



# Recent Advances in Aquatic Mycology

Jones E. B. Gareth

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# Recent Advances In Aquatic Mycology

**M.W. Dick**



## **Recent Advances In Aquatic Mycology:**

Recent Mycological Researches S. C. Sati, 2006 Microbes including fungi constitute an important component of biodiversity. They comprise one of the biggest kingdoms in the living world. A lot of work has been done in mycology in the past several years in India and abroad. The present book comprises a collection of 26 original research articles by eminent mycologists. This book will be very useful for researchers, teachers and students studying mycology. *Recent Advances in Aquatic Mycology* Evan Benjamin Gareth Jones, 1976 Proceedings of a Workshop on the Biodeterioration of Tropical Woods John D. Bultman, 1976 **Fungi in Coastal and Oceanic Marine Ecosystems** Seshagiri Raghukumar, 2017-04-04 This book offers an ecosystem oriented overview of the diversity, ecological role and biotechnological applications of marine fungi as well as an in depth introduction to the marine environment, fungal classification and ecological principles. It also presents the latest research findings on coastal marine and oceanic ecosystems such as mangrove, seagrass, salt marsh, algal coral reef and benthic ecosystems. Focusing on the diversity of fungi as well as their role as symbionts, parasites and saprotrophs, the book also discusses the physiology and biotechnological applications of fungi and highlights topics of future interest. Intended for students and researchers in marine biology and microbiology, it includes detailed descriptions, illustrations, figures, tables and exhaustive literature citations. A detailed chapter on methods used to study marine fungi, their classification and ecological principles is of particular interest to newcomers in the field. **Mycoremediation** Harbhajan Singh, 2006-12-12 The first encyclopedic examination of the application of fungi in bioremediation, this book gives an overview of the science today and covers all aspects of this multidisciplinary field. It provides a solid foundation in the fundamentals and progresses to practical applications. It features step by step guidance for a myriad of effective techniques to identify, select and apply fungi towards the remediation of contaminated sites. *The Ecology of Aquatic Hyphomycetes* Felix Bärlocher, 2012-12-06 Aquatic hyphomycetes were discovered 50 years ago by C. T. Ingold. They remained a relatively obscure group until their role as intermediaries between deciduous leaves and stream invertebrates was established some 20 years ago. This book for the first time provides a comprehensive summary and critical evaluation of the biology and ecology of these organisms. A special effort was made to evaluate the potential and actual insight that have been or will be derived from work in related disciplines such as the ecology of other fungal groups, stream ecology or population ecology. The topics treated include the basic life history of the fungi and the potential role of wood, a discussion of how the fungi have adjusted to life in running water, their interactions with invertebrates, the attachment and germination of their spores, what is known about sexual reproduction, how water chemistry may influence their distribution and activity, how they react to human degradation of their environment and a summary of the research done on the Indian subcontinent. The volume is of special interest to mycologists and stream ecologists and should facilitate the entry of new workers into this exciting area.

Microbial Ecology of a Brackish Water Environment G. Rheinheimer, 2012-12-06 A knowledge which is as accurate as

possible of microbial ecology is indispensable for ecosystem research and environmental protection This is particularly true for coastal waters whereby brackish water areas occupy a special position After several years of preliminary studies on the composition and distribution of the micro flora algae fungi and bacteria a comprehensive investigation on the primary production bacterial development and microbial uptake and decomposition of substances in the Kiel Bight was carried out during which ten scientists from the Institut für Meereskunde of Kiel University participated Here for the first time numerous hydrographical chemical and microbiological parameters could be measured on the same water samples The aim of this joint project was to gain an insight into the manifold functions of the microorganisms in the uptake and degradation of organic substances and in the connections between pollution production and remineralization The results of the investigations led not only to new knowledge of the role of the microorganisms in the brackish water ecosystem but also to a revision of earlier conceptions especially on the influence of wastes on the micro flora and its role in the self purification of coastal waters Such a time limited investigation however cannot clarify all the questions on the complex relationships between the microorganisms and their biotope Therefore the present volume should also be understood as a stimulus for new and further reaching research on the microbial ecology of coastal waters Thereby the most important methods are described as well as the practical experience obtained

**Progress in Botany/Fortschritte der Botanik** Heinz Ellenberg, Karl Esser, Hermann Merxmüller, Eberhard Schnepf, Hubert Ziegler, 2012-12-06

