

Special Issue

Enhancing Drug Delivery with Bioactive Substances and Solid Dispersion

Message from the Guest Editors

Solid dispersion technology, the science of dispersing bioactive ingredients in an inert matrix in the solid state, is a strategy for achieving an increased dissolution rate, sustained release, improved bioavailability, and modified solid-state properties of drugs with poor or high water solubility. The aim and objectives are to discuss the fundamentals and methods of solid dispersions from a practical point of view. The first scientific publications on solid dispersion technologies were published about 60 years ago; since then, the physical stability of solid dispersions has remained a major challenge. Studies that improve the stability of solid dispersions with in vitro and in vivo assays are welcome. These studies will undoubtedly contribute to advancing our understanding and application of solid dispersion technology. In this Special Issue, original research articles and reviews are welcome to be submitted. Research areas may include, but are not limited to, the following: amorphous solid dispersion, ternary solid dispersion, solid dispersion surfactant-free, solid dispersion loaded in structured systems, and solid dispersion in pharmaceutical dosage forms.

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