

Special Issue

Emerging Strategies to Enhance Solubility of Poorly Soluble Drugs: From Nanosystems to Molecular Innovations

Message from the Guest Editor

The poor aqueous solubility of many APIs remains a major challenge in drug development, often restricting bioavailability and therapeutic effectiveness. This Special Issue will cover various innovative strategies developed over the past decade to improve the solubility and dissolution rate of poorly soluble drugs. New approaches include nanonization techniques such as those incorporating nanocrystals and solid lipid nanoparticles, the employment of amorphous solid dispersions, cyclodextrin complexation, co-crystallization, and the use of ionic liquids and deep eutectic solvents. Additionally, molecular-level innovations, including those in prodrug design and salt formation, will be discussed, alongside advances in formulation technologies such as 3D printing and hot-melt extrusion.

Guest Editor

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