

## Special Issue

# Self-Assembly and Gelation of Short and Ultrashort Peptides

### Message from the Guest Editor

The special issue on peptide gelation will provide a compendium of different experimental and computational approaches aimed at understanding the rules which govern the self-assembly and gelation of short peptides. A mixture of review, perspective and original research articles will inform the reader about the design strategies, criteria for peptide self-assembly and gelation, the relationship between peptide chemistry, fibril length and gel strength explored by microscopic and rheological techniques. Some studies will focus on how solution conditions, solvent composition and concentration affect the kinetics of gel formation, the respective fibril network, the strength of the gel phase and its stability. Some papers will demonstrate how optical and vibrational spectroscopy can be used to obtain information about the structure of the fibrils that underlie the gel phases of short peptides. While most of the papers will focus on the structural and mechanism issue, possible biomedical applications of peptide gels will be described as well.

### Guest Editor

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### Deadline for manuscript submissions

closed (30 November 2023)



## International Journal of Molecular Sciences

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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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### Editor-in-Chief

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