

# Special Issue

## Innovative Molecular Strategies in Biomedicine

### Message from the Guest Editor

This Special Issue aims to highlight the rapid advances in molecular sciences and biotechnology that have opened new avenues for biomedical research and therapeutics. We emphasize the interdisciplinary nature of the current challenges in this field and the groundbreaking potential of innovative methods to tackle these complex problems. The topics of interest include, but are not limited to, the following: Bioprinting of 3D *in vitro* skeletal muscle models  
Nanoparticles functionalized with toxins  
An update on protein and peptide drug delivery strategies  
Peptides and peptide-based biomaterials  
Self-assembled peptide-based hydrogels The integration of bioinformatics tools and methods is critical to achieving the goals of this special issue. This Special Issue aims to not only present cutting-edge research, but also stimulate further interdisciplinary collaboration in the search for innovative solutions in biomedical research and therapy.

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### Guest Editor

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# International Journal of Molecular Sciences

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## About the Journal

### 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.

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### Editor-in-Chief

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