

Special Issue

Advances in Microfluidics for Pharmaceutical Applications

Message from the Guest Editors

Access to essential medicine is a challenge in both developed and developing countries. The current global pandemic (COVID-19) has put a spotlight on, among others, the need to develop advanced technologies to reduce both the cost and the time for new drug development. Microfluidic technologies, although they are still limited by their production scalability and cost, are expected to play an important part in the future manufacturing of nanomedicine and administration of therapeutic products and diagnostics. Microfluidics meet the demand of high-quality and meticulously regulated medical products. Currently, researchers are focused on the development of cost-effective, high-impact technologies that will fill the missing link between excellent product development and efficient commercialization of novel therapeutics. This Special Issue aims to introduce the most representative and promising approaches of microfluidic technology on the areas of micro/nanofabrication, novel drug development, cell and drug encapsulation, drug screening, 3D disease models, and organ-on-chips. We invite colleagues to submit a contribution either in the form of original research article or review.

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Deadline for manuscript submissions

closed (30 November 2021)



Pharmaceutics

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Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/70547

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