

L.C. Rai
J. P. Gaur
(Eds.)

Algal Adaptation to Environmental Stresses

Physiological,
Biochemical
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Mechanisms



Springer

Algal Adaptation To Environmental Stresses Physiological Biochemical And Molecular Mechanisms

**Jagdish Chander Dagar, Sharda Rani
Gupta, Ashwani Kumar**



Algal Adaptation To Environmental Stresses Physiological Biochemical And Molecular Mechanisms:

Algal Adaptation to Environmental Stresses L.C. Rai,J.P. Gaur,2012-12-06 Algae generally held as the principal primary producers of aquatic systems inhabit all conceivable habitats They have great ability to cope with a harsh environment e g extremely high and low temperatures suboptimal and supraoptimal light intensities low availability of essential nutrients and other resources and high concentrations of toxic chemicals etc A multitude of physiological biochemical and molecular strategies enable them to survive and grow in stressful habitats This book presents a critical account of various mechanisms of stress tolerance in algae many of which may occur in microbes and plants as well

Emerging and Priority Pollutants in Rivers Helena Guasch,Antoni Ginebreda,Anita Geislinger,2012-02-22 The enduring changes in the aquatic environment and the increasing influx of contaminants call for novel conceptual and methodological approaches to relating chemical pollution and ecological alterations in ecosystems This volume highlights the latest advances concerning the sampling analyses occurrence bioavailability and effects of emerging and priority pollutants in European rivers the current status of the River Management Plans in Europe and the applicability of the newly developed techniques for water monitoring purposes The topics are discussed in the context of the EU Water Framework Directive evaluating their shortcomings and providing a basis for doing away with them Linking scientific research and river management practices this book is an invaluable source of information for environmental chemists aquatic scientists ecologists and water managers

Algal Biofuels Sanjay Kumar Gupta,Anushree Malik,Faizal Bux,2017-02-26 This edited volume focuses on comprehensive state of the art information about the practical aspects of cultivation harvesting biomass processing and biofuel production from algae Chapters cover topics such as synthetic ecological engineering approaches towards sustainable production of biofuel feedstock and algal biofuel production processes using wastewater Readers will also discover more about the role of biotechnological engineering in improving ecophysiology biomass and lipid yields Particular attention is given to opportunities of commercialization of algal biofuels that provides a realistic assessment of various techno economical aspects of pilot scale algal biofuel production The authors also explore the pre treatment of biomass catalytic conversion of algal lipids and hydrothermal liquefaction with the biorefinery approach in detail In a nut shell this volume will provide a wealth of information based on a realistic evaluation of contemporary developments in algal biofuel research with an emphasis on pilot scale studies Researchers studying and working in the areas of environmental science biotechnology genetic engineering and biochemistry will find this work instructive and informative Stress Biology of Cyanobacteria

Ashish Kumar Srivastava,Amar Nath Rai,Brett A Neilan,2013-03-01 A significant component of many different ecosystems cyanobacteria occupy almost every niche of the earth including fresh and salt waters rice fields hot springs arid deserts and polar regions Cyanobacteria along with algae produce nearly half the global oxygen making assessment of their ecophysologies important for understanding climate **Advances in Microbial Physiology** ,2003-09-16 The Editors of the

Advances in Microbial Physiology series have always striven to provide a diverse range of top quality papers on all aspects of microbial physiology Coverage of holistic topics or whole cell studies such as ion fluxes stress responses and motility have gone hand in hand with detailed biochemical analyses of individual transport systems electron transport pathways and many aspects of metabolism Now edited by Professor Robert Poole University of Sheffield Advances in Microbial Physiology continues to publish topical and important reviews interpreting physiology in its broadest context to include all material that contributes to our understanding of how microorganisms and their component parts work The Biodiversity of Microbial Cytochromes P450 The Tat protein translocation pathway and its role in microbial physiology Microbial Globins

Herbicides and Environment Andreas Kortekamp,2011-01-08 Herbicides are much more than just weed killers They may exhibit beneficial or adverse effects on other organisms Given their toxicological environmental but also agricultural relevance herbicides are an interesting field of activity not only for scientists working in the field of agriculture It seems that the investigation of herbicide induced effects on weeds crop plants ecosystems microorganisms and higher organism requires a multidisciplinary approach Some important aspects regarding the multisided impacts of herbicides on the living world are highlighted in this book I am sure that the readers will find a lot of helpful information even if they are only slightly interested in the topic

Biological Monitoring M. E. Conti,2008 The aim of this book is to provide the reader with a basic understanding of the use of bioindicators both in assessing environmental quality and as a means of support in environmental impact assessment EIA procedures Cyanobacteria for Bioremediation of Wastewaters Inga

Zinicovscaia,Liliana Cepoi,2016-01-11 This book reflects the use of cyanobacteria for the bioremediation of wastewater through different mechanisms and pathways of transformation and transfer of hazardous substances from one medium to another The application of microorganisms for bioremediation is determined by their ubiquity small size high rate of reproduction and large surface to volume cell ratio Mechanisms of interaction of cyanobacteria with inorganic pollutants include biosorption bioaccumulation with an opportunity to obtain metal nanoparticles both on the cell surface and inside the cells as well as chelation and inclusion of metals in the composition of certain organic structures Data presented in the book provides specialists in the field with useful information for bioremediation technologies as well as for obtaining valuable preparations using cyanobacteria *Life in Extreme Environments* Guido di Prisco,Howell G. M. Edwards,Josef Elster,Ad H.

