

Special Issue

Cell Organelle Stress Responses and Implications in Human Diseases

Message from the Guest Editor

Cellular organelles are specialized structures within cells that perform distinct functions necessary for cell survival and homeostasis. Examples of these include the endoplasmic reticulum (ER), the mitochondria, the lysosomes, the Golgi apparatus, and the nucleus. Each organelle faces various stress conditions that can disrupt its normal function, leading to a cascade of cellular dysfunctions. Organelle stress responses are adaptive mechanisms that cells employ to cope with and mitigate the detrimental effects of stress and are crucial to maintaining cellular homeostasis and preventing cell death. However, chronic or overwhelming stress can lead to pathological conditions and contribute to the development of various human diseases. This Special Issue aims to explore the diverse mechanisms of organelle stress responses and their implications in various human diseases. By understanding how different organelles respond to stress and the pathological consequences of these responses, we can identify novel therapeutic targets and strategies to treat or prevent diseases associated with organelle dysfunction.

Guest Editor

Dr. Jaeseok Han

Soonchunhyang Institute of Medi-Bio Science (SIMS), Soonchunhyang University, Cheonan 31151, Republic of Korea

Deadline for manuscript submissions

closed (20 May 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/208740

*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)