



Fungal Community

**John Dighton, James White, Peter
Oudemans**



Fungal Community:

The Fungal Community John Dighton, James White, Peter Oudemans, 1992-06-26 Entirely rewritten and updated throughout this Second Edition maintains and enhances the features of the first edition The Fungal Community Second Edition continues to cover the entire spectrum of fungal ecology from studies of individual fungal populations to the functional role of fungi at the ecosystem level and to present mycological ecology as a rational organized body of knowledge Acting as a bridge between mycological data and ecological theory The Fungal Community Second Edition offers such new features as an emphasis on the nonequilibrium perspective including the impact of habitat disturbance and environmental stress more information on the ecological genetics of fungal populations a chapter on the fitness of genetically altered fungi when released into the environment an examination of fungal morphological and physiological adaptations from the evolutionary ecologist's point of view an explication of the effect of fungi and insect interactions on fungal community structure and decomposition processes a section on the importance of fungi in determining patterns of plant community development and a chapter on modeling fungal contributions to decomposition and nutrient cycling in ecosystems With over 3700 references The Fungal Community Second Edition is a resource for mycologists microbial ecologists microbiologists geneticists virologists plant pathologists cell and molecular biologists biotechnologists soil forest and environmental scientists and graduate level students in these disciplines

The Fungal Community John Dighton, James F. White, 2005-05-24 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 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

The Fungal Community Donald T. Wicklow, George C. Carroll, 1981

The Fungal Community John Dighton, James F. White, 2017-03-16 a number of chapters provide excellent summaries of the modern methods available for studying fungal ecology along with those more traditional methods that are still extremely valuable overall it is a hugely valuable compendium of fungal ecology research It is a must for the library shelf Lynne Boddy Cardiff University UK Mycological

Research 2006 These 44 chapters are an excellent starting point for anyone interested in fungal communities in the broadest sense of the term It is a book for dipping into may be the last comprehensive treatment of fungal communities before the molecular revolution Meriel Jones University of Liverpool UK Microbiology Today the scope of the work is tremendous Excellent chapters providing overviews of methods provide a snap shot of the current approaches used to understand fungal communities at several levels of organization This book should probably be on the shelf of every student of mycology and many ecologists too For all students this book should be a valuable resource and source of inspiration Daniel Henk Imperial College Faculty of Medicine London in Inoculum Vol 59 No 3 May 2008 Thorough taxonomic and subject indices further aid the reader in navigating through multiple authors treatments of subjects of interest Anthony Amend Department of Botany University of Hawaii at Manoa in Economic Botany V 61 In all subjects in science new findings and the use of new technologies allow us to develop an ever greater understanding of our world Expanded and updated coverage in the fourth edition includes Adds new sections on Integrating Genomics and Metagenomics into Community Analysis Recent Advances in Fungal Endophyte Research Fungi in the Built Environment and Fungal Signaling and Communication Includes a broader treatment of fungal communities in natural ecosystems with in depth coverage of fungal adaptations to stress and conservation Expands coverage of the influence of climate change on fungi and the role of fungi in organically polluted ecosystems Includes contributions from scientists from 20 nations to illustrate a true global approach for bridging gaps between ecological concepts and mycology

Theories, Methods, and Practices of Wetland Degradation and Restoration Zhenguo Niu,Yijian Zeng,Haitao Wu,Guangxuan Han,Sheel Bansal,2023-07-07 **Mycorrhizal Networks**

Thomas R. Horton,2015-11-16 The last 25 years have seen significant advances in our understanding of the mycorrhizal fungi that colonize most of the world s plants and the mycorrhizal networks that form and extend into the soil beyond plant roots In addition to a thorough review of recent research on mycorrhizal networks this book provides readers with alternative perspectives The book is organized into three sections Network Structure Nutrient Dynamics and the Mutualism Parasitism Continuum Chapter 1 addresses the specificity of ectomycorrhizal symbionts and its role in plant communities and provides an updated list of terms and definitions Chapter 2 explores interactions between symbionts in mycorrhizal fungi networks as well as interactions between fungal individuals The second section of the book begins with the examination in Chapter 3 of extramatrical mycelium mycelia beyond the root tips in ectomycorrhizal fungi focused on carbon and nitrogen Chapter 4 reviews the influence of mycorrhizal networks on outcomes of plant competition in arbuscular mycorrhizal plant communities Chapter 5 discusses nutrient movement between plants through networks with a focus on the magnitude fate and importance of mycorrhiza derived nutrients in ectomycorrhizal plants Section 3 opens with a review of research on the role of ectomycorrhizal networks on seedling establishment in a primary successional habitat in Chapter 6 The focus of Chapter 7 is on facilitation and antagonism in arbuscular mycorrhizal networks Chapter 8 explores the unique networking dynamic of

