

Photochemistry of
Proteins and Nucleic
Acids (Pure & Applied
Biological Monograph)

McLaren, Arthur Douglas

Photochemistry Of Proteins And Nucleic Acids

Catherine Harrison



Photochemistry Of Proteins And Nucleic Acids:

Photochemistry of Proteins and Nucleic Acids A. D. McLaren, D. Shugar, 2014-05-16 Photochemistry of Proteins and Nucleic Acids deals with photobiology The book briefly introduces the principles of photochemistry with a short discussion on absorption spectra and related absorbing structures as well as on the general nature of photochemical reactions in solutions The following information covers how proteins nucleic acids viruses and their basic structures are chemically and physically affected when exposed to visible radiation and ultraviolet light The book explains that the site of action of the ultraviolet light when applied to proteins in a small active center shows that other parts of the protein are also affected considered as an energy transfer Then the general conclusions pertaining to the physicochemical and chemical changes in nucleic acids through directed radiation doses that are big enough to induce modifications are enumerated The text further explains that the physicochemical modifications which occur when proteins are irradiated can accompany loss in enzyme activity The kinetics of inactivation of dry enzymes is compared to the photochemistry of enzymes in a solution The inactivation of viruses is important as the process of replication can cause some formed viruses to spread in its environment worsening the state of infection Hence the problem which components in a biological system absorb effective radiation is analyzed The book is suitable for microbiologists microchemists and laboratory researchers and scientists dealing with infectious diseases

Photochemistry of Proteins and Nucleic Acids. [With Plates.] Arthur Douglas MACLAREN (and SHUGAR (David)), 1964 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 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 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 composite 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

Chemistry of Protein and Nucleic Acid Cross-Linking and Conjugation Shan S. Wong, David M. Jameson, 2011-10-10 Since the publication of the first edition of *Chemistry of Protein Conjugation and Cross Linking* in 1991 new cross linking reagents notably multifunctional cross linkers have been developed and synthesized The completion of the human genome project has opened a new area for studying nucleic acid and protein interactions using nucleic acid cross

Photochemical and Photobiological Reviews Kendric Smith, 2012-12-06 The goals of the science of photobiology can be divided into four categories to develop 1 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 multi disciplinary 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 Kendrick C Smith Editor vii Contents v Contents of Earlier Volumes Preface vii Chapter 1 The Activation of Enzymes with Light **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 Photochemical Crosslinking and Mass Spectrometric Characterization of DNA-binding Proteins and Oligonucleotides Dallas Allan Connor, 1997

Photochemistry D Bryce-Smith, 2007-10-31 The breadth of scientific and technological interests in the general topic of photochemistry is truly enormous and includes for example such diverse areas as microelectronics atmospheric chemistry organic synthesis non conventional photoimaging photosynthesis solar energy conversion polymer technologies and spectroscopy This Specialist Periodical Report on Photochemistry aims to provide an annual review of photo induced processes that have relevance to the above wide ranging academic and commercial disciplines and interests in chemistry physics biology and technology In order to provide easy access to this vast and varied literature each volume of Photochemistry comprises sections concerned with photophysical processes in condensed phases organic aspects which are

sub divided by chromophore type polymer photochemistry and photochemical aspects of solar energy conversion Volume 34 covers literature published from July 2001 to June 2002 Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

Photochemical and Photobiological Reviews Kendric C. Smith,2013-11-11 The goals of the science of photobiology can be divided into four categories to develop 1 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 multidis ciplinary 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 com ments and suggestions from its readers

The Science of Photobiology Kendric C. Smith,2013-03-08 The first edition of *The Science of Photobiology* was published in 1977 and was the first textbook to cover all of the major areas of photobiology The science of photobiology is currently divided into 14 subspecialty areas by the American Society for Photobiology In this edition however the topics of phototechnology and spectroscopy have been com bined in a new chapter entitled Photophysics The other subspecialty areas remain the same i e Photochemistry Photosensitization UV Radiation Effects Environmental Photobiology Photomedicine Circadian Rhythms Extraretinal Photoreception Vision Photomorphogenesis Photomovement Photosynthesis and Bioluminescence This book has been written as a textbook to introduce the science of photobiology to advanced undergraduate and graduate students The chapters are written to provide a broad overview of each topic They are designed to contain the amount of information that might be presented in a one to two hour general lecture The references are not meant to be exhaustive but key references are included to give students an entry into the literature Frequently a more recent reference that reviews the literature will be cited rather than the first paper by the author making the original discovery The chapters are not meant to be a repository of facts for research workers in the field but rather are concerned with demon strating the importance of each specialty area of

photobiology and documenting its relevance to current and or future problems of man *Applications of Photochemistry in Probing Biological Targets* Andrew M. Tometsko, Frederic Middlebrook Richards, New York Academy of Sciences, 1980

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 Photobiology of Nucleic Acids: Biology Shih Yi Wang, 1976 *Photochemistry of Nucleic Acids Including Crosslinking to Proteins* Catherine Harrison, 1984 Photochemistry Derek Bryce-Smith, 1979 *Biophysical and Physiological Effects of Solar Radiation on Human Skin* Paolo U Giacomoni, 2007-10-31 In an era of global warming knowledge of the effects of solar radiation on humans is of great importance and the latest discoveries in environmental photobiology are presented in this book The Editor has brought together a wide range of world class contributors to provide the reader with information on the clinical effects of solar radiation such as inflammation pigmentation immune suppression cancer and aging with emphasis on the ethnic or genetic background The book also offers updates on the biochemical mechanisms involved in the generation of damage to DNA lipids and proteins and on their removal Each chapter has been written to provide a historical description of the phenomenology followed by the description of the state of the art In this way non specialized and specialised readers alike can be updated in the essential aspects of the field Key topics include Damages from acute versus chronic sun exposure Skin Color Melanin Race Ethnicity and UV Induced DNA Damage The effects of solar radiation on the immune response in humans Genetic background and UV induced skin cancer The photochemistry of indirect damages Lipid and Protein Damage provoked by UV radiation DNA repair therapy This title will become an indispensable resource for students and professional at all levels working in fields relating to photochemistry environmental science biochemistry and biotechnology *Excited States in Organic Chemistry and Biochemistry* Bernard Pullman, N.

Goldblum,1977-10-31 Proceedings of the 10th Jerusalem Symposium on Quantum Chemistry and Biochemistry held in
Jerusalem Israel March 28 31 1977 *Research Grants Index* National Institutes of Health (U.S.). Division of Research
Grants,1975

Whispering the Strategies of Language: An Psychological Journey through **Photochemistry Of Proteins And Nucleic Acids**

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