L. Huiskes,2020-10-15 A diverse account of how life exists in extreme environments and these systems susceptibility and resilience to climate change Applications in Ecological Engineering Sven Erik Jørgensen,2009-07-25 Ecological

engineering involves the design construction and management of ecosystems that have value to both humans and the environment It is a rapidly developing discipline that provides a promising technology to solve environmental problems Ecological Engineering covers the basic theory of ecological engineering as well as the application of these principles in environmental management Provides an overview of the theory and application of environmental engineering International

focus and range of ecosystems makes Ecological Engineering an indispensable resource to scientists Based on the best selling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding *Environmental Health Perspectives* ,1993

Phytoremediation Abid Ali Ansari,Sarvajeet Singh Gill,Ritu Gill,Guy R. Lanza, Lee Newman,2015-03-03 This text details the plant assisted remediation method phytoremediation which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals pesticides solvents radionuclides explosives crude oil organic compounds and various other contaminants Each chapter highlights and compares the beneficial and economical alternatives of phytoremediation to currently practiced soil removal and burial practices This book covers state of the art approaches in Phytoremediation written by leading and eminent scientists from around the globe Phytoremediation Management of Environmental Contaminants Volume 1 supplies its readers with a multidisciplinary understanding in the principal and practical approaches of phytoremediation from laboratory research to field application

Microalgae for Sustainable Products Ajam Shekh,Santanu Dasgupta,2022-12-12 Microalgae are a diverse set of eukaryotic photosynthetic organisms with great potential for being used to produce various high value molecules Using synthetic biology to manipulate and control the metabolic processes of microalgae scientists hope to find economical and sustainable alternatives for commercial production of high value biochemicals and other metabolites for diverse applications Highlighting the immense potential of microalgae as a renewable and sustainable source of commercially important high value biomolecules this book covers the recent advances in the resources tools and techniques used for genetic engineering of microalgae Also discussed are the legislative challenges associated with genetically engineered microalgae their derived products and their uses as well as socio economic and environmental acceptance Written to be accessible to a wide audience this book will be a useful reference to students and researchers from both academia and industry as well as policy makers for understanding the current status trends and future possibilities of using microalgae for biotechnological applications

Halophytes vis-à-vis Saline Agriculture Jagdish Chander Dagar,Sharda Rani Gupta,Ashwani Kumar,2024-08-16 This edited book deals with the distribution classification and diversity of halophytic ecosystems ecology of mangroves coastal agroforestry adaptations and mechanisms of salt tolerance in glycophytes verses halophytes scope of biosaline agriculture and potential utilization of halophytes in abiotic stressed environments in arid and semiarid regions and coastal areas In this era of global population increase and global environmental change there is need to provide food to the ever growing population combating climate change and conserving biodiversity Keeping in view the rich biodiversity of halophytes there is wide scope in food industry phytoremediation as well as a source of bioactive compounds including modern drugs The new technologies for the cultivation of halophytes help to utilize saline and arid wastelands and also waterlogged areas sustainably for humans and the livestock This book creates interest in educationists researchers industrialists investors soil and climate change scientists development extension workers environmentalists policy decision

makers and government and non government organizations Also the book serves as reference material for undergraduate and graduate students of agriculture ecology soil science and environmental sciences National and international soil and agricultural scientists ecologists policy makers will also find this book immensely useful

Grand Challenges in Algae Biotechnology Armin Hallmann, Pablo H. Rampelotto, 2020-01-02 In this book researchers and practitioners working in the field present the major promises of algae biotechnology and they critically discuss the challenges arising from applications Based on this assessment the authors explore the great scientific industrial and economic potential opened up by algae biotechnology The first part of the book presents recent developments in key enabling technologies which are the driving force to unleash the enormous potential of algae biotechnology The second part of the book focuses on how practical applications of algae biotechnology may provide new solutions to some of the grand challenges of the 21st century Algae offer great potential to support the building of a bio based economy and they can contribute new solutions to some of the grand challenges of the 21st century Despite significant progress algae biotechnology is yet far from fulfilling its potential How to unleash this enormous potential is the challenge that the own field is facing New cultivation technologies and bioprocess engineering allow for optimization of the operation strategy of state of the art industrial scale production systems and they reduce the production costs Parallel to this new molecular technologies for genetic and metabolic engineering of micro algae develop quickly The optimization of existing biochemical pathways or the introduction of pathway components makes high yield production of specific metabolites possible Novel screening technologies including high throughput technologies enables testing of extremely large numbers of samples and thus allow for large scale modelling of biomolecular processes which would have not been possible in the past Moreover profitable production can demand for integrated biorefining which combines consecutive processes and various feedstocks to produce both transportation fuel electric energy and valuable chemicals

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both

the expert and non expert Available electronically on ScienceDirect shortly upon publication *Aquatic Physiology, Environmental Pollution, Nanotoxicology and Phytoremediation* Alaa El-Din Hamid Sayed, Francesco Fazio, Tomomi Watanabe-Asaka, Vincenzo Parrino, 2021-01-22 This Research Topic is part of the Aquatic Physiology Environmental Pollution Nanotoxicology and Phytoremediation series Aquatic Physiology Environmental Pollution Nanotoxicology and Phytoremediation Volume II Environmental pollution as a result of increasing industrialization is a major problem worldwide The toxicity of the chemicals hazards radiation and environmental stressor to the aquatic fauna was studied Although recently the excess levels of wastes discharged in water caused severe toxicity in aquatic environments and their fauna still there is some shortage in the nanotoxicology and phytoremediation studies So the aim of this Research Topic is to create some knowledge about the environmental pollution and remediation in aquatic environment in collaboration with experts in physiology biochemistry endocrinology morpho histology of aquatic fauna The relation between physiology and other research fields is strong enough as all researchers in biology field use some extent physiological parameters to evaluate the organisms health status in normal and stressful conditions In addition physiology with endocrinology and neurology can provide a contribution on the endocrine stress response of aquatic vertebrates and regulate the responses of vertebrates to stressors Whilst the physiology of most aquatic animals has been well studied not many articles provide sufficient data that helps understanding the common bases of the stress response after exposure to environmental pollutants and mechanisms of action Such approach needs to be taken both in terms of comparative responses among vertebrates but also among classes or orders within groups of vertebrates Another aspect that has not been sufficiently approached so far is physiological stress response in relation to immunity growth reproduction or behavior and embryology of the aquatic organisms which expands the knowledge on the interactions between physiological systems to build an overall stress response *The Ecological Genomics of Algae* Senjie Lin, 2025-08-12 Discover the captivating world of algae through the lens of genomics in Ecological Genomics of Algae This comprehensive resource explores the evolutionary ecological and molecular foundations of algal biology Spanning 21 chapters it delves into genome evolution environmental adaptation energy acquisition nutrient uptake environmental sensing and signal transduction stress responses defense and algae microbe interactions From unicellular forms to complex seaweeds this book illuminates how algae navigate their environments and adapt to climate change Ideal for researchers and students it provides cutting edge insights into the genomic mechanisms driving one of nature s most versatile and essential groups of organisms [Heavy Metal Stress in Plants](#) M.N.V. Prasad, 2004-04-26 Metal Availability Uptake Transport and Accumulation in Plants Metal Speciation Chelation and Complexing Ligands in Plants Metallothioneins Metal Binding Complexes and Metal Sequestration in Plants Heavy Metal Induced Oxidative Damage in Terrestrial Plants Membrane Lipid Alterations in Heavy Metal Exposed Plants Photosynthesis in Heavy Metal Stressed Plants Plant Mitochondrial Respiration Under the Influence of Heavy Metals Ecophysiology of Plant Growth Under Heavy Metal Stress

Structural and Ultrastructural Changes in Heavy Metal Exposed Plants Water Relations in Heavy Metal Stressed Plants Heavy Metals as Essential Nutrients Metal Pollution and Forest Decline Root and Rhizosphere Processes in Metal Hyperaccumulation and Phytoremediation Technology Phytoremediation of Metals and Radionuclides in the Environment The Case for Natural Hyperaccumulators Metal Transporters Soil Amending Chelators and Transgenic Plants Metal Removal from Sewage Sludge Bioengineering and Biotechnological Applications Species selective Analysis for Metals and Metalloids in Plants Experimental Characterisation of Metal Tolerance Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment El-Sheekh, Mostafa M.,Abdullah, Norhayati,Ahmad, Imran,2022-06-03 Today s planet faces several critical problems such as resource depletion environmental destruction and climate change that affect all areas of life as we know it Figuring out how to address these issues and prioritizing Earth s health has been at the forefront of study as it is a key issue that affects us all One element that requires further investigation is algae regarding its potential for creating a more sustainable future across the food energy and environmental sectors The Handbook of Research on Algae as a Sustainable Solution for Food Energy and the Environment provides insight into the biotechnological and biorefinery aspects of algae together with their unique applications in the agriculture and pharmaceutical industry Furthermore this book considers the biological and biotechnological processes happening in the cultivation and harvesting of algae DNA sequencing and genomics of algae Moreover it examines the bio remediation aspects of algae and its utilization to produce biofuels methane hydrogen and other useful renewable sources of energy thereby contributing to environmental sustainability Covering topics such as cell biology and food science this reference work is ideal for academicians researchers industry professionals scholars practitioners instructors and students

Algal Adaptation To Environmental Stresses Physiological Biochemical And Molecular Mechanisms Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algal Adaptation To Environmental Stresses Physiological Biochemical And Molecular Mechanisms**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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