Alnus which differs from most ectomycorrhizal plant hosts in forming isolated networks with little direct connections to networks of other host species in a forest Chapter 9 argues that most experiments have not adequately tested the role of mycorrhizal networks on plant community dynamics and suggests more tests to rule out alternative hypotheses to carbon movement between plants especially those that include experimental manipulations of the mycorrhizal networks Plant ecologists have accumulated a rich body of knowledge regarding nutrient acquisition by plants The editor proposes that research indicating that mycorrhizal fungi compete for nutrients which are then delivered to multiple hosts through mycorrhizal networks represents an important new paradigm for plant ecologists **Anthropogenic Effects on the Microbial Communities of Terrestrial Ecosystems** Xingjia Xiang,Jianming Wang,Mark Radosevich ,Yaping Lin,Wenchen Song,2025-08-29 Microorganisms are important participants in supporting the functionality and diversity of terrestrial ecosystems The microbial community is a key component that determines the structure function and complex processes of terrestrial ecosystems The patterns and mechanisms of microbial community structure and function with respect to geographical scales and environmental changes have always been a focal and hot topic in environmental microbiology ecology and geography research However with the intensification of climate change and changes caused by other human activities the ability of terrestrial ecosystems to withstand disturbances and maintain their functionality is increasingly being put to the test The role and changes of terrestrial ecosystem microorganisms in addressing this issue have become a global focus and challenge for research **Recent Advances in Restoration, Preservation and Eco-Morphophysiology of Plants Under Integrated Management Approaches and Current Climate Change** Taimoor Hassan Farooq,2023-07-04 **Rhizosphere interactions: Root exudates and the rhizosphere microbiome** Linkun Wu,Xingang Zhou,Leslie A. Weston,Shusheng Zhu,2023-10-05 **Fungi in Polar Regions** Masaharu Tsuji,Tamotsu Hoshino,2019-04-23 Fungi that inhabit polar region can grow and decompose organic compounds under subzero temperatures play important roles in the nutrient cycle of polar region ecosystems Thus changes in the mycoflora affect the ecological recycling in these regions and understanding the cold adaptation strategies of fungi under extreme environments is critical for a better understanding of polar region ecosystems Due to their ability to survive under extreme environments fungi in polar region are seen to show potential for utilization in biotechnologies This book presents our current understanding of the mycoflora in polar region and their cold adaptation strategies and applied studies using their abilities **Exploring Plant Rhizosphere, Phyllosphere and Endosphere Microbial Communities to Improve the Management of Polluted Sites** Michel Chalot,Markus Puschenreiter,2022-01-11 **Microbial Diversity and Ecosystem Functioning in Fragmented Rivers Worldwide** Lunhui Lu,Dayong Zhao,Leonardo D. Fernández,Zhe Li,2023-11-27 Dams or barriers are among the most significant anthropogenic threats to global freshwater ecosystems although they provide invaluable services for shipping hydropower generation flood protection and storage of drinking and irrigation water River fragmentations due to dams and barriers lead

the aquatic landscape into isolated river sections resulting in hydromorphological discontinuities along longitudinal or lateral gradients. Fragmented river habitats are unstable. They experience uncertain disturbances in both time and space with random and complex hydrological and environmental processes such as water flow, particulate matter, sedimentation, reservoir regulation, and terrestrial input. The diversity, composition, functionality, and activity of microbial communities are important indicators of river ecosystem functions and services. Yet river fragmentations are likely to disrupt and reconstruct microbial communities, redirecting the patterns of biogeochemical cycles of biogenic elements. Methodology such as mathematical models is still limited to describing and elucidating microbial processes under changing hydrological environments in the fragmented rivers. Thus, how do the riverine microbial communities and ecosystem functions respond to the fragmentation in rivers? This Research Topic represents a collective focus on microbial ecology, functional diversity, and new microbial modeling in fragmented rivers. We wish to present new findings in community assembly mechanisms, biotic interactions, functional diversity, and ecosystem functioning responses to the river fragmentations. New perspectives will also provide us with deep insights into the ecological effects of river fragmentation. This Research Topic aims to present the original research articles and reviews to provide new findings on microbial diversity and ecosystem functioning in fragmented rivers worldwide. We welcome original research, reviews, mini reviews, opinions, methods, hypotheses, and theories and perspectives. The directions include but are not limited to the following aspects: The continuum of the microbial community in responses to dams or barriers; Novel microbial community assembly mechanisms, functional traits, and biotic interactions in fragmented rivers at local, regional, and global scales; Functional genes, functional groups, and functional diversity in driving biogenic element cycles; Mathematical modeling in aquatic microbial ecology.