**Methods in Stream Ecology** F. Richard Hauer, Gary Lamberti, 2011-04-27

Methods in Stream Ecology Second Edition provides a complete series of field and laboratory protocols in stream ecology that are ideal for teaching or conducting research This updated edition reflects recent advances in the technology associated with ecological assessment of streams including remote sensing In addition the relationship between stream flow and alluviation has been added and a new chapter on riparian zones is also included The book features exercises in each chapter detailed instructions illustrations formulae and data sheets for in field research for students and taxonomic keys to common stream invertebrates and algae With a student friendly price this book is key for all students and researchers in stream and freshwater ecology freshwater biology marine ecology and river ecology This text is also supportive as a supplementary text for courses in watershed ecology science hydrology fluvial geomorphology and landscape ecology Exercises in each chapter Detailed instructions illustrations formulae and data sheets for in field research for students Taxonomic keys to common stream invertebrates and algae Link from Chapter 22 FISH COMMUNITY COMPOSITION to an interactive program for assessing and modeling fish numbers

**Biodiversity & Conservation** Arvind Kumar, 2005

Papers In This Volume Written By Biologists Are Concerned With Biodiversity Losses

Marine Fungi E. B. Gareth Jones, Ka-Lai Pang, 2012-08-31

Marine fungi play a major role in marine and mangrove ecosystems Understanding how higher fungi with their spectrum of cellulolytic and ligninolytic enzymes degrade wood tissue while labyrinthuloids and thraustochytrids further contribute to the dissolved organic matter entering the open ocean is essential to marine ecology This work provides

an overview of marine fungi including morphology and ultrastructure phylogeny biogeography and biodiversity Increasingly biotechnology is also turning to these organisms to develop new bioactive compounds and to address problems such as decomposition of materials in the ocean and bioremediation of oil spills These potential applications of marine fungi are also treated In the light of massive marine oil spills in the past years the importance of understanding marine fungi and their role in the food chain cannot be underestimated

### **Microorganisms in Saline Environments: Strategies and Functions**

Bhoopander Giri,Ajit Varma,2019-07-25 This book gathers the latest findings on the microbial ecology of saline habitats plant microbe interactions under saline conditions and saline soil reclamation for agricultural use The content is divided into four main parts Part I outlines the definition of salinity its genesis and impacts and microbial diversity in saline habitats Part II deals with impact of salinity on microbial and plant life health Part III highlights plant microbe interactions in saline environments and Part IV describes strategies for mitigation and reclamation of saline soils The salinization of arable land is steadily increasing in many parts of the world An excessive concentration of soluble salts salinity in soils or irrigation water adversely affects plant growth and survival This problem is exacerbated in arid and semiarid areas due to their low precipitation and high evaporation rates In turn poor management practices and policies for using river water for the irrigation of agriculture crops often lead to the secondary salinization of soils Considering the growing demands of a constantly expanding population understanding the microbial ecology and interactions under saline conditions and their implications for sustainable agriculture is of utmost importance Providing both an essential review of the status quo and a future outlook this book represents a valuable asset for researchers environmentalists and students working in microbiology and agriculture

Techniques in Mycorrhizal Studies K.G. Mukerji,C. Manoharachary,B.P. Chamola,2013-03-14 The importance of mycorrhiza for the improvement of plant growth is increasingly being realised in Agriculture and Forestry and several mycorrhizal fungi have been commercially recognised for the purpose The aim of this book is to describe the various techniques used to study the mycorrhizal biology Problems with preparing such a book are many Mainly mailing of manuscripts to and from authors resulted in irregular and final editing Every effort was made not to change the peer review original manuscript to ensure accuracy Our sole aim is to communicate to the greatest extent possible a current world need in mycorrhizal research Plant productivity is regulated by microbial associations established in the plant root systems The interactions of microorganisms and plant roots are especially important in providing nutritional requirements of the plant and the associated microorganisms Plant growth and development are controlled largely by the soil environment in the root region rhizosphere This is a very complex environment in which the effects of the plant on soil microorganisms and the effects of microorganisms on the plant are interacting interdependent and highly complex Plant root exudates and breakdown products feed the microbes and the microbes in turn often benefit the plant Mycorrhizal fungi are important tools for increasing growth development and yield of economically important plants they play an important role of biofertilizer which

can help establish plants in nutrient deficient soils particularly phosphorus deficient soils arid semi arid and waste lands

