

Special Issue on
Toxic Effects of Metals and Metalloids in Aquatic Organisms

CALL FOR PAPERS

Metal(loid)s are ubiquitous in our environment and have been used for many different applications for thousands of years. Although adverse health effects of metal(loid)s have been known for a long time, environmental exposure to metal(loid)s is still a concern and is even increasing in some areas, representing a high potential risk to human and aquatic biota. The recognition of metals as priority hazardous contaminants is mainly due to their persistence, tendency to bioaccumulate and biomagnify, and high toxicity to living organisms. While the mechanisms of toxicity of several metal(loid)s have been largely disclosed in mammals, this knowledge in aquatic species remains elusive. Considering that the aquatic systems are the final reservoir for trace elements, it is crucial to clarify the mechanisms of toxicity of metal(loid)s in aquatic biota.

In this special issue, papers focusing on the biological effects and toxic mechanisms of metals and metalloids in each variety of forms, that is, ions, metallic nanoparticles, and so on, are appreciated. Researchers are invited to contribute with review and original research articles describing recent findings and future perspectives in the field of the toxic effects of metals and metalloids on the health of aquatic organisms.

Potential topics include but are not limited to the following:

- ▶ Biological, physiological, and behavioural responses of aquatic organisms to metals, metalloids, and/or metallic nanoparticles
- ▶ Field and laboratory studies of metal exposure
- ▶ New techniques for assessing potential toxicity of metals, including “-omics” approaches
- ▶ Fate, detoxification, and mechanisms of action and toxicity
- ▶ Interactions of metal(loid)s with multiple stressors, including physicochemical conditions, and their resulting biological effects, namely, in complex transition systems
- ▶ Strategies of remediation of metal-contaminated environments and the recovery of impacted organisms

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/toxicology/temm/>.

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Manuscript Due

Friday, 19 May 2017

First Round of Reviews

Friday, 11 August 2017

Publication Date

Friday, 6 October 2017