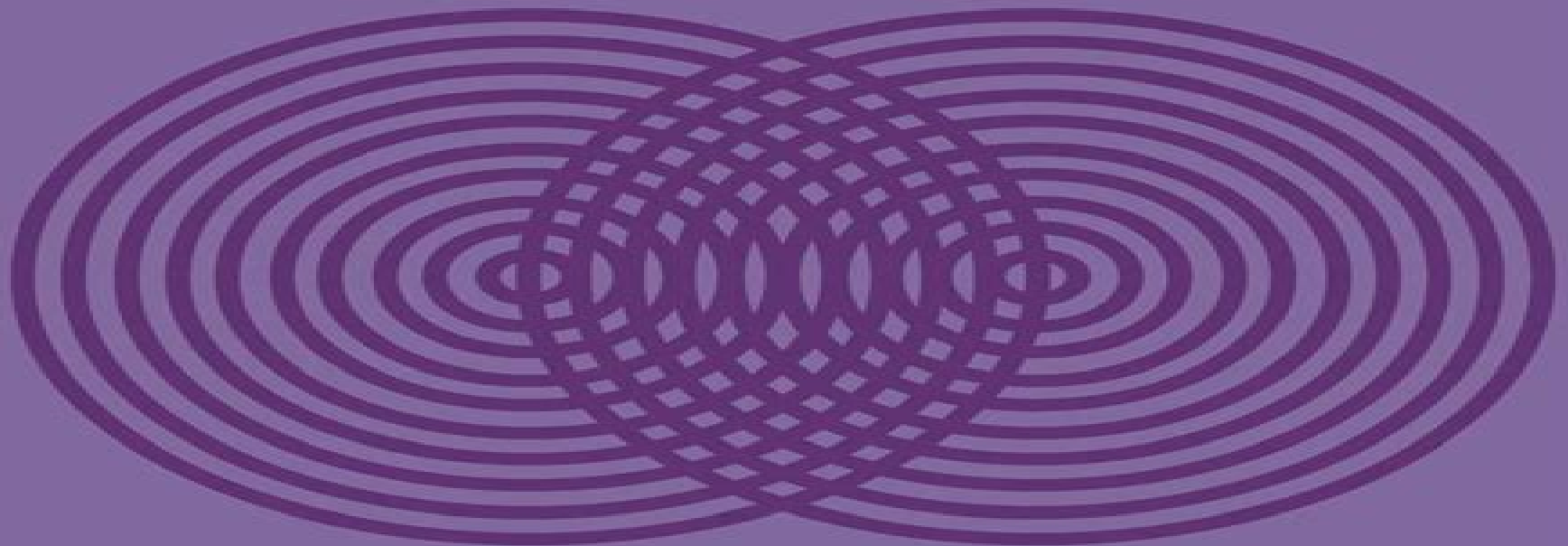


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Photosynthesis: physical mechanisms and chemical patterns

Roderick K. Clayton



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C. Buschmann, K. Grumbach



Photosynthesis Physical Mechanisms And Chemical Patterns:

Photosynthesis Roderick K. Clayton, 1980 Life on earth depends on the photosynthetic use of solar energy by plants and efforts to develop alternative sources of energy include a major thrust toward the use of photosynthesis to yield fuels The study of photosynthesis is an especially convincing way of bringing together the disciplines of physics chemistry and biology and can be a valuable element in the teaching of biophysics and biochemistry This book provides the only detailed modern treatment of the subject in a concise form Part I outlines the historical development of the subject emphasizing the chemical nature of photosynthesis and the roles of chlorophylls and other pigments Part II reviews our present knowledge of the structure and components of photosynthetic tissues in relation to their function Part III deals with the photo chemistry of photosynthesis and with the patterns of chemical events principally electron and proton transfer that follow the photo chemistry Part IV treats the relationships of electron and proton transport to ATP formation and the metabolic patterns of carbon assimilation An epilogue exposes major areas of confusion and ignorance and indicates potentially fruitful directions of research including the development of photosynthetic systems for solar energy conversion Throughout the book there are frequent digressions into those aspects of optics and molecular physics relevant to the subject matter Suitable for upper undergraduate and graduate course use this book is also sufficiently detailed to give professional scientists a perspective of the subject at the level of contemporary research Physikalische Biochemie Theodor Ackermann, 2013-03-08 Im Rahmen des Studienganges Biochemie bildet das Fachgebiet Biophysikalische Chemie die Grundlage f r das Verst ndnis des Zusammenwirkens molekularer Strukturen in physiologischen Prozessen Dieses Lehrbuch behandelt in konsequenter Darstellung die f r das Verst ndnis der Struktur Funktionsbeziehungen von Biomolek len wichtigen Themen Dabei wird die Erl uterung von Verfahren auf ein unerl iches Minimum und auf Literaturhinweise beschr nkt um die Diskussion der wissenschaftlichen Fragestellungen nicht mit methodischen Er rterungen zu belasten Das Buch schlie t eine L cke zwischen den auf Teilgebiete der physikalischen Chemie konzentrierten Kurztexten und den umfangreichen biophysikalischen Monographiensammlungen Es eignet sich damit besonders f r Studierende der Naturwissenschaften in mittleren und h heren Semestern Kenntnisse der physikalischen Biochemie sind auch f r wissenschaftlich t tige Biologen Mediziner Land und Forstwirte sowie Pharmazeuten wichtig *Biophysik* W. Hoppe, W. Lohmann, H. Markl, H. Ziegler, 2013-03-12 Mit Beitr gen zahlreicher Fachwissenschaftler **Physiologie der Photosynthese** C. Buschmann, K. Grumbach, 2013-03-07 Cell Physiology Source Book Nicholas Sperelakis, 2011-11-29 Cell Physiology Source Book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive

coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

Discoveries in Photosynthesis Govindjee, J.T. Beatty, H. Gest, J.F. Allen, 2006-07-15 Life Is Bottled Sunshine Wynwood
Reade Martyrdom of Man 1924 This inspired phrase is a four word summary of the significance of photosynthesis for life on earth The study of photosynthesis has attracted the attention of a legion of biologists biochemists chemists and physicists for over 200 years Discoveries in Photosynthesis presents a sweeping overview of the history of photosynthesis investigations and detailed accounts of research progress in all aspects of the most complex bioenergetic process in living organisms Conceived of as a way of summarizing the history of research advances in photosynthesis as of millennium 2000 the book evolved into a majestic and encyclopedic saga involving all of the basic sciences The book contains 111 papers authored by 132 scientists from 19 countries It includes overviews timelines tributes minireviews on excitation energy transfer reaction centers oxygen evolution light harvesting and pigment protein complexes electron transport and ATP synthesis techniques and applications biogenesis and membrane architecture reductive and assimilatory processes transport regulation and adaptation Genetics and Evolution laboratories and national perspectives and retrospectives that end in a list of photosynthesis symposia books and conferences Informal and formal photographs of scientists make it a wonderful book to have This book is meant not only for the researchers and graduate students but also for advanced undergraduates in Plant Biology Microbiology Cell Biology Biochemistry Biophysics and History of Science Molecular Biology of the Cell Bruce Alberts, Dennis Bray, John Howard Wilson (biochemist), Hunt, Julian Lewis, Martin Raff, Keith Roberts, James D. Watson, 1989-01-01 New edition of a text in which six researchers from leading institutions discuss what is known and what is yet to be understood in the field of cell biology The material on molecular genetics has been revised and expanded so that it can be used as a stand alone text A new chapter covers pathogens infection and innate immunity Topics include introduction to the cell basic genetic mechanisms methods internal organization of the cell and cells in their social context The book contains color illustrations and charts and the included CD ROM contains dozens of video clips animations molecular structures and high resolution micrographs Annotation copyrighted by Book News Inc Portland OR **Solar Energy Update** ,1983-12 Lexikon der Biologie in acht Bänden ,1987 **Wissenschaft, Verantwortung, Frieden** Engelbert Broda, 1985 Elektron-Kern-Mehrfachresonanz an Primärprodukten der Photosynthese Friedhelm Lenzian, 1982 Berichte der Deutschen Botanischen Gesellschaft Deutsche Botanische Gesellschaft, 1985 Each vol includes Bericht ber die General Versammlung separately paged vols 3 10 17 include Bericht der Kommission f r die Flora von Deutschland ber neue Beobachtungen aus den Jahren 1884 **Mendeleev Chemistry Journal** ,1986 *Microbial Lipids* Colin Ratledge, S. G. Wilkinson, 1988 Fundamental knowledge of microbial lipids has advanced greatly during the last twenty years and the microbiological and biochemical communities have long awaited a comprehensive source of reference Microbial Lipids Volume 2 is the second part of a two volume work which will be the standard reference text for the next

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