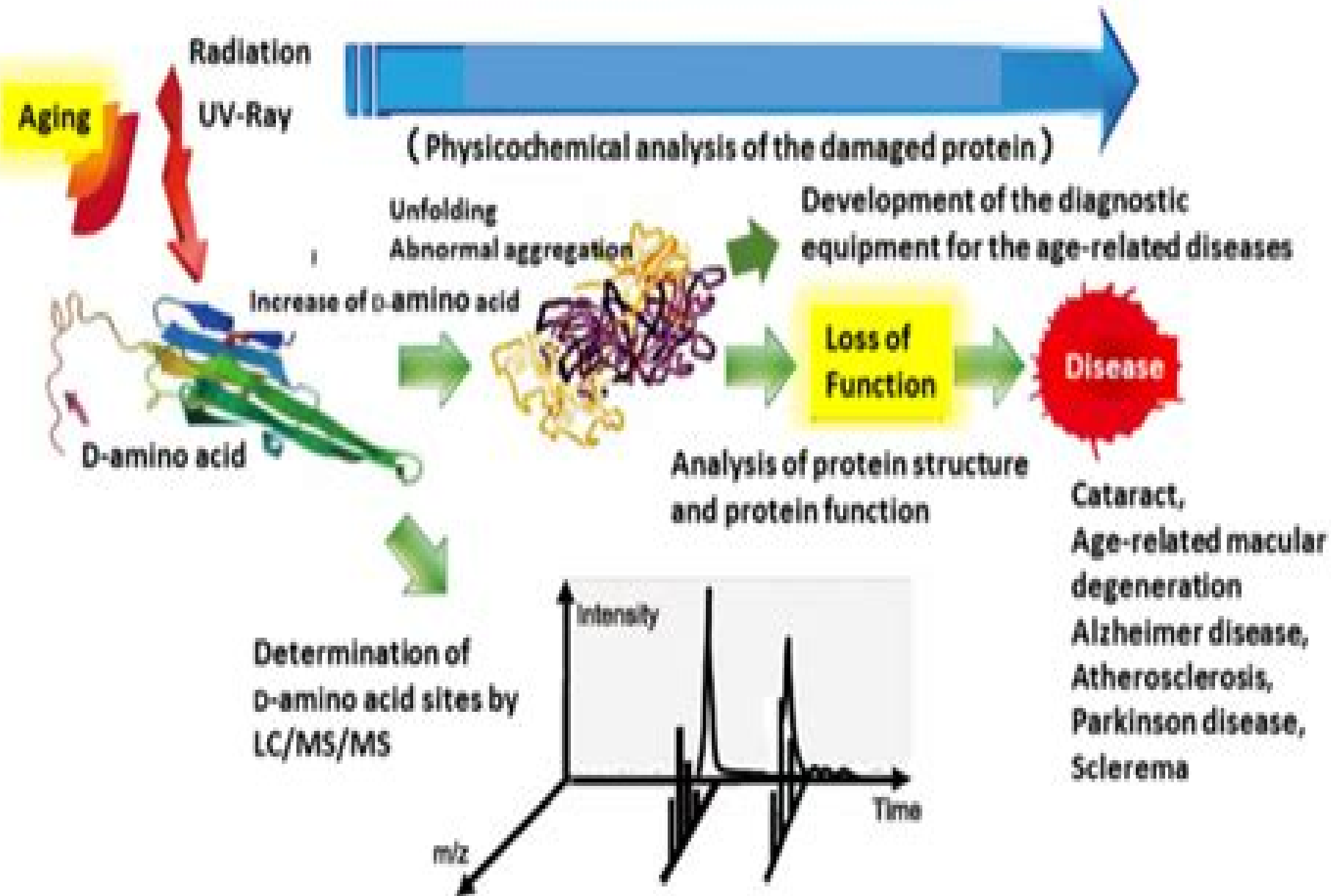


Age-related diseases induced by D-amino acids



Radiation Biochemistry

William A. Glass, Matesh N. Varma



Radiation Biochemistry:

The Molecular Theory of Radiation Biology K. H. Chadwick, H. P. Leenhouts, 2012-12-06 In late 1971 we were involved in a study of the interaction of radiation with matter and were trying to use measurements of radiation fluorescence in biological molecules to indicate how radiation affected living cells. It soon became apparent that we were working in the dark: the doses we used to get a significant signal were too large to be of interest for radiation biology and although the DNA molecule appeared to be the most likely target molecule we did not know which sort of events and which sort of lesions were the most important. We decided to alter our approach to see if we could find any consistent mathematical order in the radiobiological dose relationships. We found that cell survival curves could be very usefully described by a linear quadratic dose relationship and very soon came to the somewhat premature but as it turned out most effective conclusion that the induction of DNA double strand breaks should be linear quadratic. In deciding that the DNA double strand break was the crucial and all important lesion we were able to associate the mathematical analysis with the biology of the cell and were able to relate known properties of the DNA molecule to known radiobiological effects. On the other hand we were restricted and brought from an abstract two hit lesion which could have any property one wished down to earth to a defined molecular structure of nanometer dimensions and well known functions and properties.

Biological Effects of Radiations Daniel Grosch, 2012-12-02 *Biological Effects of Radiation* Second Edition aims to present an organized survey of the various experiments wherein living materials have been exposed to ionizing and exciting types of radiations. However this book focuses on the effects of radiation on lower organisms as these have received less attention. It tells how small amount of energy can damage submicroscopic structure and ultimately alter the appearance and abilities of such organisms. Divided into five parts this book starts off with two introductory chapters in the first part. It explains the effects of radiation. Then other parts of the book focus on the impact of radiation from cellular to organ level. How the lower organisms response is then discussed. Lastly the book explains the interrelations between organisms in contaminated areas. Same with the first edition emphasis is given on the consequences of mutations as a whole chapter is devoted to this topic. Furthermore this book covers discoveries from experiments with cultured cells. This book is a good text reference for students and professionals. Also it can be of great help to scientists, researchers and specialists involved in the biological response to radiation.

Concepts in Radiation Cell Biology Gary Whitson, 2012-12-02 *Concepts in Radiation Cell Biology* summarizes current concepts related to the effects of radiation on cell biology with emphasis on the underlying macromolecular basis for cellular changes in irradiated cells. It explores the effects of non ionizing radiation such as ultraviolet and visible light, the use of laser light in cellular studies and the biological effects of ionizing radiation on cells. Results of ultraviolet studies implicating DNA as the main target macromolecule responsible for radiation injury such as division delays, lethality and delayed DNA replication are presented. Divided into eight chapters this volume begins with an overview of ultraviolet irradiation of DNA as well as the

