Special Issue

Peptides and Peptidomimetics: From Synthesis to Applications

Message from the Guest Editors

In recent years, significant attention has been devoted to peptides/peptidomimetics due to their modular nature, structural diversity, biocompatibility, relative chemical and physical stability, and synthetic accessibility. The chemical diversity of single amino acids as well as their ability to generate H-networks depending on their structure allows a variety of complex, different-shaped architectures to be obtained. In fact, linear and cyclic non-coded amino acids, even in short peptide sequences, can provide conformationally stable constrained 3D structural platforms. They are indeed valuable tools when inserted in peptide sequences. Of relevance, in biomedicine, peptidomimetics can be used to define the residues and secondary structures responsible for binding recognition and affinity, and can induce an increased stability to proteolysis. On the other hand, peptidomimetics can be used both as soft materials or hybrid nanomaterials in nano-size delivery systems for different molecules such as anticancer agents, oligonucleotides, antibodies, and proteins.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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