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Organic stress and cyanobacteria

Impact on photosynthetic, physiological and
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Organic Stress And Cyanobacteria Impact On Photosynthetic Physiological And Biochemical Parameters

**Douglas G. Capone, Deborah A.
Bronk, Margaret R. Mulholland, Edward
J. Carpenter**

Organic Stress And Cyanobacteria Impact On Photosynthetic Physiological And Biochemical Parameters:

Ecophysiology and Biochemistry of Cyanobacteria Rajesh Prasad Rastogi, 2022-01-30 This book emphasizes and presents the latest information on eco physiology and biochemistry of cyanobacteria with special emphasis on their biodiversity molecular mechanisms of some important biological processes and survival mechanisms under myriad of environmental conditions as well as bioremediation Cyanobacteria are the most dominant prokaryotic floras on the Earth's surface and are of great importance in terms of ecological economical and evolutionary perspectives They are oldest groups of photosynthetic autotrophs which create oxygenic atmosphere for the development and sustainability of ecosystems with different life forms The book presents an integrative approach to their possible biotechnological application in the field of bio energy and various aspects of biochemistry biophysics and structural biology of photosynthesis The various chapters describe the different applications of cyanobacteria as bio energy sources and in phytoremediation The contents incorporated in this book can be used as a textbook by undergraduate and post graduate students teachers and researchers in the most interesting fields of physicochemical ecology and biochemistry of cyanobacteria Cyanobacteria A.K. Mishra, D.N. Tiwari, A.N. Rai, 2018-11-30 Cyanobacteria constitute the most widely distributed group of photosynthetic prokaryotes found in almost all realms of the earth and play an important role in Earth's nitrogen and carbon cycle The gradual transformation from reducing atmosphere to oxidizing atmosphere was a turning point in the evolutionary history of the earth and made conditions for present life forms possible Cyanobacteria From Basic Science to Applications is the first reference volume that comprehensively discusses all aspects of cyanobacteria including the diverse mechanisms of cyanobacteria for the advancement of cyanobacterial abilities towards higher biofuel productivity enhanced tolerance to environmental stress and bioactive compounds and potential for biofertilizers Describes cyanobacterial diversity stress biology and biotechnological aspects of cyanobacteria Explores the global importance of cyanobacteria Provides a broad compilation of research that deals with cyanobacterial stress responses in both controlled laboratory conditions as well as in their natural environment

Ecology of Cyanobacteria II Brian A. Whitton, 2012-07-05 Cyanobacteria have existed for 3.5 billion years yet they are still the most important photosynthetic organisms on the planet for cycling carbon and nitrogen The ecosystems where they have key roles range from the warmer oceans to many Antarctic sites They also include dense nuisance growths in nutrient rich lakes and nitrogen fixers which aid the fertility of rice fields and many soils especially the biological soil crusts of arid regions Molecular biology has in recent years provided major advances in our understanding of cyanobacterial ecology Perhaps for more than any other group of organisms it is possible to see how the ecology physiology biochemistry ultrastructure and molecular biology interact This all helps to deal with practical problems such as the control of nuisance blooms and the use of cyanobacterial inocula to manage semi desert soils Large scale culture of several organisms especially *Spirulina* *Arthrospira* for health food and specialist products is increasingly being expanded for a much wider range of uses

In view of their probable contribution to past oil deposits much attention is currently focused on their potential as a source of biofuel Please visit [http extras springer com](http://extras.springer.com) to view Extra Materials belonging to this volume This book complements the highly successful Ecology of Cyanobacteria and integrates the discoveries of the past twelve years with the older literature

Nitrogen in the Marine Environment Douglas G. Capone, Deborah A. Bronk, Margaret R. Mulholland, Edward J.

Carpenter, 2008-08-15 Since the first edition of Nitrogen in the Environment published in 1983 it has been recognized as the standard in the field In the time since the book first appeared there has been tremendous growth in the field with unprecedented discoveries over the past decade that have fundamentally changed the view of the marine nitrogen cycle As a result this Second Edition contains twice the amount of information as contained in the first edition This updated edition is now available online offering searchability and instant multi user access to this important information The classic text fully updated to reflect the rapid pace of discovery Provides researchers and students in oceanography chemistry and marine ecology an understanding of the marine nitrogen cycle Available online with easy access and search the information you need when you need it

Bioinoculants with Nano-compounds to Improve Soil Health: A Step Toward Sustainable Agriculture