**Perspectives in Running Water Ecology** M. Lock, 2012-12-06 The discipline of stream ecology has grown exponentially along with most other areas of science in the last three decades The field has changed from a fish management dominated poor sister of limnology to a discipline with theoretical constructs and ecological insights as rich as those in any area of ecology A focus on energy transformations nutrient turnover and the storage and processing of organic substrates has greatly enhanced the development of current paradigms For example the data base on microbial biochemical invertebrate interactions in streams is now very extensive A survey of the stream ecology literature reveals the central role played by H B Noel Hynes whom I believe to be the world's premier lotic ecologist Professor Hynes produced the major text in the field The Ecology of Running Waters which has served both as an integrative review and as a bridge between the fish water quality orientation of the fifties and sixties to the process oriented nutritional resource watershed perspectives of the seventies It should also be noted that Professor Hynes book The Biology of Polluted Waters served as a basic reference for the earlier period and he has published over 150 research papers the great majority in stream ecology spanning four decades

**Fungal Ecology** Neville J. Dix, 2012-12-06 Fungi play vital roles in all ecosystems as decomposers symbionts of animals and plants and as parasites Thus their ecology is of great interest It has been estimated that there may be as many as 1.5 million species of fungi many of which are still undescribed These interact in various ways with their hosts with their substrates with their competitors including other fungi and with abiotic variables of their environment They show great variation in morphology reproduction life cycles and modes of dispersal They grow in almost every conceivable habitat where organic carbon is available on rock surfaces in soil the sea and in fresh water at extremes of high and low temperature on dry substrata and in concentrated solutions Fungal ecology is therefore an enormous subject and its literature is voluminous In view of this we have had to be selective in the material we have included in this book We have chosen to concentrate on subjects in which we have some personal experience through either research or teaching We preferred to tackle a few subjects in depth instead of attempting to cover a wider range of topics superficially We are conscious of the extensive gaps in coverage for example on the ecology of lichens of fungal plant pathogens and of the complex interactions between fungi and animals It is some justification that book length treatments of these subjects are available elsewhere

**Straminipilous Fungi** M.W. Dick, 2013-06-29 Straminipilous Fungi presents a critical comparative review of the morphology and ultrastructure morphogenesis cytology molecular biology and evolution of the biflagellate fungi These organisms encompass the fungi formerly called oomycetes taxonomically related heterotrophs studied by mycologists plasmodiophorids and other heterotrophs Appropriate comparisons are made with chromophyte algae marine heterotrophs and chytridiaceous fungi Little known taxa which have been referred to the various orders of flagellate fungi are also listed together with citations A new hierarchical classification is presented which is supported by systematic accounts and synoptic keys Dichotomous keys based

on habitat and habit are given to all known species of lagenidiaceous fungi labyrinthulids and plasmodiophorids A unique one stop reference resource for plant pathologists is provided by the binominal lists including host related lists for the downy mildews The book including ca 4000 references is a major text for post graduate and research workers particularly freshwater and marine biologists soil ecologists and plant pathologists *Molecular Approaches to the Study of the Ocean* K.E. Cooksey, 2012-12-06 Marine biological science is now studied at the molecular level and although research scientists depend on information gained using molecular techniques there is no book explaining the philosophy of this approach *Molecular Approaches to the Study of the Ocean* introduces the reasons why molecular technology is such a powerful tool in the study of the oceans describing the types of techniques that can be used why they are useful and gives examples of their application Molecular biological techniques allow phylogenetic relationships to be explored in a manner that no macroscopic method can although the book deals with organisms near the base of the marine food web the ideas can be used in studies of macroorganisms as well as those in freshwater environments **Research on Fresh water fungi** Dr.V.R. Patil, *Guide to Sources for Agricultural and Biological Research* J. Richard Blanchard, Lois Farrell, 2023-07-28 *Freshwater Fungi* E. B. Gareth Jones, Kevin D Hyde, Ka-Lai Pang, 2014-08-27 The available literature on freshwater fungi is limited Over the subsequent years a considerable volume of scientific papers have appeared scattered throughout numerous journals There is therefore no recent synthesis of the subject and this is the objective of the proposed book Freshwater habitats are rich in fungi with some 3 000 described species most of papers focussing on their identification substrata they grow on and world distribution However these fungi play an important role in the freshwater ecosystem and are primarily involved in the breakdown of leaf litter contributing food for detritus feeders Our book will bring together a wide range of acclaimed mycologists to review recent developments on the biology and ecology of freshwater fungi particularly their molecular phylogeny biodiversity causative diseases of freshwater amphibians fishes and invertebrate animals decomposition of leaf litter stream pollution and their potential role in bioremediation

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