

Special Issue

Peptide-Based Hydrogels for Pharmaceutical Applications

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Giancarlo Morelli

1. Department of Pharmacy, University of Naples "Federico II", Via Domenico Montesano 49, 80131 Naples, Italy
2. Research Centre on Bioactive Peptides (CIRPeB), University of Naples "Federico II", 80134 Naples, Italy

Dr. Carlo Diaferia

1. Department of Pharmacy, Via Domenico Montesano 49, 80131 Naples, Italy
2. Research Centre on Bioactive Peptides (CIRPeB), University of Naples "Federico II", 80134 Naples, Italy

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
Rutgers University, Piscataway, NJ 08854, USA

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