



Recent Advances in Amorphous Drug

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Message from the Guest Editors

The research on amorphous forms of drugs has been intensified in recent years. One of the main reasons for the increasing interest is the favorable changes that these highly energetic and disordered forms can induce in substance properties used as ingredients in either food, cosmetics, nutraceuticals or pharmaceuticals. The dissolution rate, a critical subject for poorly water soluble molecules, can be, for instance, potentially improved. Additionally, developments in this form of matter will contribute to a better understanding of the glass transition origin which remains a challenge in the aims of condensed matter physics.

An in-depth physicochemical characterization is required either if the amorphous state is taken as the starting form for formulation constituents, or if it is a consequence of, for instance, incorporation in a nanostructured carrier. Then, a multidisciplinary approach will help to define the appropriate conditions to obtain and stabilize drugs in this thermodynamically unstable form, allowing for establishing the optimal conditions to be safely handled during preparation, storage and administration.





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Message from the Editor-in-Chief

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