



Michael A. Borowitzka
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John A. Raven *Editors*

The Physiology of Microalgae

The Physiology Of Microalgae Developments In Applied Phycology

**Vladimir I. Kalinin, Valentin A.
Stonik, Natalia V. Ivanchina**

The Physiology Of Microalgae Developments In Applied Phycology:

The Physiology of Microalgae Michael A. Borowitzka, John Beardall, John A. Raven, 2016-03-21 This book covers the state of the art of microalgae physiology and biochemistry and the several omics. It serves as a key reference work for those working with microalgae whether in the lab or the field or for commercial applications. It is aimed at new entrants into the field including PhD students as well as experienced practitioners. It has been over 40 years since the publication of a book on algal physiology. Apart from reviews and chapters no other comprehensive book on this topic has been published. Research on microalgae has expanded enormously since then as has the commercial exploitation of microalgae. This volume thoroughly deals with the most critical physiological and biochemical processes governing algal growth and production.

Marine Glycoconjugates Vladimir I. Kalinin, Valentin A. Stonik, Natalia V. Ivanchina, 2020-05-27 The book describes marine glycoconjugates. Two articles concern microalgal metabolites such as steroid and sphingoid glycoconjugates and a glycoprotein from a sea cucumber with interesting biological activities respectively. One article discusses the fatty acid composition and thermotropic behavior of glycolipids and other membrane lipids of green macrophyte *Ulva lactuca*. Three articles cover lectin subjects. One review article analyzes perspectives of marine and freshwater lectins application in experimental oncology and the therapy of oncological diseases. Another article describes the use of a sponge lectin in the construction of a recombinant virus. The third article concerns the function of the immunity of a lectin in producing this compound. Two articles concern steroid glycosides from starfish and two others concern triterpene glycosides from sea cucumbers. One article describes the effect of a glycosaminoglycan from the sea cucumber *Apostichopus japonicus* on hyperglycemia in the liver of insulin resistant mice. One article concerns the isolation of 10 new triterpene glycosides from a fungus associated with a sea cucumber. The article by Dworaczek et al. characterizes the O-specific polysaccharide O antigen of a bacterial pathogen of common carp by chemical and immunochemical methods. In total the Special Issue comprises 14 articles including the editorial and two reviews.

Plants as Bioreactors for Industrial Molecules Santosh Kumar Upadhyay, Sudhir Pratap Singh, 2023-02-03 PLANTS AS BIOREACTORS FOR INDUSTRIAL MOLECULES An incisive and practical discussion of how to use plants as bioreactors. In *Plants as Bioreactors for Industrial Molecules* a team of distinguished researchers delivers an insightful and global perspective on the use of plants as bioreactors. In the book you'll find coverage of the basic applied biosynthetic and translational approaches to the exploitation of plant technology in the production of high value biomolecules. The authors focus on the yield and quality of amino acids, vitamins and carbohydrates. The authors explain how high value biomolecules enable developers to create cost effective biological systems for the production of biomolecules useful in a variety of sectors. They provide a holistic approach to plant based biological devices to produce natural molecules of relevance to the health and agriculture industries. Readers will also find a thorough overview of plants as bioreactors and discussions of molecular farming for the production of pharmaceutical proteins in plants.

