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Endophytic Fungi
 Abiotic Stress Adaptation in Plants
 Microbial Endophytes
 Phytochemical Techniques (2nd Revised And Enlarged Edition)
 Defensive Mutualism in Microbial Symbiosis
 Microbial Endophytes
 Handbook of Antioxidants for Food Preservation
 Endophytic Fungi
 Tall Fescue for the Twenty-first Century
 Phytochemicals
 Fungi and Fungal Metabolites for the Improvement of Human and Animal Nutrition and Health
 Freeze-Drying
 Endophytes for a Growing World
 Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria
 Endophytes and Secondary Metabolites
 Advances in Endophytic Research
 Biocomplexity of Plant-Fungal Interactions
 Antioxidants in Food
 Thin Layer Chromatography in Phytochemistry
 Fungal Endophytes in Plants
 Conservation of Medicinal Plants
 Microbial Ecology of Leaves
 Diversity and Benefits of Microorganisms from the Tropics
 Microbial Endophytes
 Microbial Secondary Metabolites: Recent Developments and Technological Challenges
 A Manual of Soil Fungi
 Microbiology of the Phyllosphere
 Microbial Root Endophytes
 Looking at Life Through a Biblical Lens
 Bioprospecting of Microorganism-Based Industrial Molecules
 Gene Expression Systems in Fungi: Advancements and Applications
 Advances in Endophytic Fungal Research
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SULLIVAN BARRON

[Endophytic Fungi](#) New India Publishing Agency

Endophytic fungi are important biotechnological tools because they produce many secondary metabolites. However, to access this important source of bioactive molecules, it is essential to explore the diversity of endophytic fungi and catalog their species richness in different ecosystems. This book reviews the diversity, characterisation and biocontrol of endophytic fungi.

Abiotic Stress Adaptation in Plants Woodhead Publishing

This is the first book dedicated to the interactions of non-mycorrhizal microbial endophytes with plant roots. The phenotypes of these interactions can be extremely plastic, depending on environmental factors, nutritional status, genetic disposition and developmental stages of the two partners. This book explores diversity, life history strategies, interactions, applications in agriculture and forestry, methods for isolation, cultivation, and both conventional and molecular methods for identification and detection of these endophytes.

Microbial Endophytes Springer Science & Business Media

Antioxidants and their mechanisms of action; Food factors as antioxidants; Coronary heart disease; Malignant disease; Other diseases; Indicators of

oxidative stress; Consumer issues.

Phytochemical Techniques (2nd Revised And Enlarged Edition) Cambridge University Press

Microbial Endophytes: Prospects for Sustainable Agriculture discusses the practical and theoretical aspects regarding the use of endophytic microorganisms in agriculture, providing insights on the biotechnological applications associated with long-term crop production. Chapters deal with the various aspects of endophytic microorganisms, including isolation, enumeration, characterization procedures, diversity analysis, and their role as biofertilizer, biocontrol agent and microbial inoculants. Framed to discuss the present and future potential of microbial endophytes in biotic and abiotic stress management, bioremediation, bioactive compounds production, and in nanotechnology, this book provides a single-volume resource that will be valuable to academics and researchers interested in microbiology, agricultural sciences and biotechnology. - Explores aspects of sustainable agriculture by using endophytic microorganism such as bacteria, fungi and actinobacteria - Presents insights into the use of endophytes as biofertilizer and biocontrol agents in sustainable agriculture - Relates endophyte organisms and nano-technology

Defensive Mutualism in Microbial Symbiosis CRC Press

Examining intercellular infections in certain plant species that lead to a symbiotic relationship between the host and its endophytic microbes, this volume demonstrates the ability of many types of endosymbionts, acting as a unit with hosts to better survive, compete and reproduce. Practical applications of such endophytes are also discussed, for e

Microbial Endophytes Academic Press

Endophytic Fungi: The Full Story of the Untapped Treasure covers the developments in endophytic fungal research from beginning to the end by the eminent researchers involved in the field. It sheds light on the endophytic fungal current research, challenges, and future possibilities, the trending recent topics in the plant-fungal endophytes' biodynamics for sustainable development of bioproducts and its applications are supported in large-scale biosynthesis of industrially and pharmaceutical important biomolecules. Endophytic Fungi: The Full Story of the Untapped Treasure highlights the bioprospecting and applied aspects of endophytic fungal communities from diverse hosts and discusses the practical applications of such endophytes in detail. It also reviews recent strategies on alternative sustainable sources of medicines such as secondary metabolites of fungi instead of over collection of plants under prohibiting of biodiversity conventions. The uniqueness of this book is the inclusion of updated bioinformatics-based strategies and its importance in bioactive molecules produced by endophytic fungi. The book addresses one of the most eminent issues in this field: how to translate the potential that endophytic fungi hold in stable practical application. - Covers major concepts of plant-fungi interaction, biodiversity of endophytic fungi from diverse and biotechnological applications for sustainable development - Is extensively illustrated and clearly written, using easy-to-understand language, sharing the latest developments and potential of fungal products for various applications - Sheds light on the endophytic fungal current research, challenges, and future possibilities

