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Altri autori (Persone)	DurackGary RobinsonJ. Paul
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Nota di contenuto

EMERGING TOOLS FOR SINGLE-CELL ANALYSIS; Contents; Preface; Contributors; 1 Cell-Sorting Technology; 2 High-Speed Cell Sorting; 3 Rare-Event Detection and Sorting of Rare Cells; 4 Applications of High-Speed Sorting for CD34(+) Hematopoietic Stem Cells; 5 Microfabricated Fluidic Devices for Single-Cell Handling and Analysis; 6 Single DNA Fragment Detection by Flow Cytometry; 7 Fluorescence Lifetime Imaging: New Microscopy Technologies; 8 Fluorescence Lifetime Flow Cytometry; 9 Application of Fluorescence Lifetime and Two-Photon Fluorescence Cytometry  
10 Probing Deep-Tissue Structures by Two-Photon Fluorescence Microscopy  
11 Limits of Confocal Imaging; 12 Scanning Near-Field Optical Imaging and Spectroscopy in Cell Biology; 13 White-Light Scanning Digital Microscopy; 14 Illumination Sources; 15 Camera Technologies for Cytometry Applications; Index

Sommario/riassunto

The resurgence of interest in high-resolution evaluation of single-cell properties has led to examining where current technology stands at the beginning of a new millennium. Engineers and scientists have produced significant advances in cytometric technologies in just the past few years. Emerging Tools for Single-Cell Analysis: Advances in Optical Measurement Technologies stresses the applications and theories behind some of these advances in cell measurement and cell- sorting technologies. Rapid assessment of the proper function of cells and molecular processes within cells is