



Peptide-Based Hydrogels for Pharmaceutical Applications

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Message from the Guest Editors

Dear Colleagues,

Peptide chemistry and self-assembling are a rapidly growing field related to the development of materials, including hydrogels. The interest in these specific peptide-based matrices is enhanced by the possible de novo design of peptide sequences and to their functional properties, with a noteworthy in vitro and in vivo biocompatibility. The soft matter nature, the specific porous structure, and large water content make hydrogels ideal candidates as carriers. The chemical variability associated with peptides allows the development of matrices to incorporate a variety of active pharmaceutical ingredients (APIs). Opportunity engineered hydrogels can provide a modified and sustained release of encapsulated API.

This Special Issue aims deal with applicative and structural aspects of peptide hydrogel materials, including the hierarchical organization analysis, the optimization of material properties, and their potential pharmaceutical applications, e.g., active pharmaceutical ingredient encapsulation and drug delivery. Full research articles and reviews covering these topics or similar ones are welcome.

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Message from the Editor-in-Chief

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