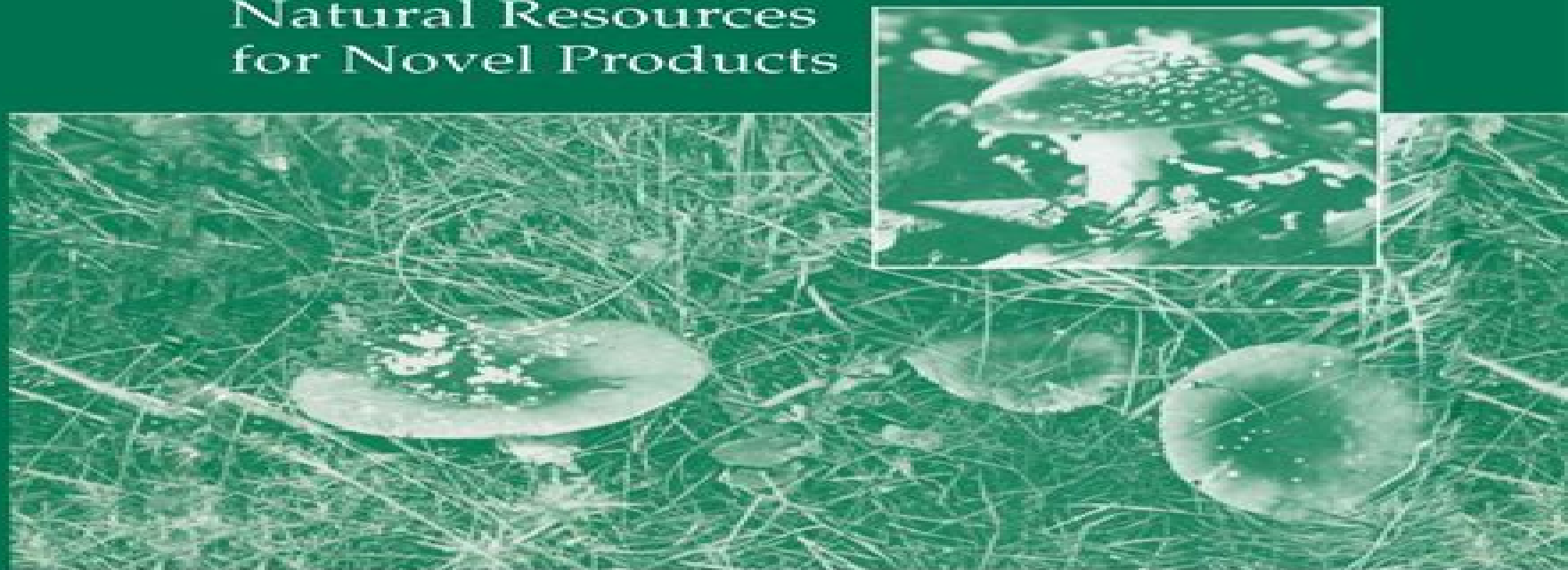


From Ethnomycology to Fungal Biotechnology

Exploiting Fungi from
Natural Resources
for Novel Products



Edited by
Jagjit Singh and K. R. Aneja

From Ethnomycology To Fungal Biotechnology Exploiting Fungi From Natural Resources For Novel Products

LP Steffe



From Ethnomycology To Fungal Biotechnology Exploiting Fungi From Natural Resources For Novel Products:

From Ethnomycology to Fungal Biotechnology Jagjit Singh, K.R. Aneja, 2012-12-06 Fungi play a major role in the sustainability of the biosphere and mycorrhizal fungi are essential for the growth of many of our woods and forests. The applications of fungi in agriculture industry and biotechnology remain of paramount importance as does their use as a source of drugs and to help clean up our environment. This volume contains key papers from the conference From Ethnomycology to Fungal Biotechnology Exploiting Fungi from Natural Resources for Novel Products. This was the first international scientific conference covering the transfer of traditional remedies and processes in ethnomycology to modern fungal biotechnology. The conference was held at Simla Himachal Pradesh India from 15 to 16 December 1997. The key subject areas addressed in the conference were the issues of exploring and exploiting fungal diversity for novel leads to new antibiotics, enzymes, medicines and a range of other leads for wood preservation, biological control, agricultural biotechnology and the uses of fungi in the food industry. The conference programme included key note presentations followed by poster sessions and general discussion. The book is broadly based covering five main areas: Ethnomycology, Fungal Biotechnology, Biological Control, Mycorrhizal Fungi and Fungal Pests. There is no doubt that in the past fungi have played a key role in ethnomycological remedies and that in the future they will continue to attract the interest of a wide range of disciplines ranging from environmental conservation, agriculture and the food industry to wood preservation and aerobiological studies.

