

## Special Issue

# Drug Delivery to the Lungs: Challenges and Opportunities

### Message from the Guest Editor

Many challenges exist in delivering medications to the lungs. These include the complex lung network structure, the low delivery efficiency of current inhalation devices, large uncertainties in dosimetry, and the sophisticated pharmacokinetics of deposited drugs. In this Special Issue, we cordially invite submissions that tackle any aspects of these challenges, including but not limited to:

- Advances in computational fluid dynamics and other dosimetry models;
- Anatomical and physiological data of mammalian airways;
- Deposition and clearance of soluble aerosols;
- Doses to target tissues, including small airways and alveoli;
- In vitro testing of lung dosimetry;
- In vitro-in vivo correlation (IVIVC), animal models;
- Medical devices for pulmonary drug delivery;
- Mucosal clearance, alveolar clearance, long-term retention;
- Nanomedicines and vaccines;
- Pharmacokinetics of deposited medications;
- Viral and other bioaerosols.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2022)



## Pharmaceuticals

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### Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us. We hope to handle your contribution to *Pharmaceuticals* soon.

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### Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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