



## Post-Translational Protein Modifications in Oxidative Stress

Guest Editor:

**Dr. Klaus Klarskov**

Centre Hospitalier Universitaire  
de Sherbrooke, Sherbrooke, QC,  
Canada

Deadline for manuscript  
submissions:

**closed (31 March 2019)**

### Message from the Guest Editor

Numerous post translational protein modifications play crucial roles in the cellular redox balance and are known to be implicated in many diseases. Some of the most well-known modifications are induced by reactive oxygen and nitrogen species, which generates a wide range of adducts that preferentially target cysteine thiols. In addition, there are many more modifications, i.e., S- and N-homocysteinylation, S-glutathionylation, including protein carbonylation, which are known either to deregulate redox state or to be of importance for maintaining cellular homeostasis. Not only endogenous radicals and compounds cause protein modifications associated with oxidative stress, but also exogenous compounds from food products such as sulfites can potentially play a significant role.

The aim of this Issue is to consolidate up-to-date research and knowledge on post-translational modifications associated with oxidative stress. Of interest are the development of new approaches and applications of already well-known methods to determine the role and significance of these modifications in disease.





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](#)