

## Special Issue

# Sarcomeric Proteins in Health and Disease

### Message from the Guest Editor

The aim of the present Special Issue is to bring together reviews and original papers on the structure and function of specific components of the sarcomere as they relate to overall contractile function and its regulation in normal and diseased muscle tissue. Historically, the focus in molecular biophysical studies of muscle contraction has been on actin–myosin interaction.

This issue is intended to be an opportunity to explore other aspects of sarcomere structure and function. These could include topics such as: (1) the elastic properties of sarcomeric proteins and their role in regulation, (2) structural dynamics of the Z-lines and M-lines, (3) sarcomeric structural proteins and cell signaling pathways, and (4) regulation of turnover of sarcomeric proteins. This list is not intended to be exclusive. Any of these topics could include investigation and discussion of mutations and post-translational modification alter protein structure and either normal or pathological function.

---

### Guest Editor

Prof. Dr. Thomas C. Irving

Department of Biological Sciences, Illinois Institute of Technology,  
Chicago, IL, USA

---

### Deadline for manuscript submissions

closed (28 February 2021)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/31446](https://mdpi.com/si/31446)

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