



Development and Evaluation of Inhalable Dry Powder Formulations

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Message from the Guest Editors

Dear Colleagues,

Respiratory drug delivery is an important route for the administration of treatment and prevention of diseases of the respiratory tract (nasal and pulmonary regions), and for delivering drugs non-invasively to the central nervous system (CNS). Pulmonary drug delivery has recently gained a significant importance in the therapeutic field due to the various advantages, such as pain-free administration, targeted drug delivery with minimum systemic exposure, rapid onset of action, reduced enzymatic degradation, high drug-concentrations in the lungs, and avoidance of hepatic first-pass metabolism compared to the other conventional routes of administration. Formulations including biologicals have shown an increased stability when they are in solid-state rather than liquid formulations, making dry powder inhalers (DPIs) the more preferred formulation for pulmonary drug delivery. This Special Issue focuses on the design and development of innovative dry powder formulations as inhalation aerosols by the lung and nasal routes of administration.

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