



## Lipid-Binding Proteins and Oxidative Stress in Health and Disease

Guest Editors:

**Dr. Diego Sánchez**

Departamento de Bioquímica y  
Biología Molecular y Fisiología,  
Instituto de Biología y Genética  
Molecular, Universidad de  
Valladolid-CSIC, Valladolid, Spain

**Dr. Mario Ruiz**

Department of Chemistry and  
Molecular Biology, University of  
Gothenburg, Gothenburg,  
Sweden

**Dr. Bo Åkerström**

Department of Clinical Sciences,  
Section for Infection Medicine,  
Lund University, Lund, Sweden

Deadline for manuscript  
submissions:

**closed (15 October 2022)**

### Message from the Guest Editors

Dear Colleagues,

Alterations in the homeostasis of lipids due to their oxidation are related to physiological aging; this is a recognized basis for inflammation and many human diseases. Lipid peroxidation by reactive species yields toxic by-products that, in turn, alter the structure and function of many biomolecules. A number of lipid-binding proteins are reported to show antioxidant capabilities. For example, some proteins bind sensitive lipids and shield them to prevent oxidation, whereas other proteins are able to bind oxidized lipids and enzymatically reduce them. Additionally, some protein biological functions are susceptible of the effects of oxidation. It is therefore critical to understand the antioxidant properties of lipid-binding proteins, as well as to evaluate the significance of their oxidative modifications, to properly assay the relevance of extrinsic antioxidants used as therapeutic agents in human diseases.

We aim to assemble original research articles reporting experimental data on the mechanistic roles of lipid-binding proteins when protecting cells against oxidative stress.





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## 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.

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

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