

Microfluidic Technologies For Miniaturized Analysis Systems

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Microfluidic Technologies For Miniaturized Analysis

Microfluidic Technologies for Miniaturized Analysis Systems is an important reference for professionals and academic researchers seeking information about the latest techniques, including: Control and pumping of small amounts of liquid Particle and cell manipulation Micromixing Separation technology ...

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Microfluidic Technologies for Miniaturized Analysis ...

Microfluidic technologies provide an opportunity to manipulate fluid at a micrometer scale , making detection at single molecule level possible.

Microfluidic devices are suitable for handling micro samples [21 , 22], which fit the properties of cfDNA and could effectively reduce required sample volume [23].

Microfluidic Technologies for cfDNA Isolation and Analysis

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focused laser beam can be used as optical tweezers to confine, position, and transport ...

Microfluidic Technologies for Miniaturized Analysis ...

Microfluidic Technologies for Miniaturized Analysis Systems by Steffen Hardt and Friedhelm Schoenfeld: Book Review, Analytical and Bioanalytical Chemistry.

Microfluidic Technologies for Miniaturized Analysis ...

Microfluidic Technologies for Miniaturized Analysis Systems provides a comprehensive overview of the fluidic aspects of Lab-on-a-Chip technology.

Microfluidic Technologies for Miniaturized Analysis ...

It focuses on microfluidic technologies that have emerged in the past decade. Coverage presents a comprehensive listing of the most promising microfluidic technologies in the Lab-on-a-Chip field. It

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also details technologies that can be viewed as toolboxes needed to set up complex Lab-on-a-Chip systems.

Microfluidic technologies for miniaturized analysis ...

Additionally, microfluidic technologies, such as the miniaturized cell sorters, have been developed to enhance the performance of existing technologies. Microfluidic PCR technologies are great examples of improved analytical assays using microtechnology.

Microfluidic Technology - an overview | ScienceDirect Topics

Miniaturized technologies for high-throughput drug screening enzymatic assays and diagnostics - A review 1. Introduction. Drug discovery is a time consuming and expensive process essentially comprising basic research... 2. Enzymatic assays on high-throughput screening platforms. The development of ...

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Miniaturized technologies for high-throughput drug ...

Microfluidic technology has been adapted to address both isolation and analysis. The currently used microfluidics-based exosome separation methods are classified into three categories: size-based, immune-affinity-based, and dynamic categories.

Microfluidic Technology for Clinical Applications of Exosomes

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Microfluidic Technologies for Miniaturized Analysis ...

Microfluidics is a comparatively new branch of science and technology in which considerable progress has been made in the past 10–15 years. The reason why we consider it a new discipline is not only the fact that only recently systems have emerged allowing to carry out complex microfluidic protocols, but also due to the different

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physical regime these systems are based on compared to ...

Microfluidics: Fundamentals and Engineering Concepts ...

Advances in microfluidics technology are revolutionizing molecular biology procedures for enzymatic analysis (e.g., glucose and lactate assays), DNA analysis (e.g., polymerase chain reaction and high-throughput sequencing), proteomics, and in chemical synthesis.

Microfluidics - Wikipedia

Microfluidics is both the science which studies the behaviour of fluids through micro-channels, and the technology of manufacturing microminiaturized devices containing chambers and tunnels through which fluids flow or are confined. Microfluidics deal with very small volumes of fluids, down to femtoliters (fL) which is a quadrillionth of a liter. Fluids behave very differently on the ...

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Microfluidics: A general overview of microfluidics - Elveflow

Microfluidic technology has its origin in the late 1980s, when researchers at Ciba-Geigy, a chemical company in Basel (now part of Novartis) miniaturized a capillary electrophoresis device and exploited favorable scaling laws when manipulating very small samples of liquid in very small channels: temperature transitions become instantaneous, diffusion distances become small, reaction times are very fast, only small amounts of precious compounds are needed, reactions can be parallelized on a ...

Understanding Microfluidics: the Technology Behind Body-on ...

EID - Virtual Vials About the project Virtual Vials is an EID project between Technion and IBM-Zurich, aimed at developing novel tools for biomolecular analysis and training the next generation of scientists and engineers who likely will translate the technologies

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and discoveries into practical use for the benefit of society and the EU hi ...

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