Parul Chaudhary, Vishnu D. Rajput, Shashua Chen, Durgesh K. Jaiswal, 2023-09-01 In recent decades agrochemicals have enhanced crop productivity to meet increasing global food requirements However prolonged and extensive use of agrochemicals has resulted in contamination that persists in the soil system which can be biomagnified in the food chain Furthermore toxic chemicals adversely affect important soil microbial biota the key drivers of biogeochemical cycles This concern has raised the need to develop environmentally friendly and cost effective nano and micro biotechnology strategies to minimize the adverse impact of agrochemicals and pesticide residues on soil microbiota soil fertility and their biomagnification in food crops Nano bioinoculants the combination of nano compounds and bioinoculants have been increasingly used as soil amendments They can improve agri potential and soil health by maintaining soil physico and biological properties microbial diversity and the nutrient solubilizing microbial population They also aid in improving crop yields and reducing agrochemical and pesticide residues Nano bioinoculants are more efficient than other methods for removing contaminants due to their small size high reactivity and catalytic activities Several types of nano compounds chitosan zeolite gypsum and silicon dioxide have been used in conjunction with beneficial microbes bacteria fungi actinomycetes endophytic bacteria as nano bioinoculants

Bibliography of Agriculture with Subject Index, 1993

Dissertation Abstracts International, 2005

Natural Bioactives from the Endophytes of Medicinal Plants Vineet

Meshram, Kamlesh Kumar Shukla, Mahiti Gupta, Nadeem Akhtar, 2025-03-13 Endophytes from medicinal plants have garnered global attention due to their remarkable capacity to produce unique phytochemicals pharmaceuticals and promising lead compounds This book explores cutting edge advancements in endophytic fungi research encompassing a comprehensive exploration of their biodiversity ecological dynamics mechanisms of interaction and adaptive strategies The book offers

valuable insights into the therapeutic potential agricultural applications environmental impacts and commercial prospects of these fascinating organisms While the contemporary books are limited to either taxonomic ecological or practical discussions this book presents a systematic compilation of biology and biotechnological applications of endophytic fungi from medicinal plants Key Features Comprehensive exploration of the diversity ecology and interactions of endophytes derived from medicinal plants found in their natural habitats Highlights the potential of endophytes derived as prolific producers of novel pharmaceutical and lead compounds Showcases the practical applications of endophytes in plant development and sustainable agriculture practices Includes contribution from researchers and academicians having vast experience in the field This book is a collection of informative illustrations strategically integrated throughout the content to facilitate the understanding of concepts and aid in smooth transitions between topics Given the vast and diverse nature of the discipline this book serves as an invaluable reference resource for students and researchers in various fields including mycology microbiology biotechnology pharmacology botany ecology agronomy and molecular biology Additionally professionals in environmental conservation and policymakers dedicated to preserving biodiversity of medicinal plants will find this book to be a valuable asset in their work

Cyanobacterial Biology in 21st Century Prashant Kumar Singh,Ajay Kumar,Michel Passarini,Vijay Pratap Singh,2023-04-27 **Bibliography of Agriculture** ,1992 **Chlorophyll Fluorescence Imaging Analysis in Biotic and Abiotic Stress** Michael Moustakas,Angeles Calatayud,Lucia Guidi,2021-06-08 Trait-Based Plant Community Assembly, Ecological Restoration, and the Biocontrol of Invasive Exotic Plant Species Hui Zhang,Wenxing Long,Guangyu Wang,2022-03-07 **Photosynthesis in Algae** Anthony W. D. Larkum,S. Douglas,John A. Raven,2012-12-06

This book introduces the reader to algal diversity as currently understood and then traces the photosynthetic structures and mechanisms that contribute so much to making the algae unique Indeed the field is now so large that no one expert can hope to cover it all The 19 articles are each written by experts in their area ranging over all the essential aspects and making for a comprehensive coverage of the whole field Important developments in molecular biology especially transformation mutants in *Chlamydomonas* are dealt with as well as areas important to global climate change carbon dioxide exchange light harvesting energy transduction biotechnology and many others The book is intended for use by graduate students and beginning researchers in the areas of molecular and cell biology integrative biology plant biology biochemistry and biophysics biotechnology global ecology and phycology *Plant Responses to Xenobiotics* Anita Singh,Sheo Mohan Prasad,Rajeev Pratap Singh,2016-12-28 This book is compilation of studies related with the xenobiotics i e chemical or other substance that is not normally found in the ecosystems and get accumulated at higher concentration in the biological system due to rampant industrialisation and urbanisation activities This book has tried to give information on various issues to give comprehensive and concise knowledge of the recent advancement in the field of environmental xenobiotics and how it disturbs the plants metabolism Other key features of the book are related to xenobiotic toxicity and detoxification mechanism

biochemical tools toward its remediation processes molecular mechanism for xenobiotics detoxification and effect on metallomics It also focuses on recent development in the field of waste water remediation concerned with the xenobiotics involvement This book is different in such a way that it includes all the initial information along with the new researches It includes the description of problem along with its solution This volume describe the effects of xenobiotics at different levels i e biochemical physiological and molecular giving the details on signaling pathways to modify the responses of xenobiotics in plant system Thus it gives confirming crosstalk between xenobiotic effects and signalling pathways This book includes description about both the organic contaminants such as pesticides solvents and petroleum products as well as inorganic xenobiotics that include heavy metals non metals metalloids and simple soluble salts Here the plant is main objective and that have to deal with these kinds of compounds either by avoiding accumulation of these compounds or by exhibiting several enzymatic reactions for detoxification including oxidation reduction and conjugation reactions Affected plants exhibit several enzymatic and non enzymatic antioxidant and other reactions for detoxification of ROS including oxidation reduction hydrolysis and conjugation reactions The book focuses on different forms and sources of xenobiotics including organic and inorganic xenobiotics The matter of this book will definitely increase the knowledge about the impacts of xenobiotics on plants system There must be potentially broad readership who could find this fruitful for their study as well as for their research As this book has balance between basic plant physiology and toxicity caused by the xenobiotics so it can be widely used in several disciplines Overall the book will bring deep knowledge in the field of xenobiotics toxicity in plants during recent years and it is definitely a compilation of interesting information which isn t fully covered elsewhere in the current market

