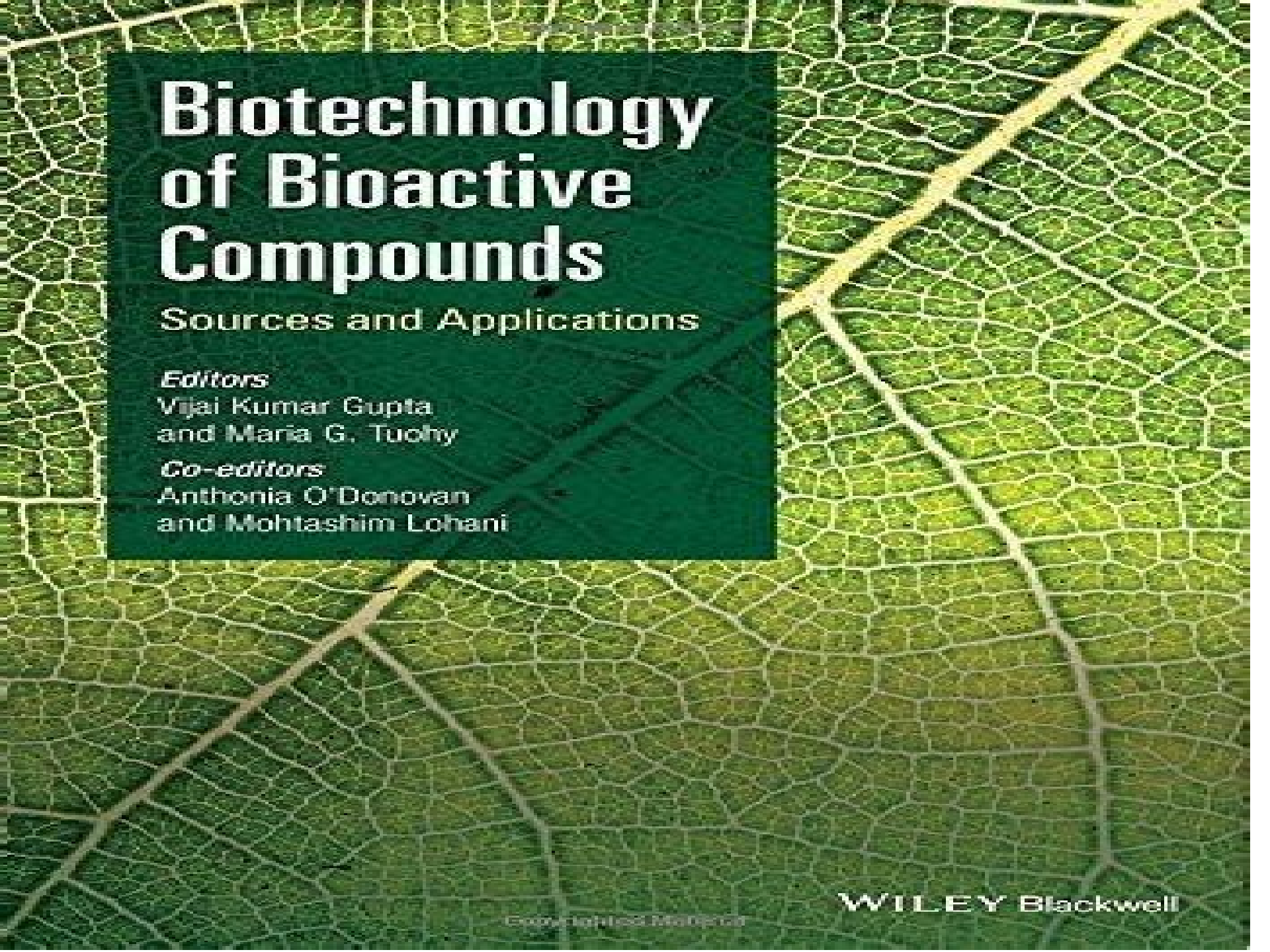




Biotechnology of Bioactive Compounds

Sources and Applications

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Biotechnology Of Bioactive Compounds Sources And Applications

**Sudhir Pratap Singh, Santosh Kumar
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Biotechnology Of Bioactive Compounds Sources And Applications:

Biotechnology of Bioactive Compounds Vijai Kumar Gupta, Maria G. Tuohy, Anthonia O'Donovan, Mohtashim Lohani, 2015-01-22 Bioactive compounds play a central role in high value product development in the chemical industry. Bioactive compounds have been identified from diverse sources and their therapeutic benefits, nutritional value and protective effects in human and animal healthcare have underpinned their application as pharmaceuticals and functional food ingredients. The orderly study of biologically active products and the exploration of potential biological activities of these secondary metabolites, including their clinical applications, standardization, quality control, mode of action and potential biomolecular interactions, has emerged as one of the most exciting developments in modern natural medicine. Biotechnology of Bioactive Compounds describes the current stage of knowledge on the production of bioactive compounds from microbial, algal and vegetable sources. In addition, the molecular approach for screening bioactive compounds is also discussed, as well as examples of applications of these compounds on human health. The first half of the book comprises information on diverse sources of bioactive compounds ranging from microorganisms and algae to plants and dietary foods. The second half of the book reviews synthetic approaches as well as selected bioactivities and biotechnological and biomedical potential. The bioactive compounds profiled include compounds such as C-phycocyanins, glycosides, phytosterols and natural steroids. An overview of the usage of bioactive compounds as antioxidants and anti-inflammatory agents, anti-allergic compounds and in stem cell research is also presented, along with an overview of the medicinal applications of plant-derived compounds. Biotechnology of Bioactive Compounds will be an informative text for undergraduate and graduate students of bio-medical chemistry who are keen to explore the potential of bioactive natural products. It also provides useful information for scientists working in various research fields where natural products have a primary role. *Marine Bioactive Compounds* Maria Hayes, 2011-11-19 The aim and scope of this book is to highlight the sources, isolation, characterization and applications of bioactive compounds from the marine environment and to discuss how marine bioactive compounds represent a major market application in food and other industries. It discusses sustainable marine resources of macroalgal origin and gives examples of bioactive compounds isolated from these and other resources, including marine by-product and fisheries waste streams. In addition, it looks at the importance of correct taxonomic characterization. **Biotechnological Intervention in Production of Bioactive Compounds** Jyoti Devi, 2025-02-25 This book provides an overview of the state of our understanding regarding the biosynthesis of bioactive compounds from plant and microbial sources. Additionally, examples of how these compounds have been used in food, agriculture and human health are provided, as well as the biotechnological approach for screening and characterizing bioactive compounds. In the pharmaceuticals, nutraceuticals and agrochemicals industries, bioactive molecules are crucial to the production of high value products. The discovery of bioactive chemicals from diverse sources has supported their use as medications, functional food ingredients, herbicides and insecticides due to their

medicinal advantages nutritional importance and protective impacts in healthcare and agriculture The systematic investigation of biologically active products and the prospective biological activities of these bioactive compounds comprising their medical uses standardization quality control mode of action and possible biomolecular interactions are among the greatest sensational expansions in modern natural medication and healthcare This book is a useful resource for graduate and undergraduate biomedical chemistry and agriculture students who are interested in learning more about the possibilities of bioactive natural products This book is useful to researchers in a variety of scientific domains where natural products are important

Bioactive Compounds Rocco Porter, Nigel Parker, 2017 The study of bioactive compounds has received a considerable rising interest over the last three decades given their biological activity as reported by scientific evidence linking these substances to the prevention of several types of diseases Chapter One is aimed at making a wide description of sources properties and applications of bioactive compounds Chapter Two summarizes content of bioactive compounds antioxidants polyphenols flavonoids phenolic acids vitamins mineral compounds and others of adaptogenic plants including antidepressant antioxidant antiinflammatory antimicrobial and anticancer activities as well as their potential to prevent several disorders Chapter Three summarizes and discusses the recent updates and progress made so far on bioactive compounds from cyanobacteria and their therapeutic importance on human health The influence of various bioactive compounds present in plant systems on the dehydration process under thermal stress was investigated in Chapter Four Chapter Five reviews the scientific literature about the structure of PEs as well as their natural sources and health effects Chapter Six focuses on the most recent articles about phenolic compounds their sources properties and applications The aim of Chapter Seven was to characterize the composition and antioxidant activity of new Brazilian *Coffea arabica* cultivars and correlate this information with the genetic background of the coffee plants and the sensory characteristics of the coffee brews Chapter Eight summarizes and updates the current knowledge about the pharmacological properties of the naphthodianthrone hypericin and pseudohypericin and to discuss their main medical application photodynamic therapy in several areas In order to further highlight the importance of Brazil's fruitful diversity and its bioactive potential a number of items related to Brazilian native fruits will be addressed in Chapter Nine including their biomes of origin composition of bioactive compounds and potentials as well as their limitations and future prospects Chapter Ten discusses the benefits of using fruits containing bioactive compounds in whole wheat cookies with particular attention to blackberries

