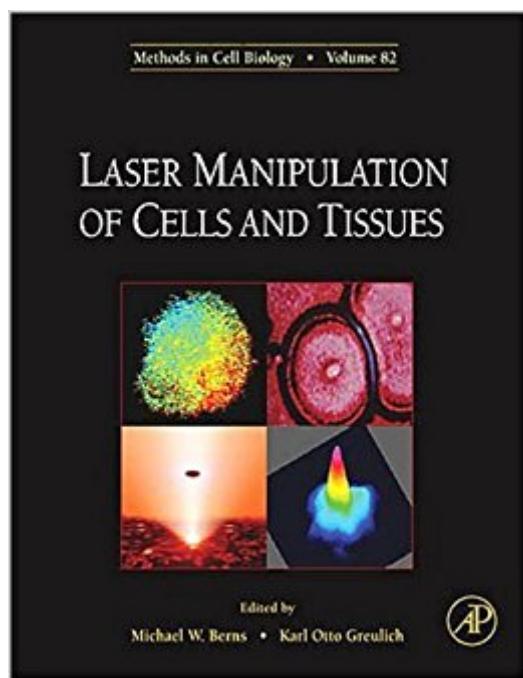


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Laser Manipulation Of Cells And Tissues, Volume 82 (Methods In Cell Biology)



Synopsis

The use of laser-based manipulation tools has literally exploded on the cell biology and molecular pathology scene, resulting in as many different laser micromanipulation systems as there are people using them. *Laser Manipulation of Cells and Tissues* ties all these systems and studies together, describing all of the different kinds of research and practical/analytical applications of laser manipulation. It also provides the reader with the basic information needed to actually build one's own laser micro-manipulation system. The combination of imaging and molecular probe technology with laser micromanipulation greatly extends the use of this technology in molecular, cellular, developmental and patho-biology/medicine. This book should be valuable to scientists, clinicians, and students in the fields of cell and developmental biology, cell physiology, cancer biology, pathology, and stem cell biology. Devotes four chapters to laser catapulting and capture of DNA and other cellular material for biochemical analysis - a major use of this technology that has been adapted for molecular pathology both in clinical medicine and research. Discusses the theory of laser tweezers (optical tweezers) and its application to novel problems in biology. Covers topics on optoporation (getting things into cells), uncaging of molecules, and the ability to collect and analyze nanomolar amounts of cell material by an array of biochemical/physical tools of particular interest to cell biologists and drug discovery researchers.

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