

## Special Issue

# ROS Signalling and Cell Turnover

### Message from the Guest Editor

Reactive oxygen species (ROS) are a group of chemically reactive molecules that are crucial in controlling metabolic pathways. Several normal biochemical processes lead to the formation of ROS, which are counteracted by antioxidant systems that keep ROS levels low. Importantly, ROS are essential second messengers that regulate multiple signal transduction pathways and, in this way, control cell fate. ROS exert their function by modifying the redox state of cysteine residues in transducing proteins, including protein kinases and transcription factors. Thus, critical decisions on cell fate, such as cell division, survival, or activation of cell death programs, depend on ROS levels, which result from a delicate balance between ROS-producing and ROS-scavenging pathways. ROS also plays a fundamental role in inflammation, immune response, cancer, and cardiovascular and neurodegenerative diseases. This Special Issue will focus on redox homeostasis in physiology and diseases. Original manuscripts and reviews covering these topics are welcome.

### Guest Editor

Dr. Micol Silic-Benussi

Immunology and Molecular Oncology Unit, Veneto Institute of Oncology IOV-IRCCS, 35128 Padova, Italy

### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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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

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