

Special Issue

Bioactive Peptides: Synthesis, Functions, and Medicinal Chemistry Applications

Message from the Guest Editor

Peptides have emerged as promising therapeutic tools, with molecular weights and pharmacological properties that sit between traditional small molecule drugs and therapeutic proteins, such as monoclonal antibodies. Numerous peptides are clinically available for the treatment of various diseases, such as infections, cancer, osteoporosis, chronic pain, hormonal therapy, and skin aging. In recent years, we have seen substantial progress in the discovery and development of bioactive peptides, as testified by the increasing number of deposited patents. Advances that have been made include the following: genome mining, the development of new chemical methods for peptide cyclization, efficient synthesis of long peptides through peptide ligation, the creation of peptide libraries for high-throughput screening, and an enhancement of our understanding of peptide intracellular delivery and metabolic protection. We welcome the submissions of original research articles and reviews on these and related topics to this Special Issue.

Guest Editor

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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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