

Special Issue

Dissolution Enhancement of Poorly Soluble Drugs

Message from the Guest Editors

An increasing number of small molecules in the pipeline of pharmaceutical companies exhibit poor aqueous solubility, low dissolution rate, thus, poor bioavailability, which presents a major challenge in developing such molecules into medicines. To enhance the solubility and dissolution rate, several approaches have been developed, such as nano/micro-particle based formulations, amorphous solid dispersions, lipid-based drug delivery systems, pro-drugs, and co-crystals. Within the context of "Poorly Soluble Drugs," this Special Issue aims to disseminate knowledge and information about novel materials, formulations, processes, characterization-testing methods, and provide a fundamental understanding of existing formulations-processes and insight into the mechanisms by which solubility/dissolution rate of the drugs are enhanced. Papers providing insight into the formation, structure, physico-chemical properties, and physical stability of the dosages with poorly water-soluble drugs as well as those exploring glass-forming ability of drugs, recrystallization tendency, and nano/microparticle formation are especially welcome.

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