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The first few chapters focus on the
molecular bioenergetics of
photosynthesis and respiration in
cyanobacteria, and provide a clear

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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 ...

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Systemic analysis of stress-induced transcription in the cyanobacterium *Synechocystis* sp. strain PCC 6803 identifies a number of genes as being induced in response to most abiotic stressors (heat, osmotic, saline, acid stress, strong light, and ultraviolet radiation). Genes for heat-shock proteins (HSPs) are activated by all these stresses and form a group that universally responds to all ...

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**Universal Molecular Triggers of
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Stress response in cyanobacteria
Maryam Rezayian*, Vahid Niknam, and
Hassan Ebrahimzadeh Department of
Plant Biology and Center of Excellence in
Phylogeny of Living Organisms in Iran,
School of Biology, College of Science,
University of Tehran, Tehran 14155, Iran
_____ Abstract Cyanobacteria are an
important source of natural products.

Stress response in cyanobacteria
Molecular biology of cyanobacterial salt
acclimation. ... cyanobacteria have
adapted to aquatic habitats with various
salt concentrations. ... using salt-
resistant strains of cyanobacteria for the
production of bioenergy, and applying
cyanobacterial stress genes to improve
the salt tolerance of sensitive organisms.

**Molecular biology of cyanobacterial
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Cyanobacteria, the only prokaryotes
performing oxygenic photosynthesis and

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probable ancestors of chloroplasts, constitute valuable models for the study of the molecular mechanisms involved in tolerance to high salinity, or to its corollary, drought, a major agricultural problem.

Dynamics of the response of cyanobacteria to salt stress ...

e Review Universal Molecular Triggers of Stress Responses in Cyanobacterium Synechocystis Kirill S. Mironov 1, Maria A. Sinetova 1, Maria Shumskaya 2 and Dmitry A. Los 1,* 1 Department of Molecular Biosystems, K.A. Timiryazev Institute of Plant Physiology, Russian Academy of Sciences, Botanicheskaya street 35, 127276 Moscow, Russian

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Lionard et al. examine the composition of an arctic microbial mat, and demonstrate the robust adaptation of the cyanobacteria to osmotic stress, a likely outcome of climate change. The

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characterization of chlorophyll- b containing Prochlorothrix spp. by Pinevich et al. (2012) indicate that despite the scarcity of this genus in aquatic environments, molecular methods suggest it is more widely ...

Physiology and molecular biology of aquatic cyanobacteria

Stress Biology of Cyanobacteria : Molecular Mechanisms to Cellular Responses, Hardcover by Srivastava, Ashish, Kumar (EDT); Rai, Amar Nath (EDT); Neilan, Brett A. (EDT), ISBN 1466504781, ISBN-13 9781466504783, Brand New, Free shipping "This book compiles the holistic responses of cyanobacteria, ranging from ecological and physiological to the modern aspects of their molecular biology, genomics ...

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Cyanobacteria : Molecular Mechanisms
to Cellular Responses.. [Ashish Kumar
Srivastava] -- 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. ...

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The cyanobacteria and prochloroaceae
are the only prokaryotic groups that

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share the use of photosystems I and II and hence the ability to carry out oxygenic photosynthesis with all photosynthetic eukaryotic organisms (Stanier, 1977). The structure of the reaction center complexes seems to be evolutionarily conserved in all these organisms, but there is a large diversity in their antenna ...

The Cyanobacteria—Ecology, Physiology and Molecular ...

The molecular mechanism for Cl⁻ export is still unknown among cyanobacteria. As it is negatively charged, an electrogenic export via Cl⁻ channels, such as in mammalian cells, is most likely. Because of sequence similarities to eukaryotic Cl⁻ channels, one gene (sll 1864) was annotated as a putative Cl⁻ channel in *Synechocystis* 6803.

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