

Advanced Optical Flow Cytometry: Methods and Disease Diagnoses

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A detailed look at the latest research in non-invasive in vivo cytometry and its applications, with particular emphasis on novel biophotonic methods, disease diagnosis, and monitoring of disease treatment at single cell level in stationary and flow conditions.
This book thus covers the spectrum ranging from fundamental interactions between light, cells, vascular tissue, and cell labeling particles, to strategies and opportunities for preclinical and clinical research. General topics include light scattering by cells, fast video microscopy, polarization, laser-scanning, fluorescence, Raman, multi-photon, photothermal, and photoacoustic methods for cellular diagnostics and monitoring of disease treatment in living organisms. Also presented are discussions of advanced methods and techniques of classical flow cytometry.

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Editorial Review

From the Back Cover
A detailed look at the latest research in non-invasive *in vivo* cytometry and its applications, with particular emphasis on novel biophotonic methods, disease diagnosis, and monitoring of disease treatment at single cell level in stationary and flow conditions. This book thus covers the spectrum ranging from fundamental interactions between light, cells, vascular tissue, and cell labeling particles, to strategies and opportunities for preclinical and clinical research. General topics include light scattering by cells, fast video microscopy, polarization, laser-scanning, fluorescence, Raman, multi-photon, photothermal, and photoacoustic methods for cellular diagnostics and monitoring of disease treatment in living organisms. Also presented are discussions of advanced methods and techniques of classical flow cytometry.

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