

Special Issue

Microfluidics as a Tool for Drug Delivery

Message from the Guest Editors

Microfluidics is a technology that allows precise control and manipulation of very small fluid flows, which translates to small amounts of reagents used more simply, and faster. The technologies are key in the development of novel applications in different fields, including drug discovery, drug delivery, in vitro diagnostics, chemical analysis and high-throughput screening. In the field of drug delivery, for example, micro and nanoparticle (e.g., polymeric, lipid) drug delivery systems provide superior control over the physicochemical characteristics of the final product. This Special Issue will address the new developments in the area of Microfluidics, including the development of efficient drug carrier particles, as rapid techniques for direct drug screening (e.g., plasma drug level monitoring), for dilution or mixing of pharmaceutical chemical reagents, and the formulation of microfluidic systems with self-contained reservoirs that provide continuous drug release over an extended period. Original research papers and review articles are welcomed.

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