



Microfluidics for Biomarker Discovery Innovations and Applications

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Microfluidics for Biomarker Discovery Innovations and Applications

Point-of-care testing

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Microfluidic PCR

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Rapid results

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Integration with detection

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Applications in disease diagnosis and monitoring

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Cancer biomarkers

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Circulating tumor cells (CTCs)

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Exosomes

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Infectious diseases: Microfluidics for Biomarker Discovery Innovations and Applications

Pathogen detection

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Serodiagnostics

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Neurological disorders

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Cerebrospinal fluid (CSF) analysis

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Neuroinflammation markers

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Cardiovascular disease

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Lipid profiling

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Biomarkers of myocardial injury

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Advantages of microfluidic systems

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Increased sensitivity

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Reduced sample volume

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High throughput

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Integration and automation: Microfluidics for Biomarker Discovery Innovations and Applications

Discussion

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Standardization and reproducibility

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Scalability

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Data management

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