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Microfluidics has great potential to develop miniaturized systems for modern biology and chemistry by providing the ability to effectively control and measure small amounts of samples due to a need for high-throughput systems.

Various On-Chip Sensors with Microfluidics for Biological ...

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Exploring these subtleties without losing the speed and accuracy provided by traditional protocols is becoming a perfect application for microfluidics, especially encapsulation in droplets. Droplet-based microfluidics can be defined as micrometre-sized droplets emulsions, which are created in a microfluidic device.

Droplets encapsulation for biological applications: a ...

Microfluidic (MF) devices are being used for everything from accelerating molecular biology reactions to platforms for cell growth and analysis. The beauty lies in the precise control of quantities and rate of flow of samples and reagents that enables the separation and detection of analytes with high accuracy and sensitivity.

Biological Applications of Microfluidics System | SpringerLink

One of the most promising applications of microfluidics in biomedical engineering is in point-of-care diagnosis. In the important sample preparation stage, targeted biological cells need to be separated from other substances in the sample.

Microfluidics and Biomedical Applications

Abstract. In the past two decades, microfluidics-based particle production is widely applied for multiple biological usages. Compared to conventional bulk methods, microfluidic-assisted particle production shows significant advantages, such as narrower particle size distribution, higher reproducibility, improved encapsulation efficiency, and enhanced scaling-up potency.

Microfluidics for Production of Particles: Mechanism ...

Microfluidic systems are very valuable tools for fundamental studies of complex biological systems since they provide precise control of small volumes of fluids over very short distances.

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