

Special Issue

Peptide-Based Drug Delivery Systems

Message from the Guest Editor

Peptides are natural components of our biological system. They are building blocks of proteins and are involved in several biological processes to regulate the functioning of our complex biological system. Peptides are very specific to their targets. Thus, they are used in targeting the drugs to specific cells and tissues. This strategy could reduce the various side effects of the drug. Various drugs and other pharmaceutical candidates fail to reach their target due to limitations to their cellular permeability and/or oral bioavailability. Peptides are found as an alternative candidate compared to other drug delivery systems due to their safety, easy functionalization with various pharmaceutical candidates, robustness of synthetic methodology, availability to use natural or unnatural amino acids, targeting with biomarker ligands, and use of peptidomimetics to improve pharmacokinetics property. Peptides also have the potential to be used to deliver biomaterials. In connection with the above, this Special Issue aims to cover new approaches, methodologies, and perspectives towards recent development in the use of peptide-based drug delivery.

Guest Editor

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