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Polymorphs, Salts, Cocrystals and Cationic Lipid Nanoparticle Complexes in Drug Delivery

Guest Editor:

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Message from the Guest Editor

Polymorphs, salts, cocrystals, and solid lipid nanoparticles are key techniques for delivering ionic pharmaceuticals through oral and injectable forms. Co-processing drugs with one or more additional agents is also emerging as an effective strategy for drug delivery in these forms. Specifically, polymorphs created by melt crystallization, like Form III ritonavir, have shown potential in increasing blood levels and drug solubility. Similarly, forming salts in conventional crystals or with cationic lipids enhances drug delivery. Cocrystals use noncovalent forces and cofomers to modify drug delivery, while co-processed systems, as exemplified by Zelboraf's new formulation, improve solubility and blood levels. This special issue will examine these strategies, highlighting how solid state chemistry can advance drug delivery.



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Special Issue



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