Fungal Biotechnology in Agricultural, Food, and Environmental Applications Dilip K. Arora, 2003-12-17 Contributions from 80 world renowned authorities representing a broad international background lend Fungal Biotechnology in Agricultural Food and Environmental Applications first class information on the biotechnological potential of entomopathogenic fungi and ergot alkaloids, applications of Trichoderma in disease control and the development of mycoherbicides. Additional topics include fungal control of nematodes, control of plant disease by arbuscular mycorrhizal fungi, strategies for controlling vegetable and fruit crops, molecular biology tactics with mycotoxigenic fungi and the development of biofungicides, production of edible fungi, fermented foods and high value products like mycoprotein. **New and Future Developments in Microbial Biotechnology and Bioengineering** Joginder Singh Panwar, Praveen Gehlot, 2020-06-16 New and Future Developments in Microbial Biotechnology and Bioengineering: Recent Advances in Application of Fungi and Fungal Metabolites: Environmental and Industrial Aspects provides a comprehensive overview of recent development and applied aspects of fungi and its metabolites in environmental and industrial settings. Fungi and fungal metabolites have great prospects for developing new products in a wide range of sectors. Many fungal metabolites are environmentally friendly, clean, non-toxic agents used for environmental management practices. This book offers a systems approach and provides a means to share the latest developments and advances about the exploitation of fungal products including their wide uses in the field of environment and industry. Introduces the aspects and advances of fungi and fungal

metabolites in environmental and industry perspectives Discusses the potential of fungi and its metabolites in environmental management Includes a description of traditional uses and the modern practices of harnessing the potential of fungi and its metabolites in solving environment issues Provides details about usage of fungi and its metabolites for environmental management and industrial purposes *Biology of Indian Morels* T. N. Lakhanpal, Onkar Shad, Monika Rana, 2010 The morels is one of the most delicious and costliest wild edible mushrooms of the world During the last century significant advances have been made in the study of morel biology with the sole aim of artificial cultivation But all efforts to domesticate them have not been wholly fruitful The book is an attempt to compile all the relevant information on morel biology so that more interest in morel research is stimulated ultimately paving the way for cultivation The monograph contains 14 chapters each chapter is devoted to and provides original information and observations on various aspects of morel biology It begins with an overview of morel biology followed by the life cycle pattern classical and molecular systematic treatment ecology physiology mycorrhizal and rhizomorphospheric relationships nutritive and nutraceutical profile observations and ethno mycological and sociobiological impact cytology of ascus development and the culinary aspects of morel consumption The objective is to offer a detailed account of different aspects of morel biology and biodiversity All the chapters are documented with tables figures and original color photographs Root Biology Bhoopander Giri, Ram Prasad, Ajit Varma, 2018-05-01 The book Root Biology written by experts in the field covers latest research on cellular genetic physiological and ecological developmental facets of root growth as well as the interaction of root with an array of microbes whether for the establishment of symbiosis increasing plant growth or protecting plant from pathogens attackers Plant roots provide an excellent model to study physiological developmental and metabolic processes at a system level Root system architecture an excellent creation of nature is closely interconnected with the availability of soil nutrients Several strategies including biotechnological interventions are gaining interest and importance for sustainable food production and enhanced resource acquisition Such strategies have largely focused on root traits for efficient utilization of soil resources The biotechnological application of root biology is expected to promote the production of food while maintaining ecologically and economically sustainable production systems With a fortune of information on technical and experimental aspects useful in the laboratory this extensive book is a valuable resource for researchers academicians and students in the broad field of microbiology plant and fungal biology Biocontrol Potential and its Exploitation in Sustainable Agriculture R. K. Upadhyay, K.G. Mukerji, B. P. Chamola, 2000 Biological control of crop diseases exploiting genes involved in systemic induced resistance Biocontrol of plant diseases for agricultural sustainability Bacterial biocontrol agents and their role in plant disease management Exploitation of protoplast fusion technology in improving biocontrol potential Microbial iron chelators a sustainable tool for the biocontrol of plant diseases Antiviral phytoproteins as biocontrol agent for efficient management of plant virus diseases Mycoviruses a novel option for managing some plant diseases Exploration of microorganisms and viruses as biocontrol agents for crop

diseases management Sustainable management of arbuscular mycorrhizal fungi in the biocontrol of soil borne diseases Fungal antagonists of phytonematodes Bacterial antagonists of phytonematodes Horse purslane trianthema portulacastrum and its biocontrol with fungal pathogens Biological control of weeds in India Biological control of rot diseases of small cardamom Biocontrol of pulse diseases Biological control of pearl millet downy mildew present status and future prospects Biological control of major fungal diseases of rice and other food grains with bacterial antagonists Innovative approaches in rice sheath blight management Biocontrol Potential and its Exploitation in Sustainable Agriculture Rajeev K. Upadhyay, K.G. Mukerji, B.P. Chamola, 2012-12-06

