

## Special Issue

# Cellular and Molecular Mechanisms in Oxidative Stress-Related Diseases

### Message from the Guest Editors

Oxidative stress (OS) is frequently described as the balance between production of reactive species (RS), including oxygen and nitrogen, in biological systems and the ability of the latter to defend through the sophisticated antioxidant machinery. At physiological levels, some oxidants in controlled amounts, possess an important signaling functions within the cell. Oxidative products are highly reactive, and can directly or indirectly modulate the functions of many enzymes and transcription factors through a complex signaling cascades.

The aim of this special issue is to collect and contribute to the dissemination of high quality research articles, as well as review articles, focusing on the relationship between oxidative stress-related diseases and cellular responses in different pathologies, including ischemic stroke, diabetes, kidney disease, cardiovascular and neurodegenerative diseases. In addition, molecular targets of cellular membrane, as well as their potential modulation under oxidative stress will be also considered, in an attempt to provide more information about cell response to oxidative stress and its possible modulation by novel pharmacological strategies.

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### Guest Editors

Dr. Rossana Morabito

Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, 98166 Messina, Italy

Dr. Alessia Remigante

Department of Biomedical, Dental and Morphological and Functional Imaging, University of Messina, Messina, Italy

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### Deadline for manuscript submissions

closed (20 June 2022)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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Prof. Dr. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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