

Special Issue

Nano and Microdevices for Targeted Drug Delivery

Message from the Guest Editors

For many decades, drug delivery vehicles have consisted of particles, for example, prepared from lipids, polymers or a combination of the two. Often, these systems are sufficient to deliver drugs to their target, but for some drugs, more advanced delivery vehicles are needed to obtain sufficient absorption and bioavailability. Within the last 10 years, top-down methods for creating nano- and microdevices have been suggested to be promising approaches for delivering drugs. The devices appear to be able to provide a more targeted delivery compared to, for example, particulates. Devices have been used for delivering drugs, e.g., via the oral, buccal and pulmonary route of administration, but also via injections. This Special Issue aims to provide an update on current and recent progress within nano- and microdevices for the delivery of drugs, vaccines and bioactives. Papers focusing on the design of the devices, fabrication, their characterization, drug encapsulation, drug release, and in vitro and in vivo studies are all of interest. Other relevant topics including microfabrication techniques and 3D printing devices for targeting drug delivery are also welcome.

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