

## Special Issue

# Stress-Activated Molecular Remodeling: Lipids, Chaperones, and the Cytoskeleton

### Message from the Guest Editor

By highlighting emerging research on the crosstalk between structural and functional elements of stressed cells, this Special Issue aims to bridge basic molecular mechanisms with translational insights, bringing together perspectives from biochemistry, cell biology, biophysics, and disease modeling. We invite original research articles and reviews exploring how cells dynamically remodel molecular systems in response to stress. This Special Issue focuses on the interplay between lipid signaling, membrane dynamics, cytoskeletal reorganization, and chaperone function, and how these processes contribute to cellular adaptation, survival, and disease. Submissions with mechanistic insights or translational relevance to conditions such as cancer, neurodegeneration, infection, or inflammation are especially welcome. Topics include (but are not limited to) the following: - Membrane and lipid remodeling under stress; - Chaperone function and proteostasis; - Cytoskeletal dynamics and mechano-signaling; - Membrane–protein interactions and trafficking; - Stress responses in human disease models.

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### Guest Editor

Dr. Nikolas Nikolaidis

Department of Biological Science, Center for Applied Biotechnology Studies, and Center for Computational and Applied Mathematics, California State University Fullerton, Fullerton, CA 92831, USA

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### Deadline for manuscript submissions

closed (20 May 2026)



## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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### 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.

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Department of Physiology, Institute of Nutrition and Food Technology  
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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