Comprehensive explorations of plants as edible vaccines and plant cell culture for biopharmaceuticals Practical discussions of the production of attenuated viral particles as vaccines in plants and insecticidal protein production in transgenic plants Extensive treatment of the regulatory challenges involved in using plants as bioreactors Perfect for academics scientists and researchers in industrial microbiology and biotechnology Plants as Bioreactors for Industrial Molecules will also earn a place in the libraries of biotechnology company professionals in applied product development *Algal Bioreactors* Eduardo Jacob-Lopes,Leila Queiroz Zepka,Mariany Costa Depra,2024-11-21 Algal Bioreactors Science Engineering and Technology of Upstream Processes Volume One is part of a comprehensive two volume set that provides all of the knowledge needed to design develop and operate algal bioreactors for the production of renewable resources Supported by critical parameters and properties mathematical models and calculations methods and practical real world case studies readers will find everything they need to know on the upstream and downstream processes of algal bioreactors for renewable resource production Bringing together renowned experts in microalgal biotechnology this book will help researchers scientists and engineers from academia and industry overcome barriers and advance the production of renewable resources and renewable energy from algae Students will also find invaluable explanations of the fundamentals and key principles of algal bioreactors making it an accessible read for students of engineering microbiology biochemistry biotechnology and environmental sciences Presents the physical biological environmental and economic parameters of upstream processes in the operation and development of algal bioreactors to produce renewable resources Explains the main configurations and designs of algal bioreactors presenting recent innovations and future trends Integrates the scientific engineering technology environmental and economic aspects of producing renewable resources and other valuable bioproducts using algal bioreactors Provides real world case studies at various scales to demonstrate the practical implementation of the various technologies and methods discussed

Algae for Biofuels and Energy Michael A. Borowitzka,Navid R. Moheimani,2012-12-11 Microalgae are one of the most studied potential sources of biofuels and bioenergy This book covers the key steps in the production of renewable biofuels from microalgae strain selection culture systems inorganic carbon utilisation lipid metabolism and quality hydrogen production genetic engineering biomass harvesting extraction Greenhouse gas and techno economic modelling are reviewed as is the 100 year history of microalgae as sources of biofuels and of commercial scale microalgae culture A summary of relevant basic standard methods used in the study of microalgae culture is provided The book is intended for the expert and those starting work in the field

Microalgae in Health and Disease Prevention Ira A. Levine,Joël Fleurence,2018-06-29 Microalgae in Health and Disease Prevention is a comprehensive reference that addresses the historical and potential use of microalgae its extracts secondary metabolites and molecular constituents for enhancing human health and preventing diseases Each chapter features an overview and the book includes coverage of microalgae biology harmful algae the use of microalgae in alcohol and food and as sources of macronutrients micronutrients vitamins and minerals The historical use of

microalgae in addition to its potential use as a nutraceutical and cosmeceutical is also addressed The book provides coverage of relevant up to date research as assembled by a group of contributors who are dedicated to the advancement of microalgae use in health diet and nutrition Discusses research findings on the relationship between microalgal diet nutrition and human health Presents the medicinal anti allergic and psychoactive properties of microalgae Identifies toxic and harmful microalgae Addresses microalgal lipids proteins and carbohydrates

Applied Phycology Forum ,1984

Microalgae Milada

Vítová,2020-01-22 The term microalgae is often used in the algal research community to collectively describe microscopic algae and cyanobacteria Research of microalgae has expanded enormously namely because of their significant commercial potential The thorough knowledge of the physiology of microalgae must precede any commercial exploitation We have to understand the mechanisms underlying the physiological and biochemical processes in the algal cells The book Microalgae From Physiology to Application covers major aspects of microalgae physiology and the possible applications in the sphere of biotechnology This book gives a comprehensive overview of what is known about microalgae growth and production secondary metabolites and development of new species and products for commercialization This volume should allow readers at all levels an entry into the exciting world of algal research

Introduction to Applied Phycology I. Akatsuka,1990

Innovations and Technologies in Oceanography for Sustainable Development ,2006 **American Journal of Botany** ,2007 **The Alga Dunaliella** Ami Ben-Amotz,Jürgen E.W. Polle,D.V. Subba Rao,2009-01-05 Presenting research in biochemistry molecular biology and medical application this outstanding volume provides a balanced and multi disciplinary review of this unique alga

At the Helm ,2006 Directory of professors in the University of Malaya The Effects of Environmental Stresses on Aquatic Microalgae Jessica Ruth Oleson,1998 **Actes Du Symposium** ,1991 The Zoological Record ,2002 **Phycologia** ,2003 16th International Diatom Symposium, Athens & Aegean Islands, 25 August - 1 September 2000 A. Economou-Amilli,2001 **Phykos** ,1998 Science Series Technical Report ,2002

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