Special Issue

Peptide☐Mediated Targeted Drug Delivery

Message from the Guest Editor

Peptides can improve the specificity and efficiency of their delivery into a given pathological tissue or cell. This property is largely attributed to selective binding to their receptor proteins, which may be biomarkers for the tissue or cells of interest. Peptide–receptor ligation can invoke downstream signaling cascades and/or trigger cellular transport processes for cargo intake and even exchange between cells. Phage display has been useful in discovering such peptide tools in a high-throughput manner, which may also lead to the identification of novel biomarkers for target protein/cell/tissue. Understanding how peptides function as therapeutics themselves or as delivery vehicles, and exploring new screening strategies, will shed light on cell biology and physiology, in addition to providing better ways to develop peptide-based delivery and therapeutic technologies. This Special Issue will focus on peptide and biomarker discovery, cellular responses to peptide–receptor interactions, preclinical and clinical applications of peptides in navigating molecular and nanoscale diagnostic and therapeutic payloads.

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