



Mathematical, Computational and Numerical Modeling of Molecular Biomedicine

Guest Editor:

Dr. Mohammad Rahimi-Gorji

1. Laboratory of Experimental Surgery, Department of Human Structure and Repair, Ghent University, 9000 Ghent, Belgium
2. IBiTech-Biommeda, Department of Electronics and Information Systems, Ghent University, 9000 Ghent, Belgium

Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editor

The legislation on the use of laboratory animals has become more stringent over the past years and a lot of progress has been made in the field of alternative methods to animal testing, and many valuable assays have been developed. One of the alternative methods is computational and numerical simulation. This Special Issue aims to explore and highlight the latest pertinent and innovative studies related to mathematical, computational, and numerical methods of molecular biomedicine. Some related topics:

- Computational fluid dynamics (CFD) in biomedical applications;
- Computational and mathematical simulation in molecular science;
- Mathematical approaches in the biomolecular field;
- Drug delivery and molecular systems;
- Fluid dynamics, heat transfer, and molecular science;
- Thermal molecular science;
- Numerical methods in biomedicine;
- Nanomedicine;
- Biomaterials;
- Biomechanics;
- Analytical methods in medical applications;
- Multidisciplinary problems between engineering and medicine;
- Aerosol and particle technology in biomolecular and biomedical sciences.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic 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