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Spectroscopic Membrane Probes

Volume I

Edited by
Leslie M. Loew



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Leslie M. Loew



Spectroscopic Membrane Probes:

SPECTROSCOPIC MEMBRANE PROBES Leslie M. Loew, 1988-05-31 **Spectroscopic Membrane Probes** Leslie M. Loew, 2018-04-19 The general picture we have of membranes and of the properties of the proteins imbedded in them has arguably emerged directly from probe studies over the past 20 years This work is designed to make these techniques accessible to a board audience of cell biologists The techniques discussed revolve primarily around the fluorescence of membrane probes but applications of light absorption and Raman scattering are included In addition to reviews of the major applications most chapters include information on the required apparatus experimental design data analysis and potential pit falls

Spectroscopic Membrane Probes Leslie M. Loew, 2018-04-19 The general picture we have of membranes and of the properties of the proteins imbedded in them has arguably emerged directly from probe studies over the past 20 years This work is designed to make these techniques accessible to a board audience of cell biologists The techniques discussed revolve primarily around the fluorescence of membrane probes but applications of light absorption and Raman scattering are included In addition to reviews of the major applications most chapters include information on the required apparatus experimental design data analysis and potential pit falls

Spectroscopic Membrane Probes Leslie M. Loew, 2018-04-17 The optical spectra of molecular membrane probes can be interpreted terms of the structure dynamics and the physiological state of the membrane The general picture we have of membranes and of the properties of the proteins imbedded in them has arguably emerged directly from probe studies over the last 20 years This work is designed to make these techniques accessible to a broad audience of cell biologist The techniques discussed revolve primarily around the fluorescence of membrane probes but applications of light absorption and Raman scattering are included In addition to reviews of the major applications most chapters include information on required apparatus experimental design data analysis and potential pitfalls

SPECTROSCOPIC MEMBRANE PROBE Leslie M. Loew, 1988-05-31 **Membrane Spectroscopy** E. Grell, 2012-12-06 The last 10 years have seen an enormous growth in our understanding of the molecular organisation of biological membranes Experimental methods have been devised to meas ure the translational and rotational mobility of lipids and proteins thereby furnishing a quantitative basis for the concept of membrane fluidity Likewise the asymmetry of bi layer membranes as evidenced by the asymmetric insertion of proteins and lipids has been put on firm experimental ground At higher molecular resolution it has been possible to provide a detailed pi2ture of the molecular conformation and dynamics of lipids and to some extent even of small peptides embedded in a bilayer matrix Many of these achieve ments would not have been possible without the application of modem spectroscopic methods Since these techniques are scattered in a variety of specialized textbooks the present monograph attempts to describe the key spectroscopic methods employed in present day membrane research at an intermediate level There is no question that the elusive detailed structure of the biological membrane demands a multiplicity of experi mental approaches and that no single spectroscopic method can cover the full range of

physical phenomena encountered in a membrane Much confusion in the literature has arisen by undue generalizations without considering the frequency range or other limitations of the methods employed It is to be hoped that the present monograph with its comprehensive description of most modern spectroscopic techniques will contribute to

Bioelectrochemistry of Membranes Dieter Walz, Justin Teissié, Giulio Milazzo, 2012-12-06 Bioelectrochemistry of Membranes is the last volume in the book series Bioelectrochemistry Principles and Practice that provides a comprehensive compilation of physicochemical aspects of different biochemical and physiological processes This sixth volume introduces basic knowledge and important electrochemical and biophysical aspects of membrane potentials lipid bilayers and cell membranes The volumes of this book series serve as source books for advanced students and researchers at all levels of bioelectrochemistry

Principles of Fluorescence Spectroscopy Joseph R. Lakowicz, 2013-04-17 In the second edition of Principles I have attempted to maintain the emphasis on basics while updating the examples to include more recent results from the literature There is a new chapter providing an overview of extrinsic fluorophores The discussion of time-resolved measurements has been expanded to two chapters Quenching has also been expanded in two chapters Energy transfer and anisotropy have each been expanded to three chapters There is also a new chapter on fluorescence sensing To enhance the usefulness of this book as a textbook most chapters are followed by a set of problems Sections which describe advanced topics are indicated as such to allow these sections to be skipped in an introduction course Glossaries are provided for commonly used acronyms and mathematical symbols For those wanting additional information the final appendix contains a list of recommended books which expand on various specialized topics from the author's Preface

Fluorescence Spectroscopy, Imaging and Probes Ruud Kraayenhof, Antonie J.W.G. Visser, Hans C. Gerritsen, 2012-12-06 The application of fluorescence in drug discovery high throughput screenings in genomics and proteomics is and will be evidently successful The increased use of fluorescence techniques is greatly enhanced by the improved instrumentation pioneered by inventive scientists and now made available commercially by several high tech companies Moreover the design and development of many new molecular probes with higher selectivity for specific microenvironmental properties has stimulated many new researchers to employ fluorescence techniques for solving their problems Probably the most significant breakthrough in fluorescence is its use in detection of single molecules and even of their real time dynamics Also probing inside living cells has become a hot topic in the life sciences This topic book reflects the updates of scientific progress presented by frontline researchers

Chemical Biology Banafshe Larijani, Colin A. Rosser, Rudiger Woscholski, 2006-08-04 Written by a team of international researchers and teachers at the cutting edge of chemical biology research this book provides an exciting comprehensive introduction to a wide range of chemical and physical techniques with applications in areas as diverse as molecular biology signal transduction drug discovery and medicine Techniques include Cryo electron microscopy atomic force microscopy differential scanning calorimetry in the study of lipid structures membrane potentials and membrane

probes identification and quantification of lipids using mass spectroscopy liquid state NMR solid state NMR in biomembranes molecular dynamics two dimensional infra red studies of biomolecules single and two photon fluorescence optical tweezers PET imaging and chemical genetics KEY FEATURES a unique guide to the rapidly evolving interdisciplinary field of chemical biology adopts a molecular structure for maximum flexibility addresses relevant topical chemical biological questions throughout includes stunning illustrations associates website with PowerPoint slides of figures within the book Chemical Biology Techniques and Applications provides an invaluable resource for final year undergraduate and post graduate bioscience and biomedical students and pharmaceutical researchers with an interest in this fascinating and ever changing field

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