physical and biological properties of irradiated DNA It then discusses methods used in the photoinactivation of viruses the effects of ultraviolet radiation on bacteria radiation induced biochemical changes in protozoa and techniques for the analysis of radiation induced mitotic delay in synchronously dividing sea urchin eggs The book also covers the effects of radiation on mammalian cells the effects of ionizing radiation on higher plants and the photodynamic effects of laser light on cells This book is a valuable resource for cell biologists as well as students and investigators who are seeking the necessary information for further experimentation in radiation cell biology *Strahlenbiologie / Radiation Biology* ,2012-12-06 Die Strahlenbiologie hat sich von einem Forschungszweig mit dem sich noch vor wenigen Jahrzehnten nur die Strahlentherapeuten und vereinzelte Biologen beschäftigten zu einem Arbeitsgebiet entwickelt das die gesamte Medizin und weiteste Gebiete der Biologie interessieren muß Auf dem Gebiet der Radiologie wird die Radiobiologie von zwei verschiedenen Richtungen geordnet Einerseits hier ist der Ursprung dieser Wissenschaft zu suchen ergeben sich aus der klinischen Beobachtung Fragestellungen die man auf experimentellem Weg zu beantworten versucht Andererseits bearbeitet eine besondere Gruppe von Biologen die vornehmlich die ionisierende Strahlung als Instrument benutzt ihre Probleme Beide Gebiete haben enge Verbindung sollten sich gegenseitig fördern und können auch vereint sogar durch dieselbe Person ihre praktische Auswirkung erfahren Zuerst haben die Radiologen ihre mannigfaltigen Probleme selbst aufzuklären versucht Mit zunehmender Verbesserung und Verfeinerung der Methode hat sich im Rahmen der Radiologie die besondere Arbeitsrichtung der Radiobiologie ausgesondert die heute zum Teil eigene Wege geht Die Radiobiologie gewinnt für die Strahlentherapie immer mehr an Bedeutung so daß man versucht ist die Hoffnung auszudrücken daß die Radiobiologie berufen sein wird die Radiotherapie aus der empirischen Sphäre in eine exakt fundierte zu führen In noch stärkerem Maße hat sich auf dem Gebiet der Radiodiagnostik die Situation gewandelt Ohne gründliche radiobiologische Kenntnisse kann die Anwendung ionisierender Strahlen für Untersuchungszwecke heute nicht mehr verantwortet werden Die Nuclearmedizin vereinigt auf radiobiologischem Gebiet die Forderungen die für Radiotherapie und Diagnostik aufgestellt wurden *Recent Trends in Radiation Chemistry* James F. Wishart,2010 This volume is a review of the trends in the field of radiation chemistry research It covers a broad spectrum of topics ranging from the historical perspective instrumentation of accelerators in the nanosecond to femtosecond region through the use of radiation chemical methods in the study of antioxidants and nanomaterials radiation induced DNA damage by ionizing radiation involving both direct and indirect effects to ultrafast events in free electron transfer radiation induced processes at solid liquid interfaces and the recent work on infrared spectroscopy and radiation chemistry The book is unique in that it covers a wide spectrum of topics that will be of great interest to beginners as well as experts Recent data on ultrafast phenomena from the recently established world class laser driven accelerators facilities in the US France and Japan are reviewed *Understanding Radiation Biology* Kenneth Chadwick,2019-11-15 This book provides a qualitative and quantitative exploration of the action of radiation on living matter

which leads to a complete and coherent interpretation of radiation biology It takes readers from radiation induced molecular damage in the nucleus of the cell and links this damage to cellular effects such as cell killing chromosome aberrations and mutations before exploring organ damage organism lethality and cancer induction It also deals with radiological protection concepts and the difficulties of predicting the dose effect relationship for low dose and dose rate radiation risk The book ends with separate chapters dealing with the effects of UV light exposure and risk classification of chemical mutagens both of which are derived by logical extensions of the radiation model This book will provide the basic foundations of radiation biology for undergraduate and graduate students in medical physics biomedical engineering radiological protection medicine radiology and radiography Features Presents a comprehensive insight into radiation action on living matter Contains important implications for radiological protection and regulations Provides analytical methods for applications in radiotherapy

Radiation Biophysics Edward L. Alpen, 1997-10-22 This newly revised and updated edition of Radiation Biophysics provides an in depth description of the physics and chemistry of radiation and its effects on biological systems Coverage begins with fundamental concepts of the physics of radiation and radioactivity then progresses through the chemistry and biology of the interaction of radiation with living systems The Second Edition of this highly praised text includes major revisions which reflect the rapid advances in the field New material covers recent developments in the fields of carcinogenesis DNA repair molecular genetics and the molecular biology of oncogenes and tumor suppressor genes The book also includes extensive discussion of the practical impact of radiation on everyday life Covers the fundamentals of radiation physics in a manner that is understandable to students and professionals with a limited physics background Includes problem sets and exercises to aid both teachers and students Discusses radioactivity internally deposited radionuclides and dosimetry Analyzes the risks for occupational and non occupational workers exposed to radiation sources

