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Cyanobacterial Toxins: Genotoxic and Cytotoxic Activity, Molecular Targets and Chemical Interactions

Guest Editors:

Dr. Bojana Žegura
Department of Genetic Toxicology and Cancer Biology, National Institute of Biology, Večna pot 121, SI-1000 Ljubljana, Slovenia

Dr. Alja Štern
1. Department of Genetic Toxicology and Cancer Biology, National Institute of Biology, Večna pot 121, 1000 Ljubljana, Slovenia
2. Biotechnical Faculty, University of Ljubljana, Jamnikarjeva ulica 101, Ljubljana, Slovenia

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Message from the Guest Editors

Cyanobacteria are becoming a global environmental and human health problem as cyanobacterial blooms are increasing in frequency and magnitude worldwide, due to progressive eutrophication of water bodies and climate change. They produce a wide range of bioactive compounds including highly toxic cyanotoxins. Concern about their potential adverse effects, particularly after chronic exposure to low doses has been raised. The mechanisms behind the toxic effects of cyanotoxins differ according to their chemical structure and molecular targets. In order to set the appropriate safety measures for the protection of human and animal health, as well as the environment throughout, toxicological evaluation of the emerging cyanotoxins is urgently needed. The Special Issue will highlight research on cellular and molecular mechanisms behind the geno/toxic activity of cyanotoxins as pure compounds and complex mixtures. Moreover, papers describing novel predictive biomarkers of cyanotoxin geno/toxic effects identified by traditional toxicological approaches correlated to 'omics' data are welcome.

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Editor-in-Chief

Prof. Dr. Jay Fox
Department of Microbiology,
University of Virginia,
Charlottesville, VA, USA

Message from the Editor-in-Chief

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Contact Us

Toxins Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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