Special Issue

Advanced Characterization of Inhalation Medicinal Products

Message from the Guest Editors

Pulmonary drug delivery has been demonstrated not only to be a valuable approach to treat local diseases but has shown great potential for drug delivery systemically. This has presented the possibility to develop new products for the delivery of small molecules for the treatment of clinically relevant diseases such as diabetes. However, the look for new therapeutic approaches has led to lead compounds that in comparison to those in the clinical use present some challenges such as lower aqueous solubility, poor permeability and high dosages. On the other side, more complex formulations are proposed, in view of providing a controlled release of drugs after lung deposition. In this scenario, the classic pharmacopoeial tests do not appear to be appropriate to investigate and characterize such new products.

This Special Issue aims to showcase a series of advanced approaches for the characterization of innovative products for pulmonary delivery, with special emphasis on aerosol performance, physico-chemical characterisation, dissolution studies, particle engineering, etc.

Guest Editors

Prof. Dr. Fabio Sonvico

Interdept Ctr Biopharmanet TEC, Univ Parma, Parco Area delle Scienze 27-A, I-43124 Parma, Italy

Prof. Dr. Francesca Buttini

Food and Drug Department, University of Parma, 43124 Parma, Italy

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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