



Protein Electron Transfer

Ekaterina Vadimovna Pletneva



Protein Electron Transfer:

Protein Electron Transfer Dr Derek Bendall, 2020-07-24 This book is unique the factual content and ideas it expounds are only just beginning to be touched upon in standard texts Protein Electron Transfer is a major collaborative effort by leading experts and explores the molecular basis of the rapidly expanding field of protein-protein recognition and electron transfer Ekaterina Vadimovna Pletneva, 2001 Electron transfer ET between redox proteins plays an important role in many biological processes The first stage in the interprotein ET involves specific recognition and binding of protein molecules We are studying several diprotein systems to better understand the rules of protein-protein recognition and conformational interconversion that might control the ET process To explore interactions between azurin and cytochrome c we investigated the effects of ionic strength on the kinetics of photoinduced ET reactions of the triplet state of zinc substituted cytochrome c 3Zncyt with the wild type and the following mutants of azurin Met44Lys Met64Glu and the double mutant Met44Lys Met64Glu Mutations in the hydrophobic patch of azurin significantly affect the reactivity of the protein with 3Zncyt Both kinetic effects of mutation and analysis of dipolar interactions indicated the involvement of the hydrophobic patch of azurin in the reaction In the study of a new plastocyanin from fern we used cytochrome c to explore the surface of the new protein and to learn about its ET properties At low ionic strength at least three exponentials are needed to describe the quenching of 3Zncyt by fern cupriplastocyanin *Theoretical Studies of Iron-sulfur Electron Transfer Proteins* Elizabeth Astill Dolan, 2003

Biological Electron Transfer in Copper Proteins Cynthia N. Kiser, California Institute of Technology. Division of Biology, 1998 Nature has used a variety of protein systems to mediate electron transfer In this thesis I examine aspects of the control of biological electron transfer by two copper proteins that act as natural electron carriers *Protein-based Electron Transfer* Pavel B. Tsitovitch, 2005 **Introduction to a Biological Systems Science** Edward H. Bloch, United States. National Aeronautics and Space Administration, 1971 *Microbiology Abstracts*, 1992-10 **Biological Electron**

Transfer Chains: Genetics, Composition and Mode of Operation G.W. Canters, E. Vlijgenboom, 2012-12-06 