

PHOTOCHEMISTRY OF PROTEINS AND NUCLEIC ACIDS

BY

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AND

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PERGAMON STUDENT EDITIONS

Photochemistry Of Proteins And Nucleic Acids

Michael J. Clarke



Photochemistry Of Proteins And Nucleic Acids:

Photochemistry of Proteins and Nucleic Acids A. D. McLaren, D. Shugar, 2016-06-06 Photochemistry of Proteins and Nucleic Acids focuses on the effects of ultraviolet and visible radiations on proteins and nucleic acids. The book first discusses some principles of photochemistry including the laws of photochemistry and factors influencing photochemical reactions in solutions. The text describes absorption and luminescence spectra of nucleoproteins and their components including principal absorbing groups in proteins, nucleic acids, and nucleoproteins. The selection also highlights the action of ultraviolet light on proteins, photochemical and photosensitized inactivation of enzymes, and the photochemistry of purine and pyrimidine derivatives. The text also discusses nucleic acids and oligo and polynucleotides. Topics include photochemical degradation of nucleic acid kinetics of biological inactivation of nucleic acids, nucleoproteins, and reversibility of nucleic acid photolysis. The book also encompasses the inactivation of viruses including inactivation studies with a plant virus, bacteriophages, and photochemically produced vaccines. The text also presents some problems in photobiology and some techniques in photochemistry. The text is a good source of information for readers interested in the study of proteins and nucleic acids.

Based on the standards and codes from Fo *Photochemistry of Proteins and Nucleic Acids. [With Plates.]*. Arthur Douglas MACLAREN (and SHUGAR (David)), 1964 **Photochemistry of Proteins and Nucleic Acids** Arthur Douglas

McLaren, David Shugar, 1964 Photochemistry of Proteins and Nucleic Acids deals with photobiology **Photochemistry and Photobiology of Nucleic Acids** Shih Yi Wang, 2012-12-02 Photochemistry and Photobiology of Nucleic Acids Volume II Biology is a collection of papers that deals with the biological effects due to stable UV induced alterations in critical cellular macromolecules including cell death, growth delay, mutagenesis, and carcinogenesis. The papers assume that DNA is the macromolecule most relevant to cell pathology as well as to the photochemical and photobiological properties of RNA which are essential in cellular functions. One paper investigates the UV induced cross linkings of proteins with nucleic acids as a possible cause of biological effects other than just in terms of the damage done to nucleic acids. Other papers discuss the mechanisms of protection against and in the repair of damage caused by UV photons and by ionizing radiation, also chemical mutagens in many organisms from viruses to mammalian cells. The repair processes appear to play a role in monitoring and preserving the structural integrity of DNA during physiological processes such as replication and transcription. One paper notes that in experiments on human embryonic lung fibroblasts WI 38 at very high radiation doses, radiation products of Thy in acid soluble form appear while products from the DNA acid precipitable fraction disappear. The paper suggests that the excision process is therefore selective. The collection is suitable for biochemists, microbiologists, or academicians whose works involve genetics, cancer, and cellular research. *Photochemistry and Photobiology of Nucleic Acids: Biology* Shih Yi

Wang, 1976 **Photochemical and Photobiological Reviews** Kendrick C. Smith, 2013-11-11 The goals of the science of photobiology can be divided into four categories to develop I ways to optimize the beneficial effects of light on man and his

environment 2 methods to protect organisms including man from the detrimental effects of light 3 photochemical tools for use in studies of life processes and 4 photochemical therapies in medicine To achieve these goals will require the knowledgeable collaboration of biologists chemists engineers mathematicians physicians and physicists because photobiology is a truly multidisciplinary science While a multidisciplinary science is more intellectually demanding it also has a greater potential for unexpected breakthroughs that can occur when data from several areas of science are integrated into new concepts for theoretical or practical use Photochemical and Photobiological Reviews continues to provide in depth coverage of the many specialty areas of photobiology It is hoped that these reviews will provide an important service to the younger scientists in the field and to senior scientists in related fields because they provide a ready access to the recent literature in the field and more importantly they frequently offer a critical evaluation of the direction that the field is taking or suggest a redirection when appropriate Since it is important that this review series remain responsive to the needs of photochemists and photobiologists the Editor would value comments and suggestions from its readers

Process Technologies for Water Treatment S. Stucki, 2013-03-09 The Brown Boveri Scientific Symposia by now are part of a firmly established tradition This is the tenth event in a series which was initiated shortly after Corporate Research was created as a separate entity in our company the symposia are held every other year The themes have been 1969 Flow Research on Blading 1971 Real Time Control of Electric Power Systems 1973 High Temperature Materials in Gas Turbines 1975 Nonemissive Electrooptic Displays 1977 Current Interruption in High Voltage Networks 1979 Surges in High Voltage Networks 1981 Semiconductor Devices for Power Conditioning 1983 Corrosion in Power Generating Equipment 1985 Computer Systems for Process Control 1987 Process Technologies for Water Treatment The tenth event in an uninterrupted series that by now goes back almost 20 years is a good opportunity to make a few remarks on the guiding rules that have governed our symposia Why have we chosen these titles At the outset we established certain selection criteria we felt that a subject for a symposium should fulfill the following three requirements It should characterize a part of an established discipline in other words it should describe an area of scholarly study and research It should be of current interest in the sense that important results have recently been obtained and considerable research is still being undertaken in the world's scientific community It should bear some relation to the scientific and technological activity of the company

