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| Soggetti | Imaging systems in biology<br>Cytology<br>Laser spectroscopy |
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| Nota di contenuto | Laser Imaging and Manipulation in Cell Biology; Contents; List of Contributors; Introduction; Part One: Multiphoton Imaging and Nanoprocessing; 1 Multiphoton Imaging and Nanoprocessing of Human Stem Cells; 2 In Vivo Nanosurgery; Part Two: Light-Molecule Interaction Mechanisms; 3 Interaction of Pulsed Light with Molecules: Photochemical and Photophysical Effects; 4 Chromophore-Assisted Light Inactivation: A Twenty-Year Retrospective; 5 Photoswitches; 6 Optical Stimulation of Neurons; Part Three: Tissue Optical Imaging; 7 Light-Tissue Interaction at Optical Clearing<br>Part Four: Laser Tissue Operation8 Photodynamic Therapy - the Quest for Improved Dosimetry in the Management of Solid Tumors; 9 Laser Welding of Biological Tissue: Mechanisms, Applications and |

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| | Perspectives; Conclusions; References; Index |
| Sommario/riassunto | Here, the editor has gathered a team of international experts to present the latest advances in the field of laser imaging and manipulation techniques. The result is broad coverage of the interactions with biological samples to perform novel optical manipulation operations, both on the cellular and tissue levels. Of interest to physicists working and researching laser tissue mechanisms, cell biologists investigating new imaging and manipulation operation on the cellular level, medical doctors working with new laser therapies and diagnostic tools, as well as engineers developing new technol |