







an Open Access Journal by MDPI

# **Mitophagy: From Molecular Mechanisms to Diseases**

Guest Editors:

### **Dr. Nadine Camougrand**

Institut de Biochimie et Génétique Cellulaires, CNRS and Bordeaux University, 1 rue Camille Saint Saëns, 33000 Bordeaux, France

### Dr. Ingrid Bhtia-Kissova

Department of Biochemistry, Faculty of Nature Science, Comenius University, Ilkovicova 6, 84315 Bratislava, Slovakia

Deadline for manuscript submissions:

closed (30 November 2021)

## **Message from the Guest Editors**

As crucial organelles broadly dispersed in most eukaryotic cells. mitochondria are indispensable for various cellular processes. The process of mitophagy, in mitochondria are selectively targeted for degradation in autolysosomes or vacuoles, plays a central role in old or damaged mitochondria, eliminating maintaining the integrity of the mitochondrial pool. Nonetheless, mitophagy also promotes a reduction of the overall mitochondrial mass as an adaptive response to certain physiological stresses, such as hypoxia, nutrient deprivation, and DNA damage. Therefore, the appropriate regulation of mitochondrial quality, which includes the timely removal of unhealthy mitochondria and the maintenance of steady mitochondrial turnover, is essential for various physiological and pathological processes.

This special issue welcomes papers covering all aspects of mitophagy in different models (yeast, plants, C. elegans, Drosophila, and mammals). We also invite submissions that highlight the current knowledge of molecular mechanisms that regulate mitophagy and provide insight into the role that mitophagy plays in pathophysiological conditions and aging.













an Open Access Journal by MDPI

## **Editors-in-Chief**

## Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE, Minneapolis, MN 55455, USA

#### Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

## **Message from the Editorial Board**

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. Cells encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

## **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, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (*General Biochemistry, Genetics and Molecular Biology*)

#### **Contact Us**