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Cell-Penetrating Peptides (CPPs)

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

Cell-penetrating peptides (CPPs) containing 5–30 amino acid residues efficiently pass across cell membranes and are commonly used to deliver a wide range of cargoes intracellularly. CPPs consist of amino acids with a cationic and amphipathic nature. There are several examples of well-established CPPs, such as polyarginine, penetratin, TAT, SynB1, SynB3, PTD-4, MAP, and SBP. These CPPs can deliver drugs or macromolecules to the cytoplasm or the nucleus of cells. The growing interest in the area of peptide-drug conjugates utilizing CPPs to deliver cell impermeable molecules reflects their applications. These CPPs are also utilized to understand properties, membrane dynamics, transporters' mechanisms of internalization of micro/macromolecules.

This Special Issue aims to provide an update on the recent developments in the areas of design, optimization, and employment of CPPS for specific applications, such as drug delivery systems and diagnostic tools, and to explore the mechanisms of CPPs cellular internalization and their combination with nanoparticles.

Dr. Rakesh K. Tiwari Guest Editor













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Editor-in-Chief

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Message from the Editor-in-Chief

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