Spirulina Platensis Arthrospira Physiology Cell Biology And Biotechnology

Spirulina Platensis ArthrospiraThe Ecology of CyanobacteriaThe Physiology of MicroalgaeEcology of Cyanobacteria IIBlue BiotechnologySpirulina in Human Nutrition and HealthBiotechnology in the 21st CenturyCryptogams: AlgaeBiosciencesArchiv Für HydrobiologieFEMS Microbiology LettersWitthayāsān KasētsārtPlant Resources of South-East AsiaCyanoprokaryotaMarine CyanobacteriaFAO Fisheries and Aquaculture CircularTurkish Journal of BiologyCryptogamieInternational Symposium on Marine Biotechnology (ISMB 2000)Proceedings "Science and Technology for Global Ecology" Avigad Vonshak B.A. Whitton Michael A. Borowitzka Brian A. Whitton Stephane La Barre M. E. Gershwin W. F. Prud'homme van Reine W. F. Prud'homme van Reine Jiří Komárek Loïc Charpy

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this text contains detailed descriptions of both the biology and the biotechnological uses of spirulina platensis a blue green algae which has been recognized and used worldwide as a traditional source of protein in the food

cyanobacteria make a major contribution to world photosynthesis and nitrogen fixation but are also notorious for causing nuisances such as dense and often toxic blooms in lakes and the ocean the ecology of cyanobacteria their diversity in time and space is the first book to focus solely on ecological aspects of these organisms its twenty two chapters are written by some thirty authors who are leading experts in their particular subject the book begins with an overview of the cyanobacteria or blue green algae for those who are not specialists then looks at their diversity in the geological record and goes on to describe their ecology in present environments where they play important roles why is one of the key groups of organisms in the precambrian still one of the most important groups of phototrophs today the importance of ecological information for rational management and exploitation of these organisms for commercial and other practical purposes is also assessed accounts are provided of nuisances as well as the ecology of the commercially successful spirulina and the role of cyanobacteria in ecosystem recovery from oil pollution many chapters include aspects of physiology biochemistry geochemistry and molecular biology where these help general understanding of the subject in addition there are three

chapters dealing specifically with molecular ecology thirty two pages of colour photos incorporate about seventy views and light micrographs these features make the book valuable to a wide readership including biologists microbiologists geologists water managers and environmental consultants the book complements the highly successful the molecular biology of cyanobacteria already published by kluwer

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 the field or for commercial applications it is aimed at new entrants into the field i e 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

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 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

with its integral treatment of ecosystem and resource management this is the only overview of the field to address current thinking and future trends all contributions have been written with the novice in mind explaining the basics and highlighting recent developments and achievements unmatched in scope this two volume reference covers both traditional and well established areas of marine biotechnology such as biomass production alongside such novel ones as biofuels biological protection of structures and bioinspired materials in so doing it ties together information usually only found in widely dispersed sources to assemble a grand unified view of the current state of and prospects for this multi faceted discipline the combination of the breadth of topics and the focus on modern ideas make this introductory book especially suitable for teaching purposes and for guiding newcomers to the many possibilities offered by this booming field

astonishingly rich in nutrients spirulina is one of the most popular and well researched functional foods in the multi billion dollar global food supplement market this ancient species provides readily bioavailable protein along with carotenoids essential fatty acids vitamins

and minerals and has therapeutic applications in non communicable di

an international journal providing for the rapid publication of short reports on microbiological research

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