Current Developments in Biotechnology and Bioengineering Mohammad Taherzadeh, Jorge Ferreira, Ashok Pandey, 2022-11-18 Filamentous Fungi Biorefinery the latest release in the Current Developments in Biotechnology and Bioengineering series builds on knowledge on the classification of filamentous fungi and presence and roles played in ecosystems The importance of filamentous fungi is then further corroborated through a description of their present applications in biotechnological processes Knowledge on fungal biology is extended through discussion on structure and composition together with a

description of growth potentialities of filamentous fungi in on a wide range of substrates In addition the morphology of filamentous fungi is then described and its implications during integration in industrial processes is discussed The book then provides an overview on the use of filamentous fungi for the production of a wide range of value added products including feed and food products alcohols organic acids pigments enzymes antibiotics and biopolymers All provided state of arts are extended to a description of the present degree of application of filamentous fungi towards the production of those products using low value substrates identification of research gaps and proposes future research avenues Presents the first book dedicated to the use of filamentous fungi for process development within waste management Discusses the transfer of research knowledge into industrial processes and marketable products Includes industrial applications of filamentous fungi towards valorization of low value substrates Provides up to date knowledge on research and application fields that can benefit from the integration of filamentous fungi Industrial Biotechnology Christoph Wittmann,James C. Liao,2017-03-06

The latest volume in the Advanced Biotechnology series provides an overview of the main product classes and platform chemicals produced by biotechnological processes today with applications in the food healthcare and fine chemical industries Alongside the production of drugs and flavors as well as amino acids bio based monomers and polymers and biofuels basic insights are also given as to the biotechnological processes yielding such products and how large scale production may be enabled and improved Of interest to biotechnologists bio and chemical engineers as well as those working in the biotechnological chemical and food industries Handbook of Research on Food Science and Technology Mónica Lizeth Chávez-González,José Juan Buenrosto-Figueroa,Cristóbal N. Aguilar,2021-03-11 This Handbook of Research in Food Science and Technology consists of three volumes focusing on food technology and chemistry food biotechnology and microbiology and functional foods and nutraceuticals The volumes highlight new research and current trends in food science and technology looking at the most recent innovations emerging technologies and strategies focusing on taking food design to sustainable levels In particular the handbooks includes relevant information on the modernization in the food industry sustainable packaging food bioprocesses food fermentation food microbiology functional foods and nutraceuticals natural products nano and microtechnology healthy product composition innovative processes bioprocesses for utilization of by products development of novel preservation alternatives extending the shelf life of fresh products alternative processes requiring less energy or water among other topics Industrial Microbiology and Biotechnology Pradeep Verma,2024-06-25

This book provides an in depth exploration of microbial biodiversity and its crucial role in diverse biotechnological and industrial sectors It covers topics such as the integration of molecular approaches for identifying industrially significant strains omics roles in the production of bioproducts and modern genetic engineering techniques It discusses biostatistical investigations and the impact of microbial biotechnology on healthcare and emerging contaminants It highlights the significance of food microbiology fermentation and the latest technologies in improving human health Additionally the book

delves into emerging trends in oligosaccharide production biobased approaches for a sustainable future and the importance of microbial biomolecules and secondary metabolites It also explores the identification and production of industrially significant biocatalysts enzymes the valorization of agro industrial waste using microorganisms for green energy generation and the development of bioreactor systems for the biobased economy The book covers advancements in solid gaseous biofuels production impact assessment of synthetic microfiber pollution sustainable management strategies for waste management and the impact of emerging technologies in medical microbiology The book also discusses the development of healthcare products using nano biotechnological advancements the impact of novel remediation technology and the utilization of microbial products in biomaterial development It further explores microbial regulatory systems gene expression studies and the significance of mutations in microbial technology This book serves as a great reference for researchers environmentalists microbiologists biotechnologists and graduate post graduate students and doctoral students working on microbial biotechnology and industrial microbiology

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Extremophiles Ravi V. Durvasula, D. V. Subba Rao, 2018-01-09 Highly recommended by CHOICE Oct 2018 Extremophiles are nature s ultimate survivors thriving in environments ranging from the frozen Antarctic to abyssal hot hydrothermal vents Their lifeforms span bacteria to fishes and are categorized as halophiles from hypersaline environments acidophiles from acidic waters psychrophiles from cold habitats and thermophiles from warm waters *Extremophiles From Biology to Biotechnology* comprehensively covers the basic biology physiology habitats secondary metabolites for bioprospecting and biotechnology of these extreme survivors The chapters

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