



Reflections on Biochemistry

In Honour of Severo Ochoa

Edited by A. Kamenberg, B.L. Horecker, L. Cornsella & J. Oro

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Reflections On Biochemistry In Honour Of Severo Ochoa

Basil Achilladelis, Mary Ellen Bowden



Reflections On Biochemistry In Honour Of Severo Ochoa:

Reflections on Biochemistry A. Kornberg, B. L. Horecker, L. Cornudella, 2014-05-18 Reflections on Biochemistry In Honour of Severo Ochoa offers reflections on a wide range of topics relating to biochemistry including energy metabolism lipids and saccharides regulation nucleic acids and the genetic code protein biosynthesis and cell biology The essays celebrate Severo Ochoa's outstanding contributions to biochemistry spanning nearly half a century This book is comprised of 47 chapters and begins with a biography of Ochoa and his scientific work in the field of biochemistry particularly his research on intermediary metabolism RNA synthesis and the genetic code The discussion then turns to energy metabolism photosynthesis and fermentation touching on topics such as the role of lactic acid in the development of biochemistry and the biosynthesis of cell components from acetate The next section is devoted to lipids saccharides and cell walls and includes chapters that deal with biotin sulfur biochemistry and dipicolinic acid Subsequent chapters explore hormonal regulation of adipose tissue lipolysis the structural relationship between genes and enzymes bacteriophages colicins and ribosomes and cell biology and neurobiology This monograph will be of interest to biochemists and students of biochemistry *Reflections on biochemistry* Arthur Kornberg, 1976 *Reflections on Biochemistry* Severo Ochoa, Universitat Autònoma de

Barcelona, Universidad Autónoma de Madrid, 1976 *Reflections on Biochemistry* Arthur Kornberg, Severo Ochoa, Universidad Autónoma de Barcelona, Universidad Autónoma de Madrid, University of Houston, 1976 *Proceedings, American Philosophical Society (vol. 141, No. 4, 1997)* , **Single-stranded RNA phages** Paul Pumpens, 2020-02-03 This is a comprehensive guide to single stranded RNA phages family Leviviridae first discovered in 1961 These phages played a unique role in early studies of molecular biology the genetic code translation replication suppression of mutations Special attention is devoted to modern applications of the RNA phages and their products in nanotechnology vaccinology gene discovery evolutionary and environmental studies Included is an overview of the generation of novel vaccines gene therapy vectors drug delivery and diagnostic tools exploring the role of RNA phage derived products in the revolutionary progress of the protein tethering and bioimaging protocols Key Features Presents the first full guide to single stranded RNA phages Reviews the history of molecular biology summarizing the role RNA phages in the development of the life sciences Demonstrates how RNA phage derived products have resulted in nanotechnological applications Presents an up to date account of the role played by RNA phages in evolutionary and environmental studies **The Roots of Modern**

Biochemistry Horst Kleinkauf, Hans von Döhren, Lothar Jaenicke, 2011-07-13 The Roots of Modern Biochemistry ist eine gute Einführung in die moderne Biochemie und als Einstieg sehr zu empfehlen Prof Dr Hans Fritz Ludwig Maximilians Universität München **Emperor Of Enzymes: A Biography Of Arthur Kornberg, Biochemist And Nobel Laureate** Errol C Friedberg, 2016-05-18 This book chronicles the life and work of the late Arthur Kornberg one of the premier biochemists in the world who discovered the enzyme DNA polymerase a key enzyme required for the biosynthesis of DNA The book provides

readers with a view of the personality and character of one of the great biochemists of the late 20th century as well as insights into the origin and growth of the discipline of nucleic acid biochemistry especially the biosynthesis of DNA The book consists of 17 chapters that trace the life and work of Arthur Kornberg *Biochemistry Collections* Bernard S. Schlessinger,2019-12-05 This book first published in 1982 offers an examination of the special nature of biochemistry collections It focuses on the production control and use of the literature diverse in nature and analysed here by specialist contributors **Biochemistry Collections, a Cross-disciplinary Survey of the Literature** Bernard S. Schlessinger,1982

