



Toxic Cyanobacteria and Toxins in Rare Environments

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Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Cyanobacteria are well-known to inhabit and thrive in a wide variety of environments, however studies of these organisms and their metabolites are still very scarce in rare and extreme environments. Cyanobacteria endure in several extreme environments, from light scarcity, extreme temperatures (thermal to polar cold), hypersalinity, and water scarcity (arid). They also inhabit some rare environments, such as brackish waters, the deep sea, and terrestrial environments (e.g., high altitude, rocks, caves, trees, algae, and lichens). These are still very understudied habitats, mainly on toxicology and metabolomics. Toxic metabolites are important due to their impacts on public and environmental health and their biotechnological potential. Nonetheless, most reports are mainly from freshwaters, hence the need and undiscovered potential of upcoming toxic metabolites from extremophiles and cyanobacteria in rare environments.

Keywords

- cyanometabolites
- cyanotoxins
- extreme, benthic
- saxitoxin
- cylindrospermopsin
- anatoxin-a
- microcystin
- nodularins
- anabaenopeptins





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