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Advances in Pulmonary Drug Delivery

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Message from the Guest Editors

Dear Colleagues,

Drug delivery to the lungs by oral inhalation represents an attractive non-invasive administration route for therapeutics. In addition to locally acting drugs, molecules that are intended to produce a systemic effect can be delivered via the pulmonary route. Pulmonary delivery requires the patient to inhale an aerosol of the therapeutics agent. For the successful delivery via oral inhalation, formulation into an appropriate inhalable dosage form with a sufficient stability is critical. It is also essential that the formulation is paired with a device, which generates an aerosol of the appropriate particle/droplet size to ensure deposition into the desired regions of the respiratory tract.

This Special Issue attempts to highlight current research activities in the areas of inhaler device development; formulation development approaches for inhaled drugs; in vitro and in silico models of pulmonary drug deposition and drug disposition; and advanced delivery options for complex drugs, such as vaccines, antibiotics, nucleic acids, or peptides, to or via the lungs.

Prof. Dr. Carsten Ehrhardt
Guest Editor

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Message from the Editor-in-Chief

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