

## 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

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### Editor-in-Chief

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