

MOLECULAR MECHANISMS OF OXYGEN ACTIVATION

EDITED BY

OSAMU HAYAISHI

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Molecular Mechanisms Of Oxygen Activation Molecular Biology Ser

Robert Hanzlik



Molecular Mechanisms Of Oxygen Activation Molecular Biology Ser:

Molecular Mechanisms Of Oxygen Activation Osamu Hayaishi, 2012-12-02 Molecular Mechanisms of Oxygen Activation reviews some of the major advances that have been made in our understanding of the molecular mechanisms underlying oxygen activation with emphasis on the role of oxygen activation in contemporary biological processes The biological role of oxygenases in the metabolism of fatty acids and steroids is discussed along with the functions of heme containing dioxygenases a ketoglutarate coupled dioxygenases and pterin requiring aromatic amino acid hydroxylases This book is comprised of 14 chapters and begins with an overview of the general properties and biological functions of oxygenases along with the chemical aspects of oxygen fixation reactions The reader is then introduced to research concerning fatty acid and steroid oxygenases which has appeared in the literature since 1962 paying particular attention to the mechanism of oxygenation and the biosynthesis and metabolism of steroids Subsequent chapters explore the biological functions of a variety of oxygenases such as heme containing dioxygenases copper containing oxygenases flavoprotein oxygenases and pterin requiring aromatic amino acid hydroxylases Superoxide dismutase cytochrome c oxidase peroxidase and bacterial monooxygenases are also considered This monograph should serve as a valuable reference for biochemists as well as undergraduate and graduate students of biochemistry

Advances in Microbial Ecology M. Alexander, 2013-11-11 We are most gratified by the response to the initiation of this series of volumes presenting recent developments and new concepts in microbial ecology Favorable reactions have been expressed in both oral and written communication and Advances in Microbial Ecology thus seems to be providing a worthwhile outlet in a rapidly growing field of microbiology and environmental sciences The growing importance of microbial ecology is evident in many ways University personnel are expanding their programs and increasing the number of research topics and publications Substantial numbers of industrial scientists have likewise entered this field as they consider the microbial transformation of chemicals in waters and soils and the effects of synthetic compounds on natural microbial communities Agricultural medical dental and veterinary practitioners and scientists have also been increasing their activity in microbial ecology because of the importance of the discipline to their own professions In addition governmental agencies have expanded regulatory and research activities concerned with microbial ecology owing to the importance of information and regulations focused on the interactions between microorganisms in nature and particular environmental stresses

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Active Oxygen in Biochemistry Valentine Angelou, 2013-03-09 The field of Oxygen Activation has attracted considerable interest recently not only because it presents challenges in those fields of basic research that aim to understand the fundamental aspects of chemical and biological reactions that involve dioxygen but also because of its wide range of practical implications in such diverse fields as medicine synthesis of pharmaceuticals and other organic compounds materials

science and atmospheric science This is the second of two volumes that focus on the subject of oxygen activation the first slanted toward chemistry and the second toward biological chemistry We planned these volumes to be more general than many monographs of this sort not as detailed summaries of the authors own research but rather as general overviews of the field Our choice of topics was strongly influenced by our syllabus for a course entitled Oxygen Chemistry which two of us have twice taught jointly at UCLA Definition of important issues horizons and future prospects was an important goal and although totally comprehensive coverage was not possible we believe that we have chosen a representative selection of research topics current to the field We have targeted this work to a diverse audience ranging from professionals in fields from physics to medicine to beginning graduate students who are interested in rapidly acquiring the basics of this field

Catalytic Activation of Dioxygen by Metal Complexes László I. Simándi, 1992-07-31 The activation of dioxygen by metal ions has both synthetic potential and biological relevance Dioxygen is the cleanest oxidant for use in emission free technologies to minimize pollution of the environment The book gives a survey of those catalyst systems based on metal complexes which have been discovered and studied in the last decade They activate molecular oxygen and effect the oxidation of various organic compounds under mild conditions Much of the recent progress is due to a search for biomimetic catalysts that would duplicate the action of metalloenzymes Mechanistic aspects are emphasized throughout the book An introductory chapter reviews the chemistry of transition metal dioxygen complexes which are usually the active intermediates in the catalytic reactions discussed Separate chapters are devoted to oxidation of saturated unsaturated and aromatic hydrocarbons phenols catechols oxo compounds phosphorus sulfur and nitrogen compounds **Biology Bulletin**

of the Academy of Sciences of the USSR. Akademiia nauk SSSR., 1988 *Biotransformation of Organic Nitrogen Compounds* A. K. Cho, B. Lindeke, 1988-02-12 **Free Radicals in Biology V1** William Pryor, 2012-12-02 Free Radicals in Biology Volume 1 provides an introduction to some of the basic concepts of free radical biology The book emerged from the President's Symposium of the American Society for Experimental Pathology held in Atlantic City in April 1970 The book's opening chapter introduces a mechanistic view of free radical reactions using examples from biological systems This is followed by a discussion of autooxidative damage to lipids in membranes Some of the special chemistry of lipid oxidation are presented and a number of novel ideas are suggested The third chapter deals with the uses of electron spin resonance in biology Spin labeling is also discussed which is one of the most useful methods of probing the chemical and physical environment of molecules in cells The remaining chapters cover free radicals which occur in photosynthesis and the importance of the enzyme superoxide dismutase The study of the occurrence and reactions of this enzyme provides an important and extensive body of data clearly pointing to the significance of free radicals in cellular chemistry

