Special Issue

Dry Powders for Inhalation: Formulation Design and Quality Assessment

Message from the Guest Editors

Pulmonary drug delivery is an emerging field of research, due to the potential for both local and systemic drug action, as well as targeted and/or modified drug release. Dry powders for inhalation (DPIs) are currently in the spotlight of inhalation formulation design, due to the great potential for engineering of their aerodynamic properties, improved stability and convenience for administration. DPI design and preparation are challenging, from the perspective of excipient selection, manufacturing process optimization, packaging, and selection of the appropriate inhaler. A variety of in vitro and in silico characterization methods for the formulation development and quality control phase are available that can facilitate selection of the optimal formulations. Furthermore, recent efforts in the design of in silico physiologically based modeling tools have enabled the assessment of drug–formulation–physiology interplay, fostering the development of DPIs with the desired bioperformance. This Special Issue aims to present state-of-the-art and future perspectives of research in the field of dry powder formulation for inhalation.

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Deadline for manuscript submissions

closed (20 January 2022)

Pharmaceutics

an Open Access Journal by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed

mdpi.com/journal/
pharmaceutics

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