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Biology of the Cyanobacteria. Although the It appears that cyanobacterial molecular biologists intervening period had been marked by heated debates have indeed paid attention to the admonition of their over the taxonomy and taxonomic position of the erstwhile colleague, W Ford Doolittle, to 'study organisms, it was also a time when the comparative those things that cyanobacteria do well ...

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The Cyanobacteria: Molecular Biology, Genomics and Evolution
The Molecular Biology of Cyanobacteria Edited by Donald A. Bryant Department of Biochemistry and Molecular Biology The Pennsylvania State University, University Park Pennsylvania, U.S.A. KLUWER ACADEMIC PUBLISHERS DORDRECHT / BOSTON / LONDON. Contents Preface xiii Color Plates CP-1 1 Molecular Evolution and Taxonomy of the Cyanobacteria 1-25 Annick Wilmotte Summary 2 I. Introduction 2 II ...

The Molecular Biology of Cyanobacteria
Cyanobacteria thrive in every illuminated aquatic environment known, contributing at least 25% of primary productivity worldwide. Given their importance in carbon and nutrient cycles, cyanobacteria are essential geochemical agents that have shaped the composition of the Earth's crust, oceans and atmosphere for billions of years. The high diversity of cyanobacteria is reflected in the panoply ...

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Molecular biology has provided new tools to decipher genetic information and can be used in attempts to reconstruct the evolution of organisms and improve their taxonomy. In the cyanobacteria, the use of molecular methods to study the genotypic relationships is underway, and initial results are promising. Different chemotaxonomic and ...

Molecular Evolution and Taxonomy of the Cyanobacteria ...
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The Molecular Biology of Cyanobacteria summarizes more than a decade of progress in analyzing the taxonomy, biochemistry, physiology, cellular differentiation and developmental biology of cyanobacteria by modern molecular methods, especially molecular genetics. During this period cyanobacterial molecular biologists have been `studying those things that cyanobacteria do well', and they have ...

The Molecular Biology of Cyanobacteria (eBook, 1994 ...
Cyanobacteria have played a significant role in Earth history as primary producers and the ultimate source of atmospheric oxygen. To date, however, how and when the group diversified has remained unclear. Here, we combine molecular phylogenetic and paleontological studies to elucidate the pattern and timing of early cyanobacterial diversification. 16S rRNA, rbcL , and hetR genes were sequenced ...

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More than twenty years ago, as a fledgling graduate some peculiar aspects of the genetics of these student who was just starting to learn about these organisms but to pay respects to the two volumes of organisms that would become my primary research Carr of Whitton that played important roles in my focus, the publication of Noel Carr and Brian own thinking about cyanobacteria (and no doubt in Whitton's The Biology of the Blue-Green Algae in the development of many others as well). Contri 1973 was an event of great significance. Until the buting authors were asked to describe not only what appearance of this treatise, there was no single volume we know at present, but also to point out things we available that presented a broad overview of the don't know yet. I have attempted to assemble a book biology and biochemistry ofthese organisms. Nearly that would stimulate graduate students and other ten years later, I was privileged to be a contributing researchers in the same way that I was affected by the author to Carr and Whitton's sequel volume The books mentioned above. Biology of the Cyanobacteria. Although the It appears that cyanobacterial molecular biologists intervening period had been marked by heated debates have indeed paid attention to the admonition of their over the taxonomy and taxonomic position of the erstwhile colleague, W Ford Doolittle, to 'study organisms, it was also a time when the comparative those things that cyanobacteria do well.

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 ecophysiologies important for understanding climate impacts and potential remediation. Stress Biology of Cyanobacteria: Molecular Mechanisms to Cellular Responses is a compilation of holistic responses of cyanobacteria, ranging from ecological and physiological to the modern aspects of their molecular biology, genomics, and biochemistry. Covering almost every aspect of cyanobacterial stress biology, this book is divided into two parts: Bioenergetics and Molecular Mechanisms of Stress Tolerance and Cellular Responses and Ecophysiology. The first few chapters focus on the molecular bioenergetics of photosynthesis and respiration in cyanobacteria, and provide a clear perspective on different stress tolerance mechanisms. Part I also covers the effect of specific stresses—including heavy metal, high and low temperature, salt, osmotic, and UV-B stress—on a wide range of vital physiological, biochemical, and molecular processes of cyanobacteria. Part II describes mechanisms of symbiosis, stress-induced bioproducts, and the role of environmental factors on nitrogen fixation, which along with photosynthesis is a major contributor to the current geochemical status of the planet. The text also covers mutation and cyanobacterial adaptation, and the most widely studied cyanotoxin, microcystin, which has effects on both human and animal health. With contributions from experts around the world, representing the global importance of cyanobacteria, this book provides a broad compilation of research that deals with cyanobacterial stress responses in both controlled laboratory conditions as well as in their natural environment.

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.

Advances in Cyanobacterial Biology presents the novel, practical, and theoretical aspects of cyanobacteria, providing a better understanding of basic and advanced biotechnological application in the field of sustainable agriculture. Chapters have been designed to deal with the different aspects of cyanobacteria including their role in the evolution of life, cyanobacterial diversity and classification, isolation, and characterization of cyanobacteria through biochemical and molecular approaches, phylogeny and biogeography of cyanobacteria, symbiosis, Cyanobacterial photosynthesis, morphological and physiological adaptation to abiotic stresses, stress-tolerant cyanobacterium, biological nitrogen fixation. Other topics include circadian rhythms, genetics and molecular biology of abiotic stress responses, application of cyanobacteria and cyanobacterial mats in wastewater treatments, use as a source of novel stress-responsive genes for development of stress tolerance and as a source of biofuels, industrial application, as biofertilizer, cyanobacterial blooms, use in Nano-technology and nanomedicines as well as potential applications. This book will be important for academics and researchers working in cyanobacteria, cyanobacterial environmental biology, cyanobacterial agriculture and cyanobacterial molecular biologists. Summarizes the various aspects of cyanobacterial research, from primary nitrogen fixation, to advanced nano-technology applications Addresses both practical and theoretical aspects of the cyanobacterial application Includes coverage of biochemical and molecular approaches for the identification, use and management of cyanobacteria

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

Xvii, 172 leaves, bound ill. 29 cm.

Cyanobacterial Lifestyle and its Applications in Biotechnology discusses the different aspects of cyanobacteria, with an aim of helping readers better understand advanced cyanobacterial molecular biology aspects that will allow us to uncover the potential of cyanobacteria in the tailoring of stress smart crops for sustainable agriculture. Chapters deal with the different aspects of cyanobacteria and discuss diverse cyanobacterial communities that have the ability to fix atmospheric nitrogen with their photosynthetic properties and applications in field conditions. The book discusses several cyanobacterial species that have been exploited to enhance soil fertility, mitigate biotic and abiotic stress, and provide contamination management. This book tackles the urgent need to explore cyanobacterial metabolism under stress as well as their regulatory pathways for sustainable agriculture. In recent decades, the application of cyanobacteria has attracted the scientists because of uniqueness, better adaptability, and synthetic products, hence this book provides a timely resource on the topic. Presents molecular approaches on the identification of cyanobacteria and their evolution Expands our horizon on the topics of cyanobacterial lifestyle and stress management Includes cyanobacterial photosynthesis research Discusses metabolic engineering in cyanobacteria

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