Photosynthesis II M. Gibbs, E. Latzko, 2012-12-06 M GIBBS and E LATZKO In the preface to his Experiments upon Vegetables INGEN Housz wrote in 1779 The discovery of Dr PRIESTLEY that plants have a power of correcting bad air shows

that the air spoiled and rendered noxious to animals by their breathing in it serves to plants as a kind of nourishment INGEN Housz then described his own experiments in which he established that plants absorb this nourishment more actively in brighter sunlight By the turn of the eighteenth century the nourishment was recognized to be CO₂ Photosynthetic CO₂ assimilation the 2 major subject of this encyclopedia volume had been discovered How plants assimilate the CO₂ was a question several successive generations 2 of investigators were unable to answer scientific endeavor is not a discipline in which it is easy to put the cart before the horse The horse in this case was the acquisition of radioactive isotopes of carbon especially ¹⁴C The cart which followed contained the Calvin cycle formulated by CALVIN BENSON and BASSHAM in the early 1950 s after a their detection of glycerate 3 P as the first stable product of CO₂ fixation b their discovery and that by HORECKER 2 and RACKER of the CO₂ fixing enzyme RuBP carboxylase and c the reports by GIBBS and by ARNON of an enzyme NADP linked GAP dehydrogenase capable of using the reducing power made available from sunlight via photosynthetic electron transport to reduce the glycerate 3 P to the level of sugars

Inorganic Aspects of Biological and Organic Chemistry Robert Hanzlik, 2012-12-02 Inorganic Aspects of Biological and Organic Chemistry investigates the inorganic aspects of biological and organic chemistry Topics include the inorganic chemistry of group Ia and IIa metals complexes of Ia and IIa cations in organic and biological chemistry atomic structure and structure activity correlations and bonding in ligands and metal complexes Ligand exchange reactions and factors in complex stability are also discussed Comprised of 12 chapters this book begins with an overview of some of the important roles of metals in biological and organic chemistry followed by an analysis of the inorganic chemistry of group Ia and IIa metals Complexes of Ia and IIa cations in organic and biological chemistry are then described together with atomic structure and structure activity correlations Subsequent chapters deal with bonding in ligands and metal complexes ligand exchange reactions and factors in complex stability redox potentials and processes and the influence of metal ions on equilibria The book also considers catalysis by metal ions metal complexes and metalloenzymes before concluding with a chapter that examines the reactions of ligands in organometallic complexes This monograph is written for teachers students and practitioners of organic biological and inorganic chemistry

Environmental Chemistry of Herbicides Raj Grover, Allan Cessna, 1990-11-21 This publication is rare among those texts on pesticides in that it covers herbicides exclusively It presents in one source information that is typically scattered This important publication enables the reader to recommend herbicide use more reliably and efficiently It also highlights environmental issues relevant to herbicide use in agriculture The book outlines potential areas of further research This title is of particular value to weed scientists environmental chemists and engineers soil scientists and those responsible for recommending and or regulating use of herbicides in agriculture Focuses On Increasing efficiency of herbicides in agriculture Decreasing environmental contamination with herbicides Dissipation and transformations in water and sediment Nature transport and fate of airborne residues Absorption and transport in plants Transformations in biosphere

Bioaccumulation and food chain accumulation Photochemical transformations Bound residues Predictability and environmental chemistry Cumulated Index Medicus ,1976 **Organotransition-Metal Chemistry** Yoshio Ishii,2012-12-06 Synthesis of Organotransition Metals Metallocarboranes Past Present and Future Novel Rhodium and Palladium Complexes with Benzoyl and Thiobenzoyl Isocyanates as Ligands Polycyanovinyl Transition Metal Derivatives A New Preparation of Organocopper I Isonitrile Complexes and Their Reactions An Unusual Behavior of Vinyl Alcohol Complexes of Transition Metals The Mode of Formation of Transition Metal to Carbon Bonds by Oxidative Addition Organoactinides Coordination Patterns and Chemical Reactivity Recent Developments in Chemistry of Organolanthanides and Organoactinides C *Advances in Catalysis* ,1976-07-06 *Advances in Catalysis* **Books in Print Supplement** ,1978 Books in Print ,1977 *Scientific and Technical Books and Serials in Print* ,1989 **Lipids: Structure and Function** ,2014-05-19 *Lipids Structure and Function* *Copper Proteins and Copper Enzymes* Rene Lontie,2018-01-31 These volumes of Copper Proteins and Copper Enzymes are intended to describe the contemporary spectroscopy and other biophysical chemistry now being applied to copper proteins in order to determine the structures of their active sites Several chapters of the treatise describe the functional understanding which is emerging from the new work The authors are all major contributors to research progress on copper proteins and the volumes will be found to be definitive and authoritative Electron Transfer and Radical Processes in Transition-metal Chemistry Didier Astruc,1995

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