



# Handbook of Cyanobacteria

*T. A. Sarma*

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This handbook acquaints readers with the exciting developments in various areas of cyanobacterial research in the backdrop of the publication of complete genome sequence of the cyanobacterium *Synechocystis sp.* strain PCC 6803 in 1996. It begins with a summary of the current knowledge on the taxonomy, phylogeny and evolution of cyanobacteria followed by the sequenced genomes, differentiation of akinetes and heterocyst. The book considers mechanisms of cellular movements (gliding, swimming and twitching motions) exhibited by various cyanobacteria in order to adjust to their environmental niches and the operation of the circadian rhythms. It covers cyanobacterial symbiosis, cyanophages and cyanobacterial toxins, followed by a discussion on stress responses (salinity, temperature, desiccation and oxidation).

A comprehensive account on the developments in all these spheres has been presented in a lucid style with the required background information, molecular techniques employed and models proposed. This handbook constitutes the first such book written by a single author at a level and depth for graduate and research students in botany and microbiology.

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