

## Special Issue

# Pharmaceutical Solid Forms: From Crystal Structure to Formulation

### Message from the Guest Editor

Before it becomes beneficial for the patient, a drug must go through several phases of development. Its final formulation, where the active ingredient is mixed with the other components (excipients), must take into account various factors, such as its solid state, pH, solubility, etc. Indeed, in the solid state, the active ingredient can exist in different forms: anhydrous or solvated crystalline, non-crystalline (amorphous), or even in the form of salts or, more rarely, in the form of co-crystals. It should be remembered that more than 80% of drugs exist in solid form and that almost all of the active ingredients are solid in the raw material state. The solid form may affect the chemical and physical properties of the drug, mostly physical and/or chemical stability (including pharmaceutical operations), solubility, bioavailability, etc. Consequently, the identification and control of the API solid form in the final drug must be ensured throughout the development, including final packaging. Indeed, the active substance may interact physically or chemically with the excipients, or with the container, which may modify its activity.

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### Guest Editor

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## Pharmaceutics

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