

Special Issue

Droplet Microfluidics: Fundamentals and Its Advanced Applications

Message from the Guest Editor

Droplet-based microfluidics has been utilized in many innovative approaches in the biology, biomedical, and microbiology research fields due to its unique advantages over the decades. This system possesses excellent biocompatibility with encapsulated cells in microdroplets and many biological reagents. One application is that millions of functional screenings of individual cells in a spatially segregated microenvironment are assayed with one mL of emulsion by being used with fluorescent protein expression. The isolation of specific target cells among the population can be achieved by utilizing high-throughput fluorescent active droplets sorting or standard fluorescence-activated cell sorters. Accordingly, this Special Issue seeks to showcase research papers and review articles that focus on the fundamentals of microdroplet formation as well as novel microdroplets applications.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2023)



Micromachines

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