Selected Topics in the History of Biochemistry. Personal Recollections. Part III G. Semenza,R. Jaenicke,2012-12-02 As in Volumes 35 and 36 the chapters in this new volume complement with personal recollections the History of Biochemistry that was covered in the Comprehensive Biochemistry Series Volumes 30-33 by M Florkin and Volume 34A by P Laszlo The biographical and autobiographical chapters will convey to the reader a lively albeit at times subjective view of the scientific and social environment in which the authors have worked resulting in new concepts and theories on the biological sciences

Designs for Life Soraya de Chadarevian,2002-05-30 An important study on the making of molecular biology and its cultural contexts *Nobel Laureates in Medicine or Physiology* Daniel M. Fox,Marcia Meldrum,Ira Rezak,2019-01-15 Originally published in 1990 Nobel Laureates in Medicine or Physiology is a biographical reference work about the recipients of Nobel Prizes in Medicine or Physiology from 1901-1989 Each article is written by an accomplished historian of medicine or science The book is designed to be accessible to students and general readers as well as to specialists in medical science and history Each article combines personal and scientific biography and each has an extensive bibliography to guide further reading and research **The Life of a Virus** Angela N. H. Creager,2002 We normally think of viruses in terms of the devastating diseases they cause from smallpox to AIDS But in *The Life of a Virus* Angela N H Creager introduces us to a plant virus that has taught us much of what we know about all viruses including the lethal ones and that also played a crucial role in the development of molecular biology Focusing on the tobacco mosaic virus TMV research conducted in Nobel laureate Wendell Stanley's lab Creager argues that TMV served as a model system for virology and molecular biology much as the fruit fly and laboratory mouse have for genetics and cancer research She examines how the experimental techniques and instruments Stanley and his colleagues developed for studying TMV were generalized not just to other labs working on TMV but also to research on other diseases such as poliomyelitis and influenza and to studies of genes and cell organelles The great success of research on TMV also helped justify increased spending on biomedical research in the postwar years partly through the National Foundation for Infantile Paralysis's March of Dimes a funding priority that has continued to this day [A History of the Life Sciences, Revised and Expanded](#) Lois N. Magner,2002-08-13 A clear and concise survey of the major themes and theories embedded in the history of life science this book covers the development and significance of scientific methodologies the relationship between science and society and the diverse ideologies and current paradigms affecting the evolution and

progression of biological studies The author discusses cell theory embryology physiology microbiology evolution genetics and molecular biology the Human Genome Project and genomics and proteomics Covering the philosophies of ancient civilizations to modern advances in genomics and molecular biology the book is a unique and comprehensive resource

Structures of Life Basil Achilladelis, Mary Ellen Bowden, 1989 A companion book to the CHF travelling exhibit by the same name Describing first the instruments and then the molecules it shows how instrumentation has helped chemistry and biology merge in the science of molecular biology **Current Catalog** National Library of Medicine (U.S.), First multi year

cumulation covers six years 1965 70 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1978 *The Pentose Phosphate Pathway* Terry Wood, 2012-12-02 The Pentose Phosphate Pathway aims to explore the pentose phosphate cycle and the practical techniques applied in its investigation The main focus of the book is the pentose phosphate cycle in animals as well as microorganisms and does not discuss the one related to photosynthesis The book covers the formulation of the pathway its types and its alternative formulations the preparation processes and analysis of the pathway and the enzymes involved Also covered in the book are the intermediates in intact cells and tissues distribution of enzymes among different tissues and species the operation regulation and overall control of the pathway and the clinical nutritional and metabolic aspects of the pathway The text is recommended for biologists and biochemists who would like to understand further the pentose phosphate pathway and the processes related to it American Scientists Charles W. Carey, 2014-05-14 Profiles more than 200 American men and women who made significant contributions to science during the twentieth century

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