

## 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

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### Deadline for manuscript submissions

closed (20 June 2022)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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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### Editor-in-Chief

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