Special Issue

Microfluidics-Driven Formulations: Exploring Liposomes and Emulsions for Drug Delivery

Message from the Guest Editors

This Special Issue focuses on the transformative potential of microfluidics in drug delivery systems, emphasizing the development of liposomes and emulsions as versatile platforms. Microfluidics offers control over designing innovative drug delivery systems, enabling precise size and compositional control. By integrating advanced materials and scalable fabrication techniques, microfluidics is paving the way for personalized medicine and next-generation targeted therapies. This Special Issue seeks contributions on microfluidic technologies, from design to production, while tackling challenges in developing robust formulations. Research on application-specific design of liposomes and emulsion-based micro- and nano-carriers, presenting innovations in drug delivery, is welcome. Submissions highlighting engineering advancements in simulation-driven optimization and device designs for scalable, high-throughput production are also encouraged. Join us in showcasing the latest breakthroughs at the intersection of microfluidics, material science, and pharmaceutical innovations, paving the way for next-generation drug delivery solutions.

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Deadline for manuscript submissions

31 December 2025

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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