

Fungal Biology

Juan-Francisco Martín
Carlos García-Estrada
Susanne Zeilinger *Editors*

Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites

 Springer

Biosynthesis And Molecular Genetics Of Fungal Secondary Metabolites Fungal Biology

**Nancy Keller,Jonathan Palmer,Ozgur
Bayram**



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Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Juan-Francisco Martín, Carlos García-Estrada, Susanne Zeilinger, 2014-09-09 This volume describes the more relevant secondary metabolites of different fungi with current information on their biosynthesis and molecular genetics Bolstered with color illustrations and photographs the book describes the possible application of molecular genetics to directed strain improvement in great detail The needs for future developments in this field are also discussed at length Written by authorities in the field Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites provides a cutting edge perspective on fungal secondary metabolism and underlying genetics and is a valuable resource for scientists researchers and educators in the field of fungal biology

Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites, Volume 2 Susanne Zeilinger, Juan-Francisco Martín, Carlos García-Estrada, 2015-06-15 Fungi produce many chemically diverse secondary metabolites whose biological roles largely remain elusive Within the increasing number of sequenced fungal genomes several important genes involved in secondary metabolite formation have been identified Most of these genes are clustered and their coordinated transcription is controlled in a complex way by both narrow pathway specific regulators as well as broad global transcription factors responsive to environmental cues In recent years it was discovered many of the newly identified gene clusters are silent under laboratory conditions suggesting that the biosynthetic potential of fungi is far from being exploited Besides identifying novel bioactive metabolites from still unexplored sources the activation of these gene clusters by several approaches may result in the discovery of new substances with antibiotic and pharmaceutical benefits This book covers recent advances in the field of fungal secondary metabolisms ranging from methodologies to biological aspects and will include the latest knowledge on fungal molecular biology genomics and metabolomics With the related volume by Professor Juan Francisco Martin where the most relevant and well studied fungal secondary metabolites are compiled this book provides a comprehensive overview of the state of the art of research on fungal secondary metabolites

Fungal Jewels: Secondary Metabolites Nancy Keller, Jonathan Palmer, Ozgur Bayram, 2017-04-10 Fungal natural products are friends and foes of humans such as deleterious mycotoxins cytotoxic carcinogenic compounds or beneficial compounds such as antibiotics fungicides insecticides antiviral and antitumor metabolites Understanding fungal diversity and estimation of fungal species on our planet poses a great challenge to researchers This complexity is further multiplied by secondary metabolite diversity of fungi which requires interdisciplinary studies It is extremely important to understand the fungal secondary metabolism to stop human animal and plant diseases caused by fungi and harvest their valuable metabolites Furthermore many secondary metabolite gene clusters are silenced under laboratory conditions It is vital to develop effective methods to activate those clusters in order to discover novel potent metabolites This e book is a compilation of original review articles contributed by leading fungal secondary metabolite researchers with a wide range of expertise Important

aspects of fungal secondary metabolism including regulation genome mining evolution synthetic biology and novel methods have been discussed This book will be a great source to those people who are interested in understanding overall structure diversity and regulation of production of these tiny but precious chemicals **Fungal Biology and Related Diseases**

Marcos Dias Pereira, Allan J. Guimaraes, Livia Kmetzsch, 2022-04-26 Fungal Biotechnology Arshad Farid, Gagan Preet, 2025-09-11 This book presents diverse applications of fungi in medical pharmaceutical and environmental sciences It discusses the intricate processes involved in fungal metabolite production bioactive compound discovery and genetic engineering highlighting their critical roles in addressing global challenges such as chronic diseases drug development and environmental sustainability This book examines the growing importance of fungi in the biopharmaceutical industry including their use in immunotherapy vaccine development and precision medicine while also exploring the novel applications of fungal nanobiotechnology in drug delivery systems The chapters explore challenges in antifungal drug development and food safety particularly regarding mycotoxins and offer practical insights into diagnostic techniques for fungal infections This book also addresses the global regulatory standards for fungal products and the ethical considerations surrounding the advancement of fungal biotechnology Engineering the Microbial Platform for the Production of Biologics and Small-Molecule Medicines

