

Microbial Transformation of Bioactive Compounds: v. 2

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Microbial Transformations Of Bioactive Compounds

F.W. Scheller, F. Schubert, J. Fedrowitz



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Microbial Transformations of Bioactive Compounds John P. Rosazza,1982 **Microbial Transformations of Bioactive Compounds** John P. Rosazza,1982 *MICROBIAL TRANSFORMATIONS OF BIOACTIVE COMPOUNDS* John P. Rosazza,1982-07 Volume 1 Notes on the historical development of microbial transformations The methodology of microbial transformations of organic compounds Microbial transformations of antibiotics Microbial transformation of important industrial hydrocarbons Microbial transformations of prostaglandins Volume 2 Microbial transformations as a means of preparing mammalian drug metabolites Transformations of xenobiotics by the intestinal microflora Microbial transformations of alkaloids Microbial transformations of cannabinoids Microbial transformations of pesticides **Microbial Transformations of Bioactive Compounds** ,1982 **Bioactive Compounds in Fermented Foods** Amit Kumar Rai,Anu Appaiah K. A.,2021-11-29 The volume reviews different types of bioactive components associated with food fermentation and their impact on human health The diversity of microorganism responsible for the production of different types of fermented foods and beverages includes bacteria yeasts and fungi Biotransformation of food constituent by microorganisms occurs during fermentation processes for the production of fermented food and in the gastrointestinal tract by gut microorganisms This biotransformation results in production of specific bioactive compounds that are responsible for a wide range of health benefits The bioactive compounds discussed in this book includes polyphenols bioactive peptides fibrinolytic enzymes gamma amino butyric acids GABA exopolysaccharides probiotic prebiotic symbiotic and antinutritional factors These bioactive compounds are responsible for health benefits such as antioxidant antihypertension antimicrobial cholesterol lowering anticancer obesity and antithrombotic properties Advanced research in the field of food fermentation and their health benefits have resulted in commercialization of some of the fermented foods as functional foods The traditional fermented foods consumed in different parts of the world and their health benefits are discussed in detail and the book concludes with recent advances in microbial transformation during gut fermentation and their impact on human health There has been increasing interest among researchers on the proposed title in the last decade and the book brings updated information on research and advances in different types of health benefits exhibited by bioactive compounds in a wide range of fermented foods **Bioprocessing of Plant In Vitro Systems** ,19?? Biotransformation studies on bioactive compounds: 25 years of interesting research at the ICCBS Mahwish Siddiqui,Atia-tul-Wahab,M. Iqbal Choudhary,Atta-ur-Rahman,2023-05-24 Biotransformation of natural synthetic and semi synthetic compounds has emerged as a frontier branch of chemical sciences that is progressively being applied in numerous fields In the present review we have summarized our biotransformation studies on bioactive compounds from 1997 to 2022 Various microbial and plant cell cultures were used for biocatalytic structural transformations We present here an overview of biotransformation of 53 compounds belonging to various classes of natural synthetic and semi synthetic compounds published in several leading journals The structures of the resulting

metabolites have been elucidated by detailed spectroscopic studies Oxidation reduction dehydrogenation chlorination aromatization methylation demethylation rearrangements etc were the main reactions that occurred during the biotransformation processes Many of the biotransformed products exhibited interesting biological activities Structural transformations in some cases have also led to improved pharmacokinetic profiles This review is aimed to provide a focused account of extensive work carried out in our laboratories in this field as well as the immense potential of biocatalytic transformations in organic chemistry

Introduction to Biocatalysis Using Enzymes and Microorganisms S. M. Roberts, 1995-01-27 This book gives an introduction to biotransformations the practice of harnessing biological catalysts for the preparation of useful chemicals

Semisynthesis of Bioactive Compounds and their Biological Activities Sasadhar Majhi, Sivakumar Manickam, 2023-11-25 Semisynthesis of Bioactive Compounds and their Biological Activities explores the potential benefits of semisynthetic derivatives obtained from nature Sections cover the natural distribution of parent compounds semisynthesis and biological properties of semisynthetic derivatives the applications of semisynthetic derivatives in diverse fields such as drug delivery food production and medicine an explanation of the current resistance mechanisms of antibiotics clinical applications of semisynthetic analogues the functions of plant alkaloids on human health potential agricultural biotechnology in semisynthetic derivatives and semisynthesis of natural products under greener conditions this book provides a comprehensive resource on the topics presented Sections include information about alternative sources of energy and superior greener technologies microwave sonochemistry alternative reaction media water supercritical CO₂ ionic liquids and alternative eco friendly catalysts biocatalysts This book will be an excellent resource for academicians researchers and students focusing on synthesis as well as the biological community and industry professionals in drug development Focuses on the current resistance mechanisms of antibiotics chemical derivatization of antibiotics and clinical applications of semisynthetic derivatives Includes discussion of the semisynthesis of natural products using green tools green solvents and eco friendly catalysts Illustrates the concept of toxicity the merits of transition metal free reactions and the semisynthesis of natural products by introducing the oxygen atom s under transition metal free conditions

Bioactive Natural Products (Part D) Atta-ur Rahman, 2000-11-03 Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement and many aspects of basic research programs are intimately related to natural products The significance therefore of the Studies in Natural Product Chemistry series edited by Professor Atta ur Rahman cannot be overestimated This volume in accordance with previous volumes presents us with cutting edge contributions of great importance

