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Biotechnology and Microbiology

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+ Bioprocessing Part 1: Fermentation Chapter~~

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1 Introduction to Microbiology

Classification Of Algae

Lecture 2: Microbiology-I

MBL - Microalgal Biotechnology Laboratory:

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Biotechnology And Microbiology

Microalgae: Biotechnology and Microbiology.

Microalgae. : E. W. Becker. Cambridge

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2 Reviews. The author presents a state-of-the-

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E. W. Becker. Cambridge University Press, Apr 24, 2008 - Science - 304 pages. 0 Reviews. A state-of-the-art account of research in algal production and utilization. The book explores in detail all steps of the subject, from the preparation of stock cultures to the growth in large outdoor ponds. Dr.

Microalgae: Biotechnology and Microbiology -
E. W. Becker ...

The utilization of unconventional microbial sources, particularly microalgae, for the production of feed, food, food additives, pharmaceuticals and fine chemicals is growing

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A state-of-the-art account of research in algal production and utilization. The book explores in detail all steps of the subject, from the preparation of stock cultures to the growth in large outdoor ponds.

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E.W. Becker

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Becker, E. W. The utilization of
unconventional microbial sources,
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in importance. Research in the field is
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Becker, E. W

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10 (Cambridge ...

Microalgae: Biotechnology and Microbiology.
By E. W. Becker. Cambridge: Cambridge
University Press (1994), pp. 230, £40.00,
US\$69.95. ISBN 0-521-35020-4. - Volume 31

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Issue 1 - A. E. Walsby

Microalgae: Biotechnology and Microbiology.

By E. W ...

The biotechnology of microalgae has gained considerable importance in recent decades. Applications range from simple biomass production for food and feed to valuable products for ecological applications. For most of these applications, the market is still developing and the biotechnological use of m ...

Valuable products from biotechnology of

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microalgae

However, the use of microalgae can be a suitable alternative feedstock for next generation biofuels because certain species contain high amounts of oil, which could be extracted, processed and refined into transportation fuels, using currently available technology; they have fast growth rate, permit the use of non-arable land and non-potable water, use far less water and do not displace food crops cultures; their production is not seasonal and they can be harvested daily.

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form...useful reading material for the advanced undergraduate and for those who are thinking of conducting research in the field of algal biotechnology...offers good coverage of the state of microalgae research today."

Microalgae: Biotechnology: Biotechnology and Microbiology ...

"Microalgae Biotechnology for Food, Health and High Value Products" presents the latest technological innovations in microalgae production, market status of algal biomass-based products, and future prospects for microalgal applications. It provides

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stimulating overviews from different perspectives of application that demonstrate how rapidly the commercial production of microalgae-based food, health and high value products is advancing.

Microalgae Biotechnology for Food, Health and High Value ...

Department of Microbiology Maharshi Dayanand University Rohtak India. A. Xia (Biography. ... His research interests including microalgae lipid biology and biotechnology. He obtained his Master's degree in HIT in China (2011), and got his Ph.D. degree in KUT

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in Japan (2014), then he did Postdoc in CEA Cadarache in France and POSTECH in South ...

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Microalgal Biotechnology presents an
authoritative and comprehensive overview of

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the microalgae-based processes and products. Divided into 10 discreet chapters, the book covers topics on applied...

The author presents a state-of-the-art account of research in algal production and utilization. Dr Becker provides a compilation of the different methods employed worldwide for the artificial cultivation of different microalgae, including recipes for culture media, description of outdoor and indoor cultivation systems as well as harvesting and

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processing methods. The book will be essential reading for advanced undergraduates, postgraduates and researchers in the field.

Microalgae are microscopic algae, typically found in freshwater and marine systems. Microalgae, capable of performing photosynthesis, are important for life on earth; they produce approximately half of the atmospheric oxygen and use simultaneously the greenhouse gas carbon dioxide to grow photoautotrophically. The biodiversity of microalgae is enormous and they represent an almost untapped resource. In this book, the

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authors present current research in the study of microalgae, including microalgal biotechnological applications in nutrition, health and the environment; using microalgae biomass for biodiesel and biofuel production and microalgae for aquaculture.

This book addresses microalgae, which represent a very promising biomass resource for wastewater treatment and producing biofuels. Accordingly, microalgae are also an expanding sector in biofuels and wastewater

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treatment, as can be seen in several high-profile start-ups from around the globe, including Solix Biofuels, Craig Venter's Synthetic Genomics, PetroSun, Chevron Corporation, ENN Group etc. In addition, a number of recent studies and patent applications have confirmed the value of modern microalgae for biofuels production and wastewater treatment systems. However, substantial inconsistencies have been observed in terms of system boundaries, scope, the cultivation of microalgae and oil extraction systems, production costs and economic viability, cost-lowering components,

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etc. Moreover, the downstream technologies and core principles involved in liquid fuel extraction from microalgae cells are still in their early stages, and not always adequate for industrial production. Accordingly, multilateral co-operation between universities, research institutes, governments, stakeholders and researchers is called for in order to make microalgae biofuels economical. Responding to this challenge, the book begins with a general introduction to microalgae and the algae industry, and subsequently discusses all major aspects of microalgal biotechnology,

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from strain isolation and robust strain development, to biofuel development, refinement and wastewater treatment.

