Special Issue

PCR Chips for Biomarker Discovery and Validation in Drug Development

Message from the Guest Editor

Biomarker research, combined with PCR chip technologies, is set to bring significant changes to pharmaceutical sciences. This Special Issue, titled 'PCR Chips for Biomarker Discovery and Validation in Drug Development,' will explore the critical role of PCR chips in identifying, validating, and monitoring biomarkers throughout the drug development process. Fully integrated PCR chips enable precise genetic and molecular biomarker detection, transforming patient stratification, therapeutic optimization, and companion diagnostics. Topics include the use of PCR chips in pharmacokinetics, pharmacodynamics, predictive biomarker studies, high-throughput screening for resistance biomarkers, and real-time response monitoring. We also welcome submissions on innovations in chip design, miniaturization, and integration with point-of-care platforms. The goal is to demonstrate how PCR technologies are accelerating drug discovery and enhancing personalized medicine. We invite researchers, clinicians, and innovators to submit research papers, short communications, and reviews to share your recent findings and contribute to the future of pharmaceutical sciences.

Guest Editor

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Editor-in-Chief

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