Biotransformations and Bioprocesses Mukesh Doble, Anil Kumar Kruthiventi, Vilas Ganjanan Gaikar, 2004-03-24 From the laboratory to full scale commercial production this reference provides a clear and in depth analysis of bioreactor design and operation and encompasses critical aspects of the biocatalytic manufacturing process It clarifies principles in reaction and biochemical engineering synthetic and biotransformation chemistry and biocell and enzy

Enzymes in Organic Synthesis Ruth Porter, Sarah Clark, 2009-09-14 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world *Current Medicinal Chemistry*, 1999-05

Frontiers in Biosensorics I F.W. Scheller, F. Schubert, J. Fedrowitz, 2013-03-11 Volume I provides an in depth discussion of the most recent developments of crucial biosensor components It concentrates on the interface between the analyte phase and the detector namely the implementation of novel recognition elements including nucleic acids and of leading edge technology in the construction of responsive thin layers Thus the reader can obtain a foretaste of achievable future progress in the field *Current Developments in Biotechnology and Bioengineering* Amit Kumar Rai, Sudhir P. Singh, Ashok Pandey, Christian Larroche, Carlos Ricardo Soccol, 2021-11-30 Approx 438 pages Approx 438 pages *New Frontiers in Screening for Microbial Biocatalysts* K. Kieslich, C.P. van der Beek, J.A.M. de Bont, W.J.J. van den Tweel, 1997-12-09 With screening and selection of biocatalysts being undervalued in Europe in comparison with USA and especially Japan the working parties Applied Biocatalysis and Microbial Physiology of the European Federation of Biotechnology decided to organise an international symposium entitled New Frontiers in Screening for Microbial Biocatalysts Novel screening techniques microbial biodiversity microbial physiology and molecular genetics were discussed to give better insights into possibilities and limitations of obtaining biocatalysts from nature These proceedings provide a comprehensive overview of the present state of the art in the field of biocatalysts screening

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively

to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume **Microorganisms** Miroslav Blumenberg, Mona Shaaban, Abdelaziz Elgaml, 2020-07-01

The recent breakthrough in microbial studies has applied next generation sequencing NGS a massive omics analysis to the composition and structure of microbial communities NGS can identify microbes without the need for their cultivation Their mere presence can be ascertained and often quantitated and even their metabolic capabilities of microbial constituents predicted This breakthrough led to an explosive growth in research on microbes Many important advances have been made in human health related studies Indeed gut microbial communities have been extensively analyzed and differences between healthy and diseased microbiomes have been determined Studies of the effects of changes of diet of antibiotic treatments and of probiotics have been published Specific attention has been devoted to human pathogens their mechanisms of causing disease and the potentials for their management and treatment Microbiome studies of natural habitats terrestrial and aquatic have also benefited from NGS methodology Increased understanding of the microbial communities has led to the use microbes as antagonists of pathogens i e as treatments Moreover novel uses of microbes in industrial processes either for synthesis of important compounds or for degradation and handling of waste are being devised In this volume chapters dealing with the cutting edge research in all these fields are presented **Advances in Applied Microbiology** ,1984-12-05

Advances in Applied Microbiology Microbial Mediation of Plant-Herbivore Interactions Pedro Barbosa, Vera A. Krischik, Clive G. Jones, 1991-09-03 Novel Aspects of Insect Plant Interactions Edited by Pedro Barbosa and Deborah K Letourneau Focusing on three trophic levels this study widens the current understanding of the ecological interactions between plants herbivores and their parasitoids and predators Emphasized are the mediating effects of plant derived allelochemicals on those interactions The book also covers microorganisms as mediators of intertrophic and intratrophic interactions theory and mechanisms plant effects via allelochemicals on the third trophic level and key roles of plant allelochemicals in survival strategies of herbivores 1988 0 471 83276 6 362 pp Plant Animal Interactions Evolutionary Ecology in Tropical and Temperate Regions Edited by Peter W Price Thomas M Lewinsohn G Wilson Fernandes and Woodruff W Benson An outgrowth of an international symposium on Evolutionary Ecology of Tropical Herbivores held at UNICAMP Brazil this unique collaborative effort from leading scientists worldwide is the first comparative analysis of the existing ecological systems of temperate and tropical regions In depth and timely the book s manifold analyses includes a discussion of tropical and temperate comparisons mutualistic relationships between plants and animals antagonistic relationships between plants and animals plant butterfly interactions specificity in plant utilization and community patterns in natural and agricultural systems Amply illustrated with 150 detailed graphics the book provides a fascinating visual tour of the flora and fauna described 1991 0 471 50937 X 639 pp Integrated Pest Management Systems and Cotton Production Edited by Raymond E Frisbie Kamal M El Zik and L Ted Wilson This work sheds light on the link between the thriving U S cotton crop

and integrated pest management It offers a unique theoretical and conceptual framework for studying the cotton IPM system Other relevant issues such as the development and use of pest models quantitative sampling principles in cotton IPM economic injury levels and thresholds for cotton pests and strategies and tactics for managing weeds plant pathogens nematodes and insects are also described Covering every facet of IPM technology this is a significant contribution to the literature of pest management 1989 0 471 81782 1 437 pp

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