

Advances in Biochemical Engineering/Biotechnology

Edited by A. Flechter

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L. A. Anderson, J. D. Phillipson, M. E. Roberts
Biosynthesis of Secondary Products by Cell Cultures
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Immobilized Plant Cells

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Production of Useful Plant Metabolites

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Plant Cell Culture

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Advances In Biochemical Engineering Volume 31 Plant Cell Culture:

Plant Cell and Tissue Culture for the Production of Food Ingredients Tong-Jen Fu, Gurmeet Singh, Wayne R. Curtis, 2012-12-06 Commercial development of cultured derived food ingredients has attracted international interest As consumers have become more health conscious in recent years the demand for natural food ingredients and disease preventative phytochemicals has increased tremendously Plant Cell and Tissue Culture provides an alternative method for controlled production of these products A wide range of food ingredients has been shown to be produced in culture Much progress has been made in advancing this technology to the point that large scale production has become possible This book is developed from the Symposium Plant Cell and Tissue Culture for Food Ingredient Production which was held on April 13 17 1997 at the American Chemical Society National Meeting in San Francisco CA In this book international experts in academia government and industry discuss current advances in the field of plant cell and tissue culture with special emphasis on its application for food ingredient production Topics related to various aspects of plant cell and tissue culture technology are discussed including overviews of recent advances in plant metabolic pathway studies process development for improving yields and bioreactor design and operation for large scale production Economic considerations and issues related to the commercial development of culture derived food ingredients are discussed Also included are the safety assessment schemes and regulatory frameworks set up by regulatory agencies around the world **Plant Tissue Culture** Masanaru

Misawa, 1994-01-01 **Biochemical Engineering and Biotechnology Handbook** Bernard Atkinson, Ferda Mavituna, 1991

Plant Vacuoles B. Marin, 2013-03-09 The papers in this book illustrating the present status of knowledge related to the vacuolar compartment of fungi and plants were presented at an Advanced Research Workshop entitled Plant Vacuoles Their Importance in Plant Cell Compartmentation and their Applications in Biotechnology held in Sophia Antipolis France on July 6 11 1986 The organizers were fortunate in being able to assemble representative leaders of all the above fields of research concerning this compartment These scientists from all over the world were invited to present their latest results and to exchange views and plans for continued research in this highly exciting field which is very important for the improving the industrial aspect of plant biotechnology related to the production of molecules with a high added value To ensure maximal flexibility and opportunity for discussion the chairmen of the various sessions were asked to introduce their respective topics after which they were given the freedom of organizing their sessions in a more or less improvised fashion with brief presentations of relevant new information by participants following a schedule fixed relatively shortly before the workshop This procedure proved to be highly successful giving rise to most productive and stimulating discussions among the representatives of the various fields **Oxygen Responses, Reactivities, and Measurements in Biosystems** S. N.

Mukhopadhyay, Dipak K. Das, 2020-08-18 Oxygen Responses Reactivities and Measurements in Biosystems meets the pressing needs of the twentieth century biotechnological and bioengineering sciences in covering oxic reactions and oxygen transport

phenomena in a single book This book is intended for teaching senior or graduate level courses and as a self study text for practicing biochemical and chemical engineers biotechnologists applied and industrial microbiologists cell biologists scientists involved in oxygen free radical research and others in related fields The text includes thought provoking numerical problems and short questions conventional biochemical engineering approaches and related concepts with mathematical formulations and analysis concepts of cell biology basic microbiology and applied biochemistry in oxy radical research practical approaches for the development of laboratory experiments and industrial design and an introduction of oxygen free radical chemistry to biotechnology and bioengineering

Immobilized Biocatalysts Winfried Hartmeier,2012-12-06

Biotechnological processes often require the use of immobilized biocatalysts This translation of the most successful German edition introduces the theoretical background of this rapidly growing field followed by a detailed description of the various techniques of immobilizing characterizing and using biocatalysts The comprehensive discussion of possible applications in industrial processes and in basic research results in a practical guide for everyone involved in these techniques Furthermore some selected experiments are added in order to facilitate the understanding of the theoretical reports

Secondary Products from Plant Tissue Culture Phytochemical Society of Europe,1990

Plants are superb synthesizers of organic compounds producing an extensive range of products from the simple building blocks of carbon dioxide water and inorganic ions These secondary products are widely used in commerce particularly the food and pharmaceutical industries Recent advances in the techniques of plant biotechnology and genetic engineering have increased the potential of plant cell cultures as an important source of these compounds Researchers are now beginning to understand the factors that control the expression and regulation of genes involved in the synthesis transport storage and metabolism of natural products This volume contains contributions from eminent researchers who provide an up to date review of current work in this field and detail the exciting advances now being made

