites, Volume 2 van den Berg, Maruthachalam / Genetic Transformation Systems in Fungi Schmoll, Dattenbock / Gene Expression Systems in Fungi Dahms / Advanced

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Microscopy in Mycology

The diversity, ecological role and biotechnological applications of marine fungi have been addressed in numerous scientific publications in the last few years. This enormous spurt of information has led to a dire need among students and professionals alike for a source, which contains comprehensive reviews of various aspects of marine fungi. This book addresses this need, especially since it is written by reputed marine mycologists. The latest information on topics including molecular taxonomy and phylogeny, ecology of fungi in different marine habitats such as deep sea, corals, dead- sea, fungi in extreme marine

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environments and their biotechnological applications is reviewed. The book presents a comprehensive source of information and analysis aimed at marine fungi for researchers, teachers and students of marine mycology.

Fungal diseases have contributed to death and disability in humans, triggered global wildlife extinctions and population declines, devastated agricultural crops, and altered forest ecosystem dynamics. Despite the extensive influence of fungi on health and economic well-being, the threats posed by emerging fungal pathogens to life on Earth are often underappreciated and poorly understood. On

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December 14 and 15, 2010, the IOM's Forum on Microbial Threats hosted a public workshop to explore the scientific and policy dimensions associated with the causes and consequences of emerging fungal diseases.

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