



## Emerging Strategies for Regulating the Axonal Growth, Guidance and Neural Tissue Regeneration

Guest Editor:

**Dr. Srinivas Madduri**

Bioengineering and Regenerative  
Medicine, Department of  
Biomedical Engineering,  
University of Basel/University  
Hospital, Basel, Switzerland

Deadline for manuscript  
submissions:

**closed (31 March 2024)**

### Message from the Guest Editor

Dear Colleagues,

Injuries to the nervous system often result in debilitating functional impairment and reduced quality of life, which often results in major socioeconomic change. Currently, existing diagnostic and therapeutic options for addressing this issue are suboptimal. Thus, there is an urgent need for new and innovative strategies for effective management of differential pathologies resulting from traumatic and nontraumatic forms of neuronal injuries. Therefore, for this Special Issue, we are inviting the submission of research articles considering the following topics:

- Engineered biomaterials, bioengineered cells and tissues;
- Nanomedicine and targeted drug delivery;
- Multiomics covering the proteomic, genomic and transcriptomics of tissues with changing functions and anatomy;
- Bioelectronics as a potential therapeutic intervention;
- Cellular and molecular neurobiology;
- Regeneration of peripheral and central nervous system;





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI