

Special Issue

ADMET of Therapeutic Peptides

Message from the Guest Editor

Therapeutic peptides development has come a long way since the discovery of insulin, and a vast number of peptides for treating many diseases have arrived at the clinic over the last 40 years. From complete natural amino acid sequences to non-natural amino acids, conjugations to lipids and proteins, pegylation, the creation of peptoids and macrocycles, polymerization to protein-like particles, and so forth, the ADME fate of these peptides has dramatically changed. More than 170 peptides are now in active clinical development and many more in preclinical studies. Despite this apparent revolution, there is no clear DMPK guidance for characterizing these peptides. Extracellular targets and elimination by proteolysis and renal filtration are not standard features of the new therapeutic peptides; hence a customized set of assays is needed to guide their development. This special issue aims to provide examples of how these novel entities' absorption, distribution, metabolism, and excretion are studied from early discovery to human testing.

Guest Editor

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