Handbook of Antioxidants for Food Preservation John Wiley & Sons

This book is a printed edition of the Special Issue "Fungal Endophytes in Plants" that was published in JoF

Endophytic Fungi Springer

In recent years there has been significant attention paid on the endophytic research by various groups working within this domain. Mutualistic endophytic microbes with an emphasis on the relatively understudied fungal endophytes are the focus of this special book. Plants are associated with micro-organisms: endophytic bacteria and fungi, which live inter- and intra-cellularly without inducing pathogenic symptoms, but have active biochemical and genetic interactions with their host. Endophytes play vital roles as plant growth promoters, biocontrol agents, biosurfactant producers, enzymes and secondary metabolite producers, as well as providing a new hidden repertoire of bioactive natural products with uses in pharmaceutical, agrochemical and other biotechnological applications. The increasing interest in endophytic research generates significant progress in our understanding of the host-endophyte relationship at molecular and genetic level. The bio-prospection of microbial endophytes has led to exciting possibilities for their biotechnological application as biocontrol agent, bioactive metabolites, and other useful traits. Apart from these virtues, the microbial endophytes may be adapted to the complex metabolism of many desired molecules that can be of significant industrial applications. These microbes can be a useful alternative for sustainable solutions for ecological control of pests and diseases, and can reduce the burden of excess of chemical fertilizers for this purpose. This book is an attempt to review the recent development in the understanding of microbial endophytes and their potential biotechnological applications. This is a collection of literature authored by noted researchers having signatory status in endophytic research and summarizes the development achieved so far, and future prospects for further research in this fascinating area of research.

Tall Fescue for the Twenty-first Century Springer

The purpose of this book was not to provide a comprehensive overview of the vast arena of how fungi and fungal metabolites are able to improve human and animal nutrition and health; rather, we, as Guest Editors, wished to encourage authors working in this field to publish their most recent work in this rapidly growing journal in order for the large readership to appreciate the full potential of wonderful and beneficial fungi. Thus, this Special Issue welcomed scientific contributions on applications of fungi and fungal metabolites, such as bioactive fatty acids, pigments, polysaccharides, alkaloids, terpenoids, etc., with great potential in human and animal nutrition and health.

Phytochemicals Woodhead Publishing

The Book Is Designed To Place A Tool In The Hands Of Investigators That Will Enable Them To Identify The Soil Fungi Which They May Encounter In The Course Of Their Work. It Brings Together From Many Scattered Points Descriptions Of The Fungi Which Have Been Reported As Isolated From The Soil, Together With Keys To Aid In Identifying The Fungi In Hand. Contents Chapter 1: Phycmycetes; Chapter 2: Ascomycetes; Chapter 3: Fungi Imperfecti; Chapter 4: Mycelia Sterilia.

Fungi and Fungal Metabolites for the Improvement of Human and Animal Nutrition and Health Frontiers Media SA

This volume focuses on integrated pest and disease management (IPM/IDM) and biocontrol of some key diseases of perennial and annual crops. It continues a series originated during a visit of prof. K. G. Mukerji to the CNR Plant Protection Institute in Bari (Italy), in November 2005. Both editors aim at a series of five volumes embracing, in a multi-disciplinary approach, advances and achievements in the practice of crop protection, for a wide range of plant parasites and pathogens. Two volumes of the series were already produced, dedicated to general concepts in IPM and to management and biocontrol of nematodes of grain crops and vegetables. This Volume deals, in particular, with diseases due to bacteria, phytoplasma and fungi. Every day, in any agroecosystem, farmers face problems related to plant diseases. Since the beginning of agriculture, indeed, and probably for a long time in the future, farmers will continue to do so. Every year, plant diseases cause severe losses in the global production of food and other agricultural commodities, worldwide. Plant diseases are not limited to episodic events occurring in single farms or crops, and should not be regarded as single independent cases, affecting only farms on a local scale. The impact of plant disease epidemics on food shortage ignited, in the last two centuries, deep cultural, social and demographic changes, affecting million human beings, through i. e. migration, death and hunger.

Freeze-Drying Daya Books

This book illustrates the multiple roles of fungi in everyday life. Fungi are the large group of organisms with tremendous diversity and economic importance. Their ability to produce commercially efficient useful products makes them the vulnerable sustainable tool for the future generation. This

book describes a systems approach and provides a means to share the latest developments and advances about the benefits of fungi including their wide application, traditional uses, modern practices, along with designing of strategies to harness their potential. The chapters are organized with data, providing information related to different sustainable aspects of fungi in agriculture, its cultivation and conservation strategies, industrial and environmental utilization, advanced bioconversion technologies and modern biotechnological interventions. Updated information and current opinion related to its application for sustainable agriculture, environment, and industries as futuristic tools have been presented and discussed in different chapters. The book also elucidates a comprehensive yet a representative description of the challenges associated with the sustained application of fungi to achieve the goals of sustainability.