Beneficial Microbes Alleviate Climatic Stresses in Plants Ying Ma, Miroslav Vosátka, Helena Freitas, 2019-07-30. This Research Topic addresses the mechanisms by which beneficial soil microbes such as fungi and bacteria protect their host plant from climatic stresses that are increasing due to climate change. We will highlight 1) recent progress in fundamental research, 2) applied studies aimed at promoting sustainable agriculture and environmental remediation, and 3) emerging biotechnologies that promote crop adaptation to climate change. Plants respond to various climatic stresses such as drought, salinity, elevated CO₂, and extreme temperatures. These responses induce changes at the molecular, cellular, and physiological levels that restrict the establishment, growth, and development of the plant. Understanding these changes has become an important research goal due to concerns about the adverse effects of climatic stresses on agriculture, sustainability, global food security, and even plant-based remediation technologies. Some beneficial soil microorganisms such as arbuscular mycorrhizal fungi and plant growth-promoting bacteria are able to protect and promote the growth of their host plants by acting as bioprotectants via induced systemic resistance, biopesticides via antibiotic functions, and phyto-stimulators via triggering hormonal signaling networks. Plant adaptation to various climatic stresses is dynamic and involves complex cross-talk within the regulatory

network e.g transcription factors kinase cascades and signaling molecules However the detailed molecular cellular and physiological mechanisms underlying plant beneficial microbe interactions in climatic stress adaptation remain largely unknown

Effects of nitrogen deposition on ecosystems above and belowground Hui Wang,Janusz Zwiazek,Jianping Wu,2023-03-09

Microbial Communities and Functions Contribute to Plant Performance Under Various Stresses Hui Li,Diane Purchase,Xun Wen Chen,Hai-Ming Zhao,2022-12-02

Women in Terrestrial Microbiology: 2022 Katharina Kujala,Paola Grenni,Anna Barra Caracciolo,2023-12-13

Mycorrhizal Mediation of Soil Nancy Collins Johnson,Catherine Gehring,Jan Jansa,2016-11-03

Mycorrhizal Mediation of Soil Fertility Structure and Carbon Storage offers a better understanding of mycorrhizal mediation that will help inform earth system models and subsequently improve the accuracy of global carbon model predictions Mycorrhizas transport tremendous quantities of plant derived carbon below ground and are increasingly recognized for their importance in the creation structure and function of soils Different global carbon models vary widely in their predictions of the dynamics of the terrestrial carbon pool ranging from a large sink to a large source This edited book presents a unique synthesis of the influence of environmental change on mycorrhizas across a wide range of ecosystems as well as a clear examination of new discoveries and challenges for the future to inform land management practices that preserve or increase below ground carbon storage Synthesizes the abundance of research on the influence of environmental change on mycorrhizas across a wide range of ecosystems from a variety of leading international researchers Focuses on the specific role of mycorrhizal fungi in soil processes with an emphasis on soil development and carbon storage including coverage of cutting edge methods and perspectives Includes a chapter in each section on future avenues for further study

Plant Microbiome: Diversity, Functions, and Applications Khondoker M. G. Dastogeer,Jenny Kao-Kniffin,Shin Okazaki,2022-11-10

Biotechnological Advances in Bioremediation of Heavy Metal Polluted Soils Ying Ma,Miroslav Vosatka,2022-11-15

Advanced Microbial Biotechnologies For Sustainable Agriculture Ying Ma,Miroslav Vosatka,Christopher Rensing,Helena Freitas,2021-05-25

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