



## Oxidative Stress Response in a Wide Variety of Insect Species

Guest Editor:

### **Dr. Hiroko Tabunoki**

Cooperative Major in Advanced Health Science, Graduate School of Bio-Applications and System Engineering, Tokyo University of Agriculture and Technology, Tokyo 183-8509, Japan

Deadline for manuscript submissions:

**closed (31 July 2021)**

### **Message from the Guest Editor**

Insects include over one million species worldwide. This implies that insects have been able to expand their habitats on earth and that they adapt well to their environmental conditions. Therefore, we can find insects anytime and anywhere in the world. Moreover, insects are exposed to a variety of environmental stresses in nature. These environmental stressors cause the production of reactive oxygen species (ROS). Each insect differs in its morphology, size, food habits, and resistance to environmental changes, and is, therefore, expected to respond differently to oxidative stress. Thus, insects should exhibit diverse strategies against this type of stress. I expect that the study of the oxidative stress response in the various insect species will lead to the elucidation of the environmental adaptation ability that was acquired by insects during evolution. Therefore, the study of the mechanism underlying the oxidative stress response in various insect species is warranted. I speculate that each insect species possesses a specific system dedicated to resistance against ROS. I invite research and review papers related to oxidative stress response in diverse insect species.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Alessandra  
Napolitano**

Department of Chemical  
Sciences, University of Naples  
"Federico II", Via Cintia 4, I-80126  
Naples, Italy

## Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [FSTA](#), [PubAg](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (*Food Science & Technology*) / CiteScore - Q1 (*Food Science*)

## Contact Us

*Antioxidants* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/antioxidants](http://mdpi.com/journal/antioxidants)  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)  
[X@antioxidants\\_OA](#)