



Single-Molecule Techniques: A Laboratory Manual

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As molecular and cellular biologists move toward nano techniques for performing experiments on single molecules rather than on populations of molecules, a comprehensive manual on how (and why) to carry out such experiments is needed. *Single-Molecule Techniques: A Laboratory Manual* fills this requirement--it is the first to take researchers who know nothing about single molecule analyses to the point where they can successfully design and execute appropriate experiments. Geared toward research scientists in structural and molecular biology, biochemistry, and biophysics, the manual will be useful to all who are interested in observing, manipulating, and elucidating the molecular mechanisms and discrete properties of macromolecules. Techniques range from in vivo and in vitro fluorescent based methods to the use of atomic force microscopy, optical and magnetic tweezers, and nanopores. The book is edited by Paul R. Selvin and Taekjip Ha, two pioneers in the field of experimental biophysics who have made significant contributions to the development and application of single molecule technologies.

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