

Special Issue

New Approaches to Enhance Drug Solubility and Bioavailability

Message from the Guest Editors

Solubility of drugs is a crucial determinant especially for good oral bioavailability. Thus, numerous solubilisation techniques have been developed. However, these techniques are not regarded as being universal and thus, frequently limited to specific formulations. For example, micelles based on surfactants and amphiphilic polymers are able to solubilise poorly soluble drugs but they might not be intravenously injected due largely to concern of precipitation of the drug as a result of dilution effect. In addition, orally administered micelles suffer from extensive interaction with gastrointestinal environments such as pH, digestive enzymes and bile salts. For this reason, new approaches have been employed including combination of current solubilisation techniques and use newly developed materials in solubilizing poorly soluble drugs to enhance bioavailability. This special issue is intended to introduce and highlight technological advances in solubilisation made for enhancing oral bioavailability. We welcome original and review articles concerning novel solubilisation techniques for better bioavailability.

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Deadline for manuscript submissions

closed (28 September 2018)



Pharmaceutics

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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



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