

Special Issue

Peptide-Based Carriers for Drug Delivery

Message from the Guest Editor

This Special Issue will focus on the latest progress of novel peptide-based hydrogels/nanogels as carriers for delivering therapeutic drugs. In recent years, a variety of polymer-based hydrogels/nanogels have been studied extensively for biomedical applications, including drug delivery and tissue engineering. These hydrogels/nanogels can stimulate structural and/or morphological responses in response to the changes in environmental conditions. Synthetic polymer-based hydrogels/nanogels have exhibited versatility in tailoring macromolecular chemistry to tune the material properties and functionality as compared to their natural counterparts. Polypeptide-based hydrogels/nanogels are particularly of interest due to their biocompatible/biodegradable building blocks and essential structure–function relationship, endowing them with biofunctionality and self-assembly versatility. We anticipate contributions from scientists working on the development of polypeptide-based hydrogels/nanogels for drug delivery, which could be investigated in several diseases using in vitro assays and/or in vivo animal models.

Guest Editor

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