Plant based biotechnology has come to represent a means of mitigating the problems of global food security in the twenty first century Products and processes in agriculture are increasingly becoming linked to science and cutting edge technology to enable the engineering of what are in effect designer plants One of the most successful non chemical approaches to pest management and disease control is biological control which seeks a solution in terms of using living organisms to regulate the incidence of pests and pathogens providing a natural control while still maintaining the biological balance with the ecosystem This volume the first of two addresses the different types of biocontrol for different pests namely crop diseases weeds and nematodes and details the biology of both the pest and its enemies which is vital for efficient use of biological control The book has numerous contributors who are authorities in their fields and would be an asset to those who have interest in sustainable agriculture and crop productivity *Microorganisms in Soils: Roles in Genesis and Functions* Francois Buscot, Ajit Varma, 2007-01-04 Soils would not exist without the complex and heterogeneous activities of microorganisms For the third volume of Soil Biology an international board of renowned scientists shed light on the significant role of these organisms The following key topics are covered Microorganisms in bioerosion humification mineralization and soil aggregation Microbial energetics and microbes in biogeochemical processes such as carbon and nitrogen cycles and phosphorus bio availability Interactions in the mycorrhizosphere e g between mycorrhizal fungi and bacteria Impact of microbes on plant nutrient cycling and the possible effects of transgenic rhizospheres on soil fungi Functions of microbes in specific soil compartments such as soil surface or toxic metal polluted soils Regulation of microbial activities in functional domains that are influenced by biotic or abiotic factors Use of marker genes and isotopes as examples for modern techniques in soil microbiology **Advances in Microbial Biotechnology**, 1999 Published to honour Prof Krishna Gopal Mukerji for his endeavour in mycology plant pathology microbial ecology and microbial biotechnology

Mushrooms, Humans and Nature in a Changing World Jesús Pérez-Moreno, Alexis Guerin-Laguette, Roberto Flores Arzú, Fu-Qiang Yu, 2020-04-28 This book focuses on recent advances in our understanding of wild edible mycorrhizal fungi truffle and mushrooms and their cultivation In addition to providing fresh insights into various topics e g taxonomy ecology cultivation and environmental impact it also demonstrates the clear but fragile link between wild edible mushrooms and human societies Comprising 17 chapters written by 41 experts from 13 countries on four continents it enables readers to

grasp the importance of protecting this unique invaluable renewable resource in the context of climate change and unprecedented biodiversity loss The book inspires professionals and encourages young researchers to enter this field to develop the sustainable use of wild edible mushrooms using modern tools and approaches It also highlights the importance of protecting forested environments saving species from extinction and generating a significant income for local populations while keeping alive and renewing the link between humans and wild edible mushrooms so that in the future the sustainable farming and use of edible mycorrhizal mushrooms will play a predominant role in the management and preservation of forested lands

Carpet Monsters and Killer Spores Nicholas P. Money, 2004-04-08 Molds are everywhere we inhale their microscopic spores from birth to death But when an investigation in Ohio revealed that babies suffering from a serious lung illness had been exposed to a toxic black mold in their homes millions of Americans became nervous about patches of mold in their own basements and bathrooms Before long lawsuits were filed by the residents of mold contaminated homes in every state By failing to address water damage building contractors plumbers and insurance agents were held liable for exposing families to an unprecedented microbiological hazard The mold crisis soon developed into a fully fledged media circus In Carpet Monsters and Killer Spores Nicholas Money explores the science behind the headlines and courtroom dramas and profiles the toxin producing mold that is a common inhabitant of water damaged buildings Nicholas Money tells the most important mycological story since potato blight with his inimitable style of scientific clarity and dark humor

Agriculture and Food Production, 2001-01-24 Presenting a stimulating synthesis of rapidly growing research interests and publications by scholars in the field of applied mycology and biotechnology The surge of research and development activity in applied mycology and fungal biotechnology relates to the need and utility of fungi in many contexts These contexts are wide in scope and include agriculture animal and plant health biotransformation of organic or inorganic matter food safety composition of nutrients and micronutrients and human and animal infectious disease Containing a balanced treatment of principles biotechnological manipulations and applications of major groups of fungi in agriculture and food this book will serve as a practical resource for mycologists microbiologists biotechnologists bioengineers scientists from agri food industry biochemists botanists and agriculturists

