

Special Issue

Synthesis and Functions of Peptides and Peptidomimetics

Message from the Guest Editor

In recent decades, there is a broad spectrum in the applications of peptides from therapies of illnesses, targeting moieties for drug delivery, and the development of hydrogels or other nanoparticles. Next to the advantages like high specificity and low immunogenicity as well as toxicity, there are some weaknesses of peptides, including a short half-life and fast degradation in human plasma, low oral bioavailability, and, in the case of many short peptides, high conformational flexibility, and therefore low binding affinity. Thus, the main efforts for the development of peptide-based drugs focus on suitable modifications with which to overcome these drawbacks. Substitution with non-native amino acids, cyclization, and using retro-inverso peptides till the development of peptidomimetics all may help to prepare potential drug candidates with not only high efficacy but also higher bioavailability and slower decomposition as well as clearance.

Now we start a new Special Issue "Synthesis and Functions of Peptides and Peptidomimetics" in *IJMS*. We eagerly await review or full papers on the topics mentioned above.

Guest Editor

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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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