

Special Issue

Inhaled Treatment of Respiratory Infections

Message from the Guest Editors

Respiratory infections are conventionally treated with oral or intravenous antimicrobials (antibiotics, antifungals, antivirals). However, these routes of administration are not ideal because the required drugs are systemically delivered rather than being targeted to the respiratory tract. Higher doses may also be needed to achieve sufficiently high drug concentrations in the lungs, which may consequently cause more adverse effects. On the other hand, the drugs can be delivered efficiently into the airways as inhaled aerosols. Lower doses can then be used to attain relatively high local concentrations. There are specific challenges to the development of inhaled formulations, such as optimising their physicochemical stability and aerosol performance. In addition, antimicrobial resistance is an urgent global public health issue. Novel strategies are required to overcome these problems. This Special Issue will focus on recent advances in treating respiratory infections with inhaled formulations.

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