

Special Issue

Precision Delivery of Drugs and Imaging Agents with Peptides

Message from the Guest Editors

Systemic targeting of vascular ZIP codes with homing peptides is an increasingly recognized strategy that can be used to improve the biodistribution profile and to increase potency of drugs. Another class of transport peptides, cell-penetrating peptides (CPP), are widely used to trigger robust intracellular uptake of molecular and nanoscale payloads. Peptides have several advantages over other classes of affinity ligands, including a small size (and thus improved tissue penetration, straightforward synthesis, and low cost), low immunogenicity, and biocompatibility. This Special Issue will provide insights into peptide-based precision targeting from top experts from around the world. Original research and reviews in the issue summarize preclinical and clinical applications of peptide-based targeting for delivery of molecular and nanoscale diagnostic and therapeutic payloads in the context of cancer, cardiovascular and pulmonary diseases, and regenerative medicine.

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