Environmental Health Perspectives, 1999 **Fruit and Vegetable Diseases**

K.G. Mukerji, 2006-04-11 During the past twentieth century plant pathology has witnessed a dramatic advancement in management of plant diseases through in depth investigations of host parasite interactions integration of new concepts principles and approaches Our effort in brining out this book is to compile the achievements of modern times with regards to disease management of fruits which otherwise is widely dispersed in various scientific journals books and government reports and to develop future strategies for the millennium The chapters on individual crops are contributed by leading plant pathologists having authority in the respective field at international level Each chapter includes the diseases of economic importance describing their history distribution symptoms epidemiology and integrated management approaches being

adopted worldwide Each chapter is vividly illustrated to make it more understandable to students research and extension workers planners administrators and other end users citing pertinent references **American Book Publishing Record**, 1999 **Recent Advancement in White Biotechnology Through Fungi** Ajar Nath Yadav, Sangram Singh, Shashank Mishra, Arti Gupta, 2019-04-24 White biotechnology is industrial biotechnology dealing with various biotech products through applications of microbes The main application of white biotechnology is commercial production of various useful organic substances such as acetic acid citric acid acetone glycerine etc and antibiotics like penicillin streptomycin mitomycin etc and value added product through the use of microorganisms especially fungi and bacteria The value added products included bioactive compounds secondary metabolites pigments and industrially important enzymes for potential applications in agriculture pharmaceuticals medicine and allied sectors for human welfare In the 21st century techniques were developed to harness fungi to protect human health through antibiotics antimicrobial immunosuppressive agents value added products etc which led to industrial scale production of enzymes alkaloids detergents acids biosurfactants The first large scale industrial applications of modern biotechnology have been made in the areas of food and animal feed production agricultural green biotechnology and pharmaceuticals medical red biotechnology In contrast the production of bio active compounds through fermentation or enzymatic conversion is known industrial or white biotechnology The beneficial fungal strains may play important role in agriculture industry and the medical sectors The beneficial fungi play a significance role in plant growth promotion and soil fertility using both direct solubilization of phosphorus potassium and zinc production of indole acetic acid gibberellic acid cytokinin and siderophores and indirect production of hydrolytic enzymes siderophores ammonia hydrogen cyanides and antibiotics mechanisms of plant growth promotion for sustainable agriculture The fungal strains and their products enzymes bio active compounds and secondary metabolites are very useful for industry The discovery of antibiotics is a milestone in the development of white biotechnology Since then white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high valued nutraceuticals and pharmaceutical products The fungal strains and bio active compounds also play important role in the environmental cleaning This volume covers the latest research developments related to value added products in white biotechnology through fungi *Directory of Published Proceedings*, 2001 Biology of Macrofungi Bhim Pratap Singh, Lallawmsanga, Ajit Kumar Passari, 2019-01-24 Mushrooms are fleshy fungi with a high prospective for the production of secondary metabolites including extracellular enzymes with high agricultural and biotechnological significance Worldwide they are well recognized as supplementary foods due to their high nutritional values and their medicinal importance which includes their uses in exhibiting antioxidant and antimicrobial activities immune enhancer and to be effective for the treatment of several diseases including diabetes and few types of cancers as well According to recent studies extracellular enzymes produced by several white rot fungal strains such as *Phanerochaete chrysosporium* *Pleurotus sajor caju* and several mushrooms have shown a high capacity to decolorize dyes

that are very harmful for the environment Moreover wild macrofungi have the capability to synthesize nanoparticles which are more useful for the treatment of cancer gene therapy DNA analysis and biosensors Wild macrofungi are extremely important model for basic biology and commercial manufacture

Management of Nematode and Insect-Borne

Diseases Geeta Saxena, K. G. Mukerji, 2007-11-12 This unique authoritative resource provides detailed descriptions of the management of diseases caused by insects and by plant parasitic nematodes It includes in depth examinations of arthropod microbial control agents the biology and control of bacteria living and synthetic mulches and the genetic transformation of microbial control agents It also discusses the use of nematophagous fungi as a control agent biofumigation potato early dying complex host plant resistance and RNAi silencing In addition experts examine the use of genetically manipulated microbes and provide a comprehensive exploration of the biology and control of vectors

Fungi of Cameroon

Clovis Douanla-Meli, 2007 Fungi of Cameroon is a contribution towards assessing the current macrofungal diversity associated with the ecosystems of Cameroon's southern forests and evaluates the impact of deforestation and slash and burn on fungal communities and tracks the occurrence and changes to the fungal communities through the seasonal climatic variations rainfall The overall recorded species were new to the Mbalmayo forest reserve while 75 of the described species were new to Cameroon and eleven new mycobiota were described plus one combination The greatest fungal diversity was observed in forest stands declining towards fallows and cropland A distinct reduction of the diversity of wood and litter dependent fungal species can be observed where land conversion takes place which is a definite threat to fungal species As expected seasonal variations fundamentally influence and govern the fruition and composition of the fungal communities studied

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Introduction

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