Photochemistry and Luminescence of Proteins Irfi Andreevich Vladimirov, 1986 **Photochemistry of Macromolecules** R. F. Reinisch, 1970 Our knowledge of the photodegradation of polymers chemical evolution photosynthesis visual perception and the biological effects of light depends heavily on our ability to elucidate the primary photochemical processes of macromolecules This volume brings together for the first time from the fields of natural as well as synthetic polymers a group of reports dealing with macromolecular photochemistry Since macromolecular photochemistry is an expanding new field that crosses the boundaries between classical disciplines the reader will encounter the employment of diverse scientific approaches and

unfamiliar terminology However it has become increasingly apparent that researchers in these fields have much to learn from each other Although this book is not intended to give a detailed survey of the photochemistry of macromolecules it does represent the editor s perspective on the relationship between theory kinetic studies and the synthesis aspects of photochemistry The ideas expressed by the contributors offer a valuable com posite of theoretical and experimental approaches for those who are concerned with problems which have photochemical relevance and show that investigators from different fields share many concepts and perhaps some common problems This novel array of present knowledge should provide a basis for organizing and understanding photochemical information from chemistry physics biology and medicine While of particular value to the research worker the book also should be of interest to the graduate student about to embark on a problem in macromolecular photo chemistry

Photochemical Crosslinking and Mass Spectrometric Characterization of DNA-binding Proteins and Oligonucleotides Dallas Allan Connor,1997

Bioorganic Photochemistry, Photochemistry and the Nucleic Acids Harry Morrison,1990-04-25 This review of the ways in which ultraviolet and visible light affect the nucleic acids includes changes caused by excitation of the nucleic acids themselves as well as reactions caused by photoexcitation of other reagents in the presence of nucleic acids

Photochemistry of Macromolecules R. F. Reinisch,2012-12-06 Our knowledge of the photodegradation of polymers chemical evolution photosynthesis visual perception and the biological effects of light depends heavily on our ability to elucidate the primary photochemical processes of macromolecules This volume brings together for the first time from the fields of natural as well as synthetic polymers a group of reports dealing with macromolecular photochemistry Since macromolecular photo chemistry is an expanding new field that crosses the boundaries between classical disciplines the reader will encounter the employment of diverse scientific approaches and unfamiliar terminology However it has become increasingly apparent that researchers in these fields have much to learn from each other Although this book is not intended to give a detailed survey of the photochemistry of macromolecules it does represent the editor s perspective on the relationship between theory kinetic studies and the synthesis aspects of photochemistry The ideas expressed by the contributors offer a valuable com posite of theoretical and experimental approaches for those who are concerned with problems which have photochemical relevance and show that investigators from different fields share many concepts and perhaps some common problems This novel array of present knowledge should provide a basis for organizing and understanding photochemical information from chemistry physics biology and medicine While of particular value to the research worker the book also should be of interest to the graduate student about to embark on a problem in macromolecular photo chemistry

Applications of Photochemistry in Probing Biological Targets Andrew M. Tometsko,Frederic Middlebrook Richards,New York Academy of Sciences,1980

Photochemical Processes in Polymer Chemistry Frans C. de Schryver,1973

Photochemistry of Nucleic Acids Including Crosslinking to Proteins Catherine Harrison,1984

Elektrochemische Methoden und Prinzipien in der Molekular-Biologie Hermann Berg,1966

Less

Common Metals in Proteins and Nucleic Acid Probes Michael J. Clarke, 2013-10-03 Some of the more interesting elements in the chemistry of life are less commonly occurring ones such as nickel and molybdenum This volume elucidates the chemistry of these elements in important enzymes and also explores the chemistry of elements that do not normally occur in biological molecules but are useful in probing their structure and function Topics include Acquisition and transport of Ni Mechanistic action of Ni in a wide variety of enzymes Multielectron redox systems involving pterins in proteins Chemistry of the pterin and flavin complexes of Mo Fe Cu and Ru ions Replacement of iron in transferrin by a number of other metal ions Use of polypyridyl complexes of ruthenium and other transition metals as probes of nucleic acid structure through photochemical reactions Nucleic Acid Photophysics and Photochemistry Spiridoula Matsika, Andrew H. Marcus, 2024-11-16 This volume focuses on recent advancements in our current understanding of nucleic acid photochemistry and its relationship to biologically relevant phenomena Understanding the photophysical properties of nucleic acids is an area of longstanding and active research Over the years the field has greatly benefitted from steady advances in spectroscopic techniques and computational methods to study molecular excited states which have facilitated detailed studies of the behavior of nucleic acids and their components after they absorb light Experiments performed on ultrafast time scales femtoseconds picoseconds have permitted the accurate determination of excited state lifetimes while computational studies have provided detailed microscopic information about the mechanisms involved As our understanding of the fundamental photophysics of nucleic acids has advanced current studies now focus on systems of higher complexity and introduce novel optical techniques to investigate the interactions between nucleic acids and proteins Spectroscopic studies of nucleic acids particularly nucleic acid constructs labeled with optical probes can yield richly detailed information important to molecular biology biochemistry and biophysics This book is a must read for anyone interested in the photophysical properties of nucleic acids and their role in biologically relevant phenomena **Photophysiology: Current topics in photobiology and photochemistry** Arthur Charles Giese, 1964 The Yale Journal of Biology and Medicine, 1965

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