

## Special Issue

# Redox Regulation of Protein Functioning

### Message from the Guest Editor

Reactive oxygen species (ROS) as well as their derivatives play a key role in signaling under normal and oxidative stress conditions in all aerobic living organisms. Most of intra- and intercellular signaling cascades interfere with the ROS-mediated pathways or can be affected by these highly reactive molecules. The molecular mechanisms of ROS signaling are commonly based on protein sensing that results in modifications affecting their structure and function. This Special Issue is looking for reviews and original papers covering a wide range of topics related to redox-dependent regulation of protein functioning. We will also consider papers reporting new insights into the development of redox-sensitive enzymes and proteins for practical use.

### Guest Editor

Prof. Dr. Andrey Zamyatnin

1. Institute of Molecular Medicine, Sechenov First Moscow State Medical University, 119991 Moscow, Russia
2. Scientific Center for Translation Medicine, Sirius University of Science and Technology, 354340 Sochi, Russia
3. Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University, 119992 Moscow, Russia
4. Faculty of Health and Medical Sciences, University of Surrey, Guildford GU2 7X, UK

### Deadline for manuscript submissions

closed (20 October 2022)



## Biomolecules

an Open Access Journal  
by MDPI

Impact Factor 5.6  
CiteScore 9.3  
Indexed in PubMed



[mdpi.com/si/28954](https://mdpi.com/si/28954)

*Biomolecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biomolecules@mdpi.com](mailto:biomolecules@mdpi.com)

[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)





# Biomolecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.6  
CiteScore 9.3  
Indexed in PubMed



[mdpi.com/journal/  
biomolecules](https://mdpi.com/journal/biomolecules)



## About the Journal

### Message from the Editorial Board

#### *Biomolecules*

(<https://www.mdpi.com/journal/biomolecules>) is an international, peer-reviewed, open access journal focusing on biogenic substances, and published online by MDPI. *Biomolecules* is indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, and CAPIus / SciFinder. The Impact Factor (2024) is 4.8, ranking 75/319 (Q1) in “Biochemistry & Molecular Biology”.

---

### Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

---

### 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, MEDLINE, PMC, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)