

Special Issue

Fate of Drugs and Delivery Systems in the Lungs

Message from the Guest Editor

Delivering drugs directly to the lungs remains a major therapeutic intervention in the management of respiratory diseases. Recently, drug inhalation has more been explored as a non-invasive route to the systemic circulation, particularly for drugs with a poor oral bioavailability.

Recent years have seen the development of advanced delivery systems to enable the administration of biotherapeutics to the respiratory tract, target specific cells of the pulmonary tissue, or prolong drug retention in the lungs. The fate of drugs and drug formulations once deposited in the lungs has, in comparison, received little attention. This can partly be explained by the anatomical complexity of the lungs, and, consequently, the need for simplified tools to investigate drug disposition post-inhalation.

This Special Issue will highlight current research exploring the events that follow the deposition of drugs and delivery systems at the surface of the lungs, including, but not limited to, particle dissolution, interactions with cellular and non-cellular pulmonary barriers, epithelial transport, intracellular trafficking, and the development of in vitro systems to study those events.

Guest Editor

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