

R. Rigler
E. S. Elson
(Eds.)

Fluorescence Correlation Spectroscopy

Theory
and Applications



Springer

Fluorescence Correlation Spectroscopy Theory And Applications Springer Series In Chemical Physics

Meni Wanunu, Yitzhak Tor



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Fluorescence Correlation Spectroscopy R. Rigler, E.S. Elson, 2012-12-06 Fluorescence correlation spectroscopy FCS was developed in order to characterize the dynamics of molecular processes in systems in thermodynamic equilibrium FCS determines transport and chemical reaction rates from measurements of spontaneous microscopic thermally driven molecular concentration fluctuations Since its inception and particularly in recent years technical and conceptual advances have extended the range of practical applicability and the information obtainable from FCS measurements Improvements in microscopy data acquisition and data processing have greatly shortened the time required for FCS measurements FCS can now be routinely applied to labile systems such as cells and for the acquisition of large volumes of data as required for high throughput screening Cross correlation methods provide a powerful tool for characterizing interactions among different molecular species Analysis of the amplitude of concentration fluctuations can provide a wealth of information about aggregation polymerization process and the compositions of mixtures Furthermore FCS provides a bridge between conventional measurements of dynamic processes on a macroscopic concentration scale and the currently developing field of single molecule measurements Both FCS and single molecule approaches measure directly stochastic fluctuations in molecular properties and so must be analyzed by statistical methods to yield conventional phenomenological parameters As commonly practiced FCS yields these phenomenological parameters e.g diffusion coefficients and chemical rate constants directly in terms of a fluorescence fluctuation autocorrelation function

Handbook of Biomedical Nonlinear Optical Microscopy Barry R. Masters, Peter So, 2008-05-19 The Handbook of Biomedical Nonlinear Optical Microscopy provides comprehensive treatment of the theories techniques and biomedical applications of nonlinear optics and microscopy for cell biologists life scientists biomedical engineers and clinicians The chapters are separated into basic and advanced sections and provide both textual and graphical illustrations of all key concepts The more basic sections are aimed at life scientists without advanced training in physics and mathematics and tutorials are provided for the more challenging sections The first part of the Handbook introduces the historical context of nonlinear microscopy The second part presents the nonlinear optical theory of two and multiphoton excited fluorescence TPE MPE spectroscopy second and third harmonic generation SHG THG spectroscopy and coherent anti Stokes Raman spectroscopy CARS The third part introduces modern microscopic and spectroscopic instrumentation and techniques that are based on nonlinear optics The fourth part provides key applications of nonlinear microscopy to the biomedical area neurobiology immunology tumor biology developmental biology dermatology and cellular metabolism There are also chapters on nonlinear molecular probes cellular damage and nanoprocessing

Methods for Studying Nucleic Acid/Drug Interactions Meni Wanunu, Yitzhak Tor, 2016-04-19 Since most therapeutic efforts have been predominantly focused on pharmaceuticals that target proteins there is an unmet need to develop drugs that intercept cellular pathways that critically involve nucleic acids Progress in the discovery of nucleic acid

binding drugs naturally relies on the availability of analytical methods that assess the efficiency of binding. **Handbook of Single Molecule Fluorescence Spectroscopy** Chris Gell, David Brockwell, Alastair Smith, 2006-08-17 This is a practical introduction to single molecule fluorescence experiments the analysis of the data and applications of the techniques to the study of biological structure and function **Journal of the Royal Society, Interface** ,2009 **Pteridines** ,2002 **Ultrafast Phenomena** ,2004 **Biological and Synthetic Polymer Networks and Gels** Ferenc Horkay, Eric J. Amis, 2005-12-06 This volume of Macromolecular Symposia contains papers presented at the Polymer Networks 2004 Conference held in Bethesda MD in August 2004 The conference highlighted the latest findings in the fields of materials science nanotechnology surface science rheology and modeling relevant to the formation structure and application of synthetic and biopolymer networks and gels In particular the conference focused on contemporary experimental tools and theoretical models to describe biological phenomena with physical concepts that allow predictive model driven research The collection of papers illustrates the revolution that this rapidly expanding field of polymer science is currently experiencing notably in the areas of biomedical research medical diagnostics and biotechnology **FLIM Microscopy in Biology and Medicine** Ammasi Periasamy, Robert M. Clegg, 2009-07-06 Detecting Signals at the Single Molecule Level Pioneering Achievements in Microscopy Recent advances have led to such remarkable improvements in fluorescence lifetime imaging microscopy's FLIM capacity for contrast and sensitivity that researchers can now employ it to detect signals at the single molecule level FLIM also offers the additional benefit of high temporal resolution **Ultrafast Phenomena XIII** R. J. Dwayne Miller, 2003 This book presents the latest advances in ultrafast science including both ultrafast optics technology and the study of ultrafast phenomena It covers picosecond femtosecond and attosecond processes relevant to physics chemistry biology and engineering applications Ultrafast technology has a profound impact in a wide range of applications among them biomedical imaging chemical dynamics frequency standards materials processing and ultrahigh speed communications This book summarizes the results presented at the 13th International Conference on Ultrafast Phenomena and provides an up to date view of this important and rapidly advancing field **American Book Publishing Record** ,2007 **Fluorescence Methods and Applications** Otto S. Wolfbeis, 2008-07 This volume features papers on new spectroscopic methods and techniques the development and application of fluorescent probes and new techniques and applications of fluorescence imaging Specific areas include the following fluorescence lifetime fluorescence in vivo imaging time resolved fluorescence luminescence anisotropy fluorescent NMIR labels luminescent lanthanides fluorescent sensors and probes fluorescence microscopy FRET fluorescent nanoparticles and dots high throughput screening fluorescent bioassays luminescence based DNA technologies FISH and immunohistochemistry luminescence on metal surfaces fluorescent proteins upconversion multiphoton fluorescence confocal techniques near field and far field techniques single photon counting fluorescence correlation spectroscopy FCS and flow cytometry NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www.blackwellpublishing.com

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