



Point-of-Care Diagnostic Devices for Single-Cell Analysis and Biomarker Detection

Guest Editors:

Dr. Lawrence Kulinsky

Department of Mechanical and
Aerospace Engineering,
University of California, Irvine,
4200 Engineering Gateway, Irvine,
CA 92697-3975, USA

Dr. Snehan Peshin

Department of Bioengineering,
University of Washington, Seattle,
WA 98195, USA

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Message from the Guest Editors

Dear Colleagues,

The Special Issue "Point-of-Care Diagnostic Devices for Single-Cell Analysis and Biomarker Detection" presents a comprehensive collection of cutting-edge research at the intersection of biomedical engineering, nanotechnology, and clinical diagnostics. This issue highlights the latest advancements in the development and application of innovative point-of-care (POC) devices tailored for single-cell analysis and rapid biomarker detection. The topic includes but is not limited to the following:

Microfluidic Platforms: Highlighting advancements in microfluidic technologies for single-cell manipulation, sorting, and analysis, with a focus on miniaturization, integration, and automation.

Biosensing Strategies: Exploring novel biosensing approaches such as surface plasmon resonance, electrochemical, and optical sensors that enable the rapid and sensitive detection of biomarkers at the single-cell level.

Nanotechnology Applications: Showcasing the use of nanomaterials, nanoparticles, and nanoscale structures for enhancing signal amplification, target recognition, and multiplexed analysis in POC diagnostic devices.





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Editor-in-Chief

Message from the Editor-in-Chief

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Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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