

Special Issue

Bioavailability Enhancement of Poorly Water-Soluble Drugs: Biopharmaceutics and Technology

Message from the Guest Editor

In the last decade, emerging trends in combinatorial chemistry and drug design have rendered newly developed drug molecules with higher lipophilicity, larger molecular weight, and poor water solubility. As a result, the majority of new drug development results in failure due to the poor water solubility of the drug molecules. The optimization of such poorly water-soluble molecules for enhanced solubility, dissolution, and ultimately enhanced bioavailability is the most important prerequisite to develop drug products. To overcome the poor water solubility, various approaches to enhance the dissolution rate include solid dispersion, supercritical fluid technology, prodrugs, co-crystal formation, cyclodextrin complexes, lipid-based formulations, etc. Furthermore, the convergence of diverse technologies is also recommended for the modulation of the release rate and enhanced bioavailability for better patient adherence. This Special Issue is aimed at highlighting the latest progress and research of pharmaceutical and biopharmaceutical technologies for the enhanced bioavailability of poorly water soluble drugs.

Guest Editor

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