

Special Issue

Bioactive Peptides: Isolation, Identification and Application

Message from the Guest Editors

Bioactive peptides are emerging as next-generation biomolecules with groundbreaking potential in the fields of health, nutrition, cosmetics, and biotechnology. Once considered byproducts of protein degradation, they are now being actively designed thanks to discoveries made possible by artificial intelligence, peptide engineering, and eco-friendly extraction methods. New sources, including plants, marine organisms, insects, and sustainable byproducts, are expanding the structural and functional diversity of peptides. At the same time, innovative strategies such as chemical modification, cyclization, and peptidomimetics increase stability, bioavailability, and target specificity. This Special Issue will present cutting-edge research on the isolation, identification, characterization, bioactivity, and applications of bioactive peptides, with particular emphasis on innovation and sustainability. Interdisciplinary papers combining basic science with applied research are particularly welcome, as are studies exploring the potential of bioactive peptides in healthcare, functional foods, and biotechnology.

Guest Editors

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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