Special Issue

Pharmaceutical Freeze Drying and Spray Drying

Message from the Guest Editor

With the increasing importance of biopharmaceuticals and their frequent inherent instability in the presence of water, pharmaceutical scientists have to consider the preparation of a dry formulation in order for the product to be safe and stable. For the gentle removal of solvent, freeze-drying and spray-drying are two commonly applied unit operations. Although both processes are long-established in pharmaceutical and other industries, actual product development is still often based on tradition or trial-and-error approaches, rather than on a conscious and rational design. In the light of quality-by-design, a more thorough understanding of the interplay between the active ingredient and the critical formulation and process parameters is necessary. Understanding a system all the way—from its molecular interactions to the intermediate and bulk properties and the final dosage form—will ensure the highest quality. This Special Issue serves to highlight the most recent developments and findings in the understanding of both freeze-drying and spray-drying.

Guest Editor

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