Endophytes for a Growing World Wallingford [England] : CABI Pub.

This completely updated and enlarged third edition of the classic text adopts a practical approach to describe the fundamentals of freeze-drying, backed by many explanatory examples. Following an introduction to the fundamentals, the book goes on to discuss process and plant automation as well as methods to transfer pilot plant qualifications and process data to production. An entire section is devoted to a large range of different pharmaceutical, biological, and medical products. New to this edition are chapters on antibodies, freeze-dry microscopy, TEMPRIS, microwave freeze-drying, spray freeze-drying, and PAT. Their many years of experience in freeze-drying enable the authors to supply valuable criteria for the selection of laboratory, pilot and production plants, discussing the advantages, drawbacks and limitations of different plant designs. Alongside guidelines for the evaluation and qualification of plants and processes, the author also includes a troubleshooting section.

Integrated Management of Diseases Caused by Fungi, Phytoplasma and Bacteria Springer Science & Business Media

This volume sheds new light on the immense potential of medicinal plants for human health from different technological aspects. It presents new research on bioactive compounds in medicinal plants that provide health benefits, including those that have proven especially effective in treating and managing diabetes mellitus and hypertension. It looks at the medicinal properties, antioxidant capacity, and antimicrobial activity of plants and provides scientific evidence on the use of medicinal plants in the treatment of certain diseases. Many of the plants described in the chapters are easily accessible and are believed to be effective with fewer side effects in comparison to modern drugs in the treatment of different diseases.

Endophytes and Secondary Metabolites ASA-CSSA-SSSA

Discover a comprehensive and current overview of microbial bioprospecting written by leading voices in the field In Bioprospecting of Microorganism-Based Industrial Molecules, distinguished researchers and authors Sudhir P. Singh and Santosh Kumar Upadhyay deliver global perspectives of bioprospecting of biodiversity. The book covers diverse aspects of bioprospecting of microorganisms demonstrating biomass value of nutraceutical, pharmaceutical, biomedical, and bioenergetic importance. The authors present an amalgamation of translational research on bioresource utilization and ecological sustainability that will further the reader's knowledge of the applications of different microbial diversity and reveal new avenues of research investigation. Readers will also benefit from: A thorough introduction to microbial biodiversity and bioprospecting An exploration of anti-ageing and skin lightening microbial products and microbial production of anti-cancerous biomolecules A treatment of UV protective compounds from algal biodiversity and polysaccharides from marine microalgal sources Discussions of microbial sources of insect toxic proteins and the role of microbes in bio-surfactants production Perfect for academics, scientists, researchers, graduate and post-graduate students working and studying in the areas of microbiology, food biotechnology, industrial microbiology, plant biotechnology, and microbial biotechnology, Bioprospecting of Microorganism-Based Industrial Molecules is an indispensable guide for anyone looking for a comprehensive overview of the subject.

Advances in Endophytic Research CRC Press

A detailed discussion of the need to conserve medicinal plants and their environments.

Biocomplexity of Plant-Fungal Interactions Resource Publications (CA)

This book addresses the diversity of tropical microorganisms and its applications in agriculture, renewable energy production and environmental protection. It covers several tropical habitats such as rain forests, mangroves, sea and river waters and describes how microorganisms isolated from these regions can be used to control insects and plant diseases, to improve sugar cane and biofuels production among other applications. The book also aims to bring researchers' attention to the potential of tropical microorganisms for biotechnological purposes, an area that is still far from being well explored.

Antioxidants in Food Oxford University Press

Thin layer chromatography (TLC) is increasingly used in the fields of plant chemistry, biochemistry, and molecular biology. Advantages such as speed, versatility, and low cost make it one of the leading techniques used for locating and analyzing bioactive components in plants. Thin Layer Chromatography in Phytochemistry is the first source

Thin Layer Chromatography in Phytochemistry Springer

The leaf surface or phyllosphere is a major habitat for microorganisms. Microbes on or within leaves play important roles in plant ecology, and these microbes can be manipulated to enhance plant growth or reduce plant disease. This book presents a number of critical reviews by internationally recognized experts on the microbial ecology of leaves. Topics include methods of assessment of microbial populations on leaf surfaces, leaves as reservoirs of ice nucleation phenomenon, and leaves as microbial habitats in both aquatic and terrestrial environments. The book will be of interest to students and scientists in numerous disciplines, including botany, aerobiology, meteorology, ecology, agriculture, and microbiology.

Fungal Endophytes in Plants John Wiley & Sons

Discusses the role of endophytes in food security, forestry and health. It outlines their general biology, spanning theory to practice.

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