"Microalgae Biotechnology for Food, Health and High Value Products" presents the latest technological innovations in microalgae production, market status of algal biomass-based products, and future prospects for microalgal applications. It provides

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stimulating overviews from different perspectives of application that demonstrate how rapidly the commercial production of microalgae-based food, health and high value products is advancing. It also addresses a range of open questions and challenges in this field. The book highlights the latest advances of interest to those already working in the field, while providing a comprehensive overview for those readers just beginning to learn about the promise of microalgae as a sustainable source of both specialty and commercial products. It offers a valuable asset for commercial algae producers, algae

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product developers, scientific researchers and students who are dedicated to the advancement of microalgae biotechnology for applications in health, diet, nutrition, cosmetics, biomaterials etc.

Microalgal Biotechnology presents an authoritative and comprehensive overview of the microalgae-based processes and products. Divided into 10 discreet chapters, the book covers topics on applied technology of microalgae. Microalgal Biotechnology provides an insight into future developments in each field and extensive bibliography. It will be

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an essential resource for researchers and academic and industry professionals in the microalgae biotechnology field.

Handbook of Microalgal Culture is truly a landmark publication, drawing on some 50 years of worldwide experience in microalgal mass culture. This important book comprises comprehensive reviews of the current available information on microalgal culture, written by 40 contributing authors from around the globe. The book is divided into four parts, with Part I detailing biological and environmental aspects of microalgae with

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referenceto microalgal biotechnology and Part II looking in depth at major theories and techniques of mass cultivation. Part III comprises chapters on the economic applications of microalgae, including coverage of industrial production, the use of microalgae in human and animal nutrition and in aquaculture, in nitrogen fixation, hydrogen and methane production, and in bioremediation of polluted water. Finally, Part IV looks at new frontiers and includes chapters on genetic engineering, microalgae as platforms for recombinant proteins, bioactive chemicals, heterotrophic production, microalgae as gene-

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delivery systems for expressing mosquito-cidal toxins and the enhancement of marine productivity for climate stabilization and food security. Handbook of Microalgal Culture is an essential purchase for all phycologists and also those researching aquatic systems, aquaculture and plant sciences. There is also much of great use to researchers and those involved in product formulation within pharmaceutical, nutrition and food companies. Libraries in all universities and research establishments teaching and researching in chemistry, biological and pharmaceutical sciences, food sciences and

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nutrition, and aquaculture will need copies of this book on their shelves. Amos Richmond is at the Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Israel.

The Handbook of Microalgae-based Processes and Products provides a complete overview of all aspects involved in the production and utilization of microalgae resources at commercial scale. Divided into four parts (fundamentals, microalgae-based processes, microalgae-based products, and engineering approaches applied to microalgal processes

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and products), the book explores the microbiology and metabolic aspects of microalgae, microalgal production systems, wastewater treatment based in microalgae, CO₂ capture using microalgae, microalgae harvesting techniques, and extraction and purification of biomolecules from microalgae. It covers the largest number of microalgal products of commercial relevance, including biogas, biodiesel, bioethanol, biohydrogen, single-cell protein, single-cell oil, biofertilizers, pigments, polyunsaturated fatty acids, bioactive proteins, peptides and amino acids, bioactive polysaccharides,

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sterols, bioplastics, UV-screening compounds, and volatile organic compounds. Moreover, it presents and discusses the available engineering tools applied to microalgae biotechnology, such as process integration, process intensification, and techno-economic analysis applied to microalgal processes and products, microalgal biorefineries, life cycle assessment, and exergy analysis of microalgae-based processes and products. The coverage of a broad range of potential microalgae processes and products in a single volume makes this handbook an indispensable reference for engineering researchers in

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academia and industry in the fields of bioenergy, sustainable development, and high-value compounds from biomass, as well as graduate students exploring those areas. Engineering professionals in bio-based industries will also find valuable information here when planning or implementing the use of microalgal technologies. Covers theoretical background information and results of recent research. Discusses all commercially relevant microalgae-based processes and products. Explores the main emerging engineering tools applied to microalgae processes, including

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techno-economic analysis, process integration, process intensification, life cycle assessment, and exergy analyses.

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