

Special Issue

Mitophagy in Neurodegeneration and Aging

Message from the Guest Editors

Mitophagy is a type of selective autophagy that exclusively degrades damaged mitochondria or parts of them. Specifically, mitophagy is necessary to restore the mitochondrial steady state, regulating the mitochondrial population based on the metabolic demand or removing damaged mitochondria. Regarding this, failure of this mechanism can lead to neurodegeneration and aging. Strategies aimed at re-establishing these alterations could have beneficial effects. The goal of this Special Issue is, therefore, to highlight the role of mitophagy in chronic diseases such as neurodegenerative diseases and processes related to pathological aging. Here, we compile original manuscripts and review articles from outstanding experts in this field, covering the current state-of-the-art on the involvement of this catabolic process in the neurodegenerative and aging processes. Contributions that outline and review the key questions that still remain regarding the molecular mechanisms of mitophagy leading to the pathological course of these processes, as well as the translational applications of mitophagy-inducing compounds, are very welcome.

Guest Editors

Dr. Rosa A. Gonzalez-Polo

Dr. Patricia Gomez-Suaga

Dr. Mireia Niso-Santano

Deadline for manuscript submissions

closed (31 December 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/121725

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

Journal Rank:

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