



Optical Microscopy: Emerging Methods and Applications

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Optical Microscopy: Emerging Methods and Applications covers recent technical advances and new approaches to monitoring and altering cell physiology, examining membrane cytoarchitecture, observing multiple cellular activities and intact organ physiology, plus confocal imaging of live cell function, lifetime imaging, and automated clinical imaging cytometry. The book provides the reader with a synopsis of the most recent technical developments in optical microscopy as applied to scientific research. Each chapter introduces new methods by describing how these overcome limitations inherent in previous techniques. Software, hardware, and other equipment concerns are covered. Additionally, the book reviews current applications in order to stimulate future developments in optical microscopy, encouraging novel uses and new technical advances

- Caged compounds, fluorescence ratio imaging, and CCD video cameras
- Simultaneous multiple detection and real-time fluorescence microscopy
- Simultaneous DIC and quantitative LLF video imaging
- Total internal reflectance, time-resolved, and automated fluorescence microscopy
- Laser-scanning confocal microscopy
- Imaging for calcium measurements, membranes, glycoproteins, living cells, and cancer cells

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