The Role of Plankton in Freshwater and Marine Ecology Leonel Pereira, 2025-04-10 Although often invisible to the naked eye plankton are fundamental to aquatic ecosystems These microscopic organisms sustain intricate food webs and drive essential processes like carbon cycling and oxygen production profoundly influencing the planet This book explores their fascinating world combining cutting edge research with practical insights to highlight their ecological significance and innovative applications Divided into three thematic sections the book opens with an exploration of plankton ecology examining their diversity interactions and the environmental factors shaping their behavior Case studies illustrate long term shifts in phytoplankton communities and the triggers of harmful algal blooms providing a foundation for understanding global aquatic ecosystems The second section shifts to marine and coastal environments revealing the complex relationships between plankton and their habitats The final section presents innovations in plankton research covering mathematical models for optimizing cultivation and the discovery of commercially valuable bio compounds These innovations showcase how plankton science is addressing climate change resource scarcity and sustainability Authored by an international team of experts this book provides a comprehensive resource for researchers students and professionals in ecology environmental science and biotechnology By exploring both the ecological roles of plankton and their potential for innovation readers will

gain new insights into these microscopic organisms understanding their significant impact on the planet and their potential to drive sustainable solutions

Pollution Abstracts, 1996 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation

Terpenoids Bimal Krishna Banik, Biswa Mohan Sahoo, Abhishek Tiwari, 2022-12-23 This unique volume covers specific aspects of the biological chemistry of terpenoids It provides extensive information related to classification general methods of extraction and isolation of terpenoids synthesis and pharmacological activities of monoterpenoids synthesis and medicinal uses of diterpenoids biogenesis of terpenoids synthesis and medicinal uses of sesqui terpenoids and sesterpenoids Some terpenes are also classified as diterpene alkaloids Most of the terpenoids with diverse molecular structures are biologically active and are used for the treatment of various diseases such as cancer malaria inflammation tuberculosis and infection and this is discussed Features Activities and biological relationships of terpenes An accurate assessment of where and what terpenes can lead to Discusses how microbes in particular the actinomycetales have well over 400 different gene clusters that produce terpenes Arranged by biological activities and usage Provides information on eukaryotic enzymes that have been shown to be a source of ethnobotanical terpenes

Index Medicus, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Seagrasses: Biology, Ecology and Conservation Anthony Larkum, Robert J. Orth, Carlos Duarte, 2007-02-22 Seagrasses are unique plants the only group of flowering plants to recolonise the sea They occur on every continental margin except Antarctica and form ecosystems which have important roles in fisheries fish nursery grounds prawn fisheries habitat diversity and sediment stabilisation Over the last two decades there has been an explosion of research and information on all aspects of seagrass biology However the compilation of all this work into one book has not been attempted previously In this book experts in 26 areas of seagrass biology present their work in chapters which are state of the art and designed to be useful to students and researchers alike The book not only focuses on what has been discovered but what exciting areas are left to discover The book is divided into sections on taxonomy anatomy reproduction ecology physiology fisheries management conservation and landscape ecology It is destined to become the chosen text on seagrasses for any marine biology course

Contamination of Water Arif Ahamad, Sharf Elahi Siddiqui, Pardeep Singh, 2021-08-06 Water containing significant amounts of inorganic and organic contaminants can have serious environmental consequences and serious health implications when ingested Contamination of Water Health Risk Assessment and Treatment Strategies takes an interconnected look at the various pollutants the source of contamination the effects of contamination on aquatic ecosystems and human health and what the potential mitigation strategies are This book

is organized into three sections The first section examines the sources of potential contamination This includes considering the current scenario of heavy metal and pesticide contamination in water as well as the regions impacted due to industrialization mining or urbanization The second section goes on to discuss water contamination and health risks caused by toxic elements radiological contaminants microplastics and nanoparticles and pharmaceutical and personal care products This book concludes with a section exploring efficient low cost treatment technologies and remediation strategies that remove toxic pollutants from water Contamination of Water incorporates both theoretical and practical information that will be useful for researchers professors graduate students and professionals working on water contamination environmental and health impacts and the management and treatment of water resources Provides practical case studies of various types and sources of contamination Discusses inorganic and organic contaminants and their impact on human health Evaluates effective water treatment and remediation technologies to remove toxins from water and minimize risk

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