Special Issue

The Physiological and Pathological New Function of Mitochondrial ROS and Intraorganellar Cross-Talks

Message from the Guest Editors

Thijsj G. Rttema described “Mitochondria in the second act”, citing Pittis and Gabaldón (page 101), who provide evidence that the host cell from which eukaryotes evolved was already genetically chimaeric before the mitochondrial symbiosis, suggesting that mitochondria evolved later in eukaryotic evolution than was previously presumed (https://www.nature.com/articles/nature16876; Nature volume 531, pages 39–40 (03 March 2016)). This means that when mitochondria are established, it is possible to commence cross-talk between mitochondria and other organelles. [...] A recent study has described that ROS generated from mitochondria initiate cellular transduction in cytosol (Indo et al. Handb Exp Pharmacol. 2017). In this Special Issue, the further roles of mitochondria-generated ROS and the subsequent intraorganellar cross-talks, signal exchange, and protein import will be important to retain cellular networks and homeostasis. We aim to establish a new world of cellular functions.

Guest Editors

Prof. Dr. Hideyuki J. Majima

School of Allied Health Sciences, Walailak University, Nakhon Si Thammarat 80160, Thailand

Prof. Dr. Ken Itoh

Department of Stress Response Science, Center for Advanced Medical Sciences, Hirosaki University Graduate School of Medicine, 5 Zaifucho, Hirosaki 036-8562, Japan

Deadline for manuscript submissions

closed (3 April 2023)

Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed

mdpi.com/si/129443

Biomolecules
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

mdpi.com/journal/biomolecules

Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.4
Indexed in PubMed

mdpi.com/journal/biomolecules

About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

MDPI