

Special Issue on **Metal and Metalloid-Induced Oxidative Damage: Biological Importance of Potential Antioxidants**

CALL FOR PAPERS

The current economic system has led to a lack of environmental and social responsibilities by industries and big corporations. As a result, natural environment has been repeatedly polluted jeopardizing the well-being of all living organisms. The toxic effects of metals and metalloids have been recognized for quite some time to generate several free radicals and other reactive species that lead to cellular oxidative stress. Due to their extreme potential to cause oxidative damage, the identification of new potential competitive-protective agents is imperative.

We invite authors to contribute original research manuscripts and reviews that will contribute to the existing scientific literature on the mechanisms behind the oxidative damage induced by metals and metalloids. In addition, studies evaluating antioxidants as protective agents will motivate the ongoing effort to better understand the toxicological potential of metals and metalloids and how such biological protection occurs.

Potential topics include but are not limited to the following:

- ▶ Structural, functional, biochemical, and molecular oxidative stress related effects of metals and metalloids
- ▶ Role of compounds showing antioxidant properties against metal and metalloid-induced toxicity
- ▶ Relevance of antioxidant for prevention and treatment of metal and metalloid intoxication
- ▶ Mechanisms of action of isolated novel antioxidants
- ▶ Cellular and molecular effects of metals and metalloids upon redox system in vitro and in vivo studies
- ▶ Studies using alternative methods in toxicology evaluation

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/omcl/mmiod/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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