



BioMed Research International

Special Issue on
**Biomarkers of Oxidative Stress: Interplay between
Salinity and Toxicity**

CALL FOR PAPERS

Toxicity is the degree to which a substance can damage an organism. This damage causes biochemical, physiological, or histological change in this organism. Many of the biological, chemical, or physical agents can cause this adverse effect in the absence of its control. Thus, it has been predicted that decreasing salinity can increase the toxicant effects. On the other hand, the effect of salinity on toxicity of chemicals has showed several approaches, negative, no correlation, or positive. In addition, the salinity of soil or water can be a powerful abiotic stressor that modifies the important mechanisms to develop the organisms in different organizational levels. Therefore, the understanding of the salinity effects and its relation with toxicity should be more investigated. The biomarkers of oxidative stress are a first step for this. Moreover, the molecular mechanisms responsible or involved in this process, yet, remain unclear.

The purpose of this special issue is to publish high-quality research papers and review articles on topic relevant to the salinity effects on toxic agents and how the biomarkers of oxidative stress respond in this context. Original, high quality contributions that are not yet published or that are not under review by other journals or peer-reviewed conferences are sought.

Potential topics include, but are not limited to:

- ▶ New sensing models to explain the salinity effects on the health of different organisms
- ▶ Responses of the biomarkers of oxidative stress to salinity associated with toxicant agents
- ▶ Changes in the physiological status of organisms vis-a-vis oxidative stress responses
- ▶ Molecular and cellular mechanisms responsible for contributing to a toxicity minimization in salinity environments
- ▶ Salinity-induced biochemical, physiological, and molecular changes in different organisms, including vertebrates, invertebrates, and plants
- ▶ The influence of salinity on the toxicity of chemical and biological agents

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

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