Dipesh Dhakal, Eung-Soo Kim, Mattheos Koffas, 2019-12-23 *Fungal Siderophores* Kalyani Dhusia, Kalpana Raja, Pramod Ramteke, 2021-02-08 In the past few decades it has been realized through research that fungal siderophores epitomize the uptake of iron as well as other essential elements like zinc magnesium copper nickel and arsenic Understanding the chemical structures of different fungal siderophores and the membrane receptors involved in uptake of mineral ions has opened new areas for research In this edited volume recent research is presented on fungal siderophores in one comprehensive volume to provide researchers a strong base for future research Siderophores are the low molecular weight high affinity iron chelating compounds produced by bacteria and fungi They are responsible for transporting iron across the cell membrane Fungi produce a range of hydroxamate siderophores involved in the uptake of essential elements in almost all microorganisms and plants In recent years siderophores have been used in molecular imaging applications to visualize and understand cellular functions which thus provide an opportunity to identify new drug targets Therefore knowledge of fungal siderophores has become vital in current research Siderophores have received much attention in recent years because of their potential roles and applications in various research areas Their significance in these applications is because siderophores have the ability to bind a variety of metals in addition to iron and they have a wide range of chemical structures and specific properties For instance siderophores function as biocontrols biosensors and bioremediation and chelation agents in addition to their important role in weathering soil minerals and enhancing plant growth This book focuses on siderophores with the following significant points It discusses leading state of the art research in all possible areas on fungal siderophores The contributors are well known and recognized authorities in the field of fungal siderophores It discusses a projection of practical

applications of fungal siderophores in various domains This is the first book exclusively on fungal siderophores In this comprehensive edited volume we show leading research on fungal siderophores and provide the most recent knowledge of researchers work on siderophores This book presents in depth knowledge on siderophores to researchers working in areas of health sciences microbiology plant sciences biotechnology and bioinformatics

Fungal Resources for Sustainable Economy Ishwar Singh,Vijay Rani Rajpal,Shrishail S. Navi,2023-04-07 This edited book provides a comprehensive account of the new developments in various facets of fungal biology related to the impact and application of fungi on the sustainable economy The book consists of 24 chapters distributed under five sections written by active researchers and academicians from India and abroad The five sections of the book are 1 Fungi in Sustainable Economy 2 Fungal Resources Current and Potential Industrial Applications 3 Fungal Resources Current and Potential Agricultural Applications 4 Fungi and their Secondary metabolites Implications and 5 Fungi Burden to health and Indoor Environment The book explores the utility of fungi as food enzymes organic compounds nutraceuticals pharmaceuticals and agricultural productivity promoter It also highlights the negative fungal impacts on food production health and environment The book is useful to postgraduate students studying mycology plant pathology crop protection agricultural sciences and plant sciences In addition scientists involved in biological and agricultural research crop management and various industries that manufacture or utilize fungal products on a small to large scale shall also find the book helpful

Laboratory Protocols in Fungal Biology Vijai Kumar Gupta,Maria G. Tuohy,Manimaran Ayyachamy,Kevin M. Turner,Anthonia O'Donovan,2012-12-09 *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 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 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 Mart n Garc a Estrada Zeilinger Biosynthesis and Molecular Genetics of Fungal Secondary Metabolites Zeilinger Mart n Garc a 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 Microscopy in Mycology

Industrially Important Fungi for Sustainable Development Ahmed M. Abdel-Azeem, Ajar Nath Yadav, Neelam Yadav, Minaxi Sharma, 2021-12-02 Fungi are an essential fascinating and biotechnologically useful group of organisms with an incredible biotechnological potential for industrial exploitation Knowledge of the world's fungal diversity and its use is still incomplete and fragmented There are many opportunities to accelerate the process of filling knowledge gaps in these areas The worldwide interest of the current era is to increase the tendency to use natural substances instead of synthetic ones The increasing urge in society for natural ingredients has compelled biotechnologists to explore novel bioresources which can be exploited in industrial sector Fungi due to their unique attributes and broad range of their biological activities hold great promises for their application in biotechnology and industry Fungi are an efficient source of antioxidants enzymes pigments and many other secondary metabolites The large scale production of fungal pigments and their utility provides natural coloration without creating harmful effects on entering the environment a safer alternative use to synthetic colorants The fungal enzymes can be exploited in wide range of industries such as food detergent paper and also for removal toxic waste This book will serve as valuable source of information as well as will provide new directions to researchers to conduct novel research in field of mycology Volume 2 of *Industrially Important Fungi for Sustainable Development* provides an overview to understanding bioprospecting of fungal biomolecules and their industrial application for future sustainability It encompasses current advanced knowledge of fungal communities and their potential biotechnological applications in industry and allied sectors The book will be useful to scientists researchers and students of microbiology biotechnology agriculture molecular biology and environmental biology

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