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Spectroscopic Membrane Probes

Joseph R. Lakowicz



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

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Principles of Fluorescence Spectroscopy Joseph R. Lakowicz, 2013-11-11 Fluorescence methods are being used increasingly in biochemical medical and chemical research This is because of the inherent sensitivity of this technique and the favorable time scale of the phenomenon of fluorescence 8 Fluorescence emission occurs about 10 sec 10 nsec after light absorption During this period of time a wide range of molecular processes can occur and these can effect the spectral characteristics of the fluorescent compound This combination of sensitivity and a favorable time scale allows fluorescence methods to be generally useful for studies of proteins and membranes and their interactions with other macromolecules This book describes the fundamental aspects of fluorescence and the biochemical applications of this methodology Each chapter starts with the theoretical basis of each phenomenon of fluorescence followed by examples which illustrate the use of the phenomenon in the study of biochemical problems The book contains numerous figures It is felt that such graphical presentations contribute to pleasurable reading and increased understanding Separate chapters are devoted to fluorescence polarization lifetimes quenching energy transfer solvent effects and excited state reactions To enhance the usefulness of this work as a textbook problems are included which illustrate the concepts described in each chapter Furthermore a separate chapter is devoted to the instrumentation used in fluorescence spectroscopy This chapter will be especially valuable for those performing or contemplating fluorescence measurements Such measurements are easily compromised by failure to consider a number of simple principles

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

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