Advances in Radiation Biology John T. Lett, Howard Adler, 2013-10-22 Advances in Radiation Biology Volume 9 provides an overview of the state of knowledge in radiation biology The book contains nine chapters and begins with a study on the ways in which physical and chemical agents might trigger regulatory dysfunction and how these agents might interact with each other This is followed by separate chapters on the mechanisms underlying changes in vascular function after doses of radiation in the therapeutic range and their role in the development of late effects in normal tissues the future of hypoxic cell sensitizers in the clinical setting DNA strand break formation by ionizing radiation and major pathways which result in radiation induced loss of cellular proliferative capacity Subsequent chapters deal with the solid state radiation chemistry of DNA radiosensitivity of proliferating mammalian cells the use of microwave radiofrequency energy cancer treatment and the decline of basic radiobiology

Physical and Chemical Mechanisms in Molecular Radiation Biology William A. Glass, Matesh N. Varma, 2012-12-06 The fundamental understanding of the production of biological effects by ionizing radiation may well be one of the most important scientific objectives of mankind such understanding could lead to the effective and safe utilization

of the nuclear energy option In addition this knowledge will be of immense value in such diverse fields as radiation therapy and diagnosis and in the space program To achieve the above stated objective the U S Department of Energy DOE and its predecessors embarked upon a fundamental interdisciplinary research program some 35 years ago A critical component of this program is the Radiological and Chemical Physics Program RCPP When the RCPP was established there was very little basic knowledge in the fields of physics chemistry and biology that could be directly applied to understanding the effects of radiation on biological systems Progress of the RCPP program in its first 15 years was documented in the proceedings of a conference held at Airlie Virginia in 1972 At this conference it was clear that considerable progress had been made in research on the physical and chemical processes in well characterized systems that could be used to understand biological effects During this period of time most physical knowledge was obtained for the gas phase because the technology and instrumentation had not progressed to the point that measurements could be made in liquids more characteristic of biological materials

Principles and Methods of Toxicology, Fifth Edition A. Wallace Hayes, 2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text *Principles and Methods of Toxicology* provides comprehensive coverage in a manageable and accessible format New topics include toxicokinetics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful *Principles and Methods of Toxicology Fifth Edition* continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology

Technical Books & Monographs United States. Energy Research and Development Administration, 1974 **Nuclear Science Abstracts** ,1974 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1965 **Ionizing Radiation and Life** Victor Arena, 1971 For graduate and undergraduate biology students **The Effects of Radiation and Radioisotopes on the Life Processes** Charles M.

Pierce, U.S. Atomic Energy Commission, 1963 **Technical Books & Monographs Sponsored by the U.S. Atomic Energy Commission** U.S. Atomic Energy Commission, **Technical Books and Monographs** United States. Energy Research and Development Administration, 1976 *Technical Books and Monographs Sponsored by the U.S. Atomic Energy Commission* U.S. Atomic Energy Commission, 1976 **The Effects of Low Dose Radiation** Elena Burlakova, Valeria Naiditch, 2004-08-31 The papers collected in this book show the results of investigations performed by Russian scientists in the field of low dose irradiation action It is confirmed that low doses do have effects on the human organism and the environment and that the most serious consequences are observed in the far post irradiation period This branch of radiobiology which developed after the Chernobyl accident and studied its consequences is discussed in detail The main part of reviews and articles is devoted to the aspects of low dose effects on the human and animal genome and far post irradiation consequences New details of mechanisms of low dose action are shown and methods of their determination are discussed Furthermore the adaptive response of organisms and the low dose effects on the immune system are demonstrated Also the difference between protection mechanisms against low dose irradiation and against high dose irradiation is shown and proved **Hearings** United States. Congress. Senate. Committee on Appropriations, 1952

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