Subject Guide to Books in Print ,2001 *Plant Biotechnology* M.W. Fowler,G.S. Warren,Murray Moo-Young,2013-10-22

Today it is generally accepted that one of the key areas of biotechnology for the next century will be in plant based biotechnology Biotechnology has created new opportunities for plant scientists with important applications to agriculture and forestry This reference text is divided into five sections for ease of presentation The first section focuses on the structure composition and functionality of plant cells and genes with particular emphasis on the cellular and molecular biology of plants and cultured cells Section two is concerned with the direct exploitation of cell cultures for the production of useful substances The third section deals with regeneration and propagation systems The fourth section considers the increasingly central area of genetic manipulation of plant cell systems The last section is on specific applications in plant biotechnology This reference work is a survey of these various facets of plant biotechnology The individual chapters and the follow up literature cited allow an easy access to the various subject areas and will hopefully stimulate interest in these rapidly moving and exciting fields of research

Bioprocesses and Engineering

,1989 **Plant Tissue Culture** Masanaru Misawa,1994 **Books in Series, 1876-1949** R.R. Bowker Company,1982
Growth and Product Formation in Plant Cell Suspension Cultures of Catharanthus Roseus and Dioscorea Deltoidea Denis Drapeau,1986 *Journal of Plant Biology* ,2000 **Plant Biotechnology, Commercial Prospects and Problems** R. L. M. Pierik,Jitendra Prakash,1993 Contributed articles **Plant Tissue Culture** Sant Saran Bhojwani,Vibha Dhawan,Edward Charles Cocking,1986 The tremendous accumulation of information on plant tissue culture is making it extremely difficult for anyone to keep fully abreast with the literature even in his own specialised area Therefore the authors have compiled a bibliography of plant tissue culture as a ready reference for those who are already working in this field and have also made the task easier for those who have become interested in plant tissue culture The idea of preparing the bibliography was conceived after completing the book *Plant Tissue Culture Theory and Practice* Elsevier 1982 Recognition of the various potential industrial applications of plant biotechnology has considerably enhanced the importance of plant tissue culture PTC as the latter holds a pivotal position in the realisation of the final goal of crop improvement via cell manipulation and multiplication It is also becoming increasingly popular in basic studies in plant sciences Consequently there has been an explosion in the literature on PTC since 1970 A distinctive feature of the present compilation is that it covers all aspects of PTC of higher plants including Gymnosperms *Microbial Enzymes as Potential Biotherapeutics in Human Healthcare* Dileep Francis,Sabu Abdulhameed,Jayachandran K,2025-08-04 This book comprehensively reviews the diverse potential of microbial enzymes with therapeutic applications covering their production purification and utilization It examines their roles in combating various diseases including inflammation bacterial infections cardiovascular conditions and thrombotic disorders The book highlights their pharmaceutical applications in drug formulation and bioactive compound production with the aim of enhancing drug bioavailability stability and efficacy Furthermore the book explores the potential of microbial fibrinolytic enzymes to revolutionize treatments for thrombotic disorders It also outlines the applications of microbial enzymes in targeting cancer cells emphasizing their pivotal role in innovative treatment modalities Additionally the book presents the therapeutic applications of microbial lipases from their use in lipid lowering medications to the creation of lipase based pharmaceuticals The chapters discuss the potential of microbial uricases in managing uric acid related disorders and the contribution of microbial enzymes in enhancing digestion and alleviating digestive disorders Finally the book delves into the vital role of regulatory authorities and intellectual property rights IPR in the commercialization of therapeutic microbial enzymes As such this book serves as a valuable resource for researchers professionals and students of microbiology biotechnology and pharmaceutical sciences Key Features Reviews the therapeutic potential of microbial enzymes and their production and purification Examines the roles of microbial enzymes in combating a wide range of diseases including inflammation bacterial infections cardiovascular conditions and thrombotic disorders Highlights the pharmaceutical applications of microbial enzymes focusing on drug formulation and the production of bioactive compounds to enhance drug

bioavailability stability and efficacy Explores the therapeutic applications of microbial lipases from lipid lowering medications to the creation of lipase based pharmaceuticals Presents the vital role of regulatory authorities and intellectual property rights IPR in the commercialization of therapeutic microbial enzymes *Biotechnology Methods* A. Fiechter,1987

Purification of Alpha-1-antitrypsin Using a Three-step Chromatography Process Elizabeth Zapalac,2003 *Bioprocesses and Engineering* Norman Hardman,1989-12-08

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