



Synthesis and Functions of Peptides and Peptidomimetics

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Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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