





an Open Access Journal by MDPI

Peptides and Their Synthetic Analogs in Medicine and Biotechnology

Guest Editor:

Dr. Volker Knecht

Institute of Physics, Universität Freiburg im Breisgau, Freiburg im Breisgau, Germany

Deadline for manuscript submissions:

closed (1 October 2022)

Message from the Guest Editor

Dear Colleagues,

Peptides and short proteins provide a promising new generation of biologically active tools with a wide range of novel applications in medicine and biotechnology. Structural modification of peptides leads to the class of peptidomimetics whose value is considerably enhanced compared to their native predecessors. Peptides are employed to fight microbes or cancer, as neuromodulators or hormones or as a basis of vaccines and drug delivery Self-assembling peptides may serve biomaterials in tissue engineering for creating blood vessels or as substrates for neurite outgrowth and synapse may be formation. Finally. peptides applied in bionanotechnology to create microchips, electronic devices, as well as nanosized rods or tubes.

For this Special Issue, we invite submissions of both topical reviews and original research articles focused on the synthesis as well as structural and functional studies of peptides and peptidomimetics to be applied in medicine or biotechnology.













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