



Pharmaceutical Manufacturing Process of Inhaled Drugs

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

An inhalation preparation refers to a special dosage form that is administered with a special device, such that a drug acts on the lungs and exerts local or systemic effects through the deep part of the respiratory tract, cavities, mucous membranes, etc. It is often used in the treatment of respiratory diseases such as asthma and chronic obstructive pulmonary disease. The route of inhalation administration has the advantages of being non-invasive, a quick onset, less local metabolic enzymes, and localized drug delivery. According to different devices, it can be divided into powder inhalations (DPIs), metered inhalation aerosols (MDIs), and liquid preparations for inhalation. Additionally, there are inhalation sprays, among which DPIs, MDIs, and liquid preparations for inhalation are widely used.

The preparation methods of respirable particles include top-down techniques and bottom-up techniques. Traditional drug grinding methods include ball milling, colloid milling, hammer milling, and jet milling. In this Special Issue, we will focus on novel laboratory as well as industrial methods for formulating generic drugs and novel therapeutic cargos.





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Message from the Editor-in-Chief

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