Special Issue

Recent Advances in Amorphous Solid Dispersions: Preformulation, Formulation Strategies, Technological Advancements and Characterization

Message from the Guest Editors

The majority of new chemical entities in development are crystalline in nature, and thus suffer from poor solubility and bioavailability. Over the last two decades, amorphous solid dispersions (ASDs) have been utilized as a promising technology to improve the solubility and bioavailability of poorly soluble drugs, thus attending to unmet therapeutic needs with poorly soluble drugs. Recent advances pertinent to ASDs elucidate novel manufacturing technologies, chemical modifications of polymers, improvised manufacturing, and characterization techniques in pharmaceutical applications. Suitable topics for submission include, but are not limited to, the following:

- Formulating high-drug-load ASDs;
- Novel techniques in manufacturing ASDs;
- Characterization of ASDs:
- Preformulation and material sparing techniques for ASDs:
- Role of ASDs in navigating molecules from bench to market;
- Risk assessment and QBD-based formulation development of ASDs;
- Overcoming the manufacturing and scale-up challenges of ASDs;
- Downstream processing of ASDs;
- Application of lipids, surfactants, and mesoporous silica in conjunction with ASDs

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We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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