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Genetic Analysis of Toxin-Producing Cyanobacteria

Guest Editor:

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Message from the Guest Editor

Cyanobacteria make up a fascinating group of photosynthetic prokaryotes that are able to produce a wide range of bioactive compounds. However, their worldwide distribution brings special worries for the environment and public health due to the toxicity of some of these compounds.

The analyses of the cyanobacterial genomes has been unravelling the gene clusters involved in many toxins produced by cyanobacteria (cyanotoxins). This research has enabled us to understand the phylogenetic origins of some of the cyanotoxins, the genetic differences between toxic and nontoxic strains, and the development of methodologies to quickly and easily detect toxin-producing cyanobacteria. Moreover, there are growing efforts taking place to understanding how environmental factors influence the expression of cyanotoxin-related genes.

This Special Issue aims to aggregate papers that provide the most recent information on genetic analyses of toxin-producing cyanobacteria through molecular approaches such as 'whole-genome sequencing', metagenomics, qPCR or PCR.

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Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

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