



Spray Drying and Encapsulation of Pharmaceuticals and Phytopharmaceuticals

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Message from the Guest Editors

The spray drying and encapsulation of pharmaceuticals and phytopharmaceuticals are widely used in the pharmaceutical sector for the powder production and manufacture of innovative delivery systems. Important applications of spray drying in pharmaceutical and herbal technology include the production of powders with high flowability and with direct compression capability; the development of innovative drug delivery systems, nano- and microcapsules loaded with active pharmaceutical and phytopharmaceutical ingredients (e.g., essential oils, phytochemicals and plant extracts); the production of inhalable powders for pulmonary drug delivery; the manufacture of redispersible powders, proliposomes, and molecular inclusion complexes; enhancement of the bioavailability and solubility of poorly soluble pharmaceuticals and phytochemicals; and the drying of thermosensitive pharmaceuticals and biopharmaceuticals.

In this Special Issue, research areas: production of direct compression powders, drying of thermosensitive products, encapsulation of drugs and herbal products, production of inhalable powders, improvement of bioavailability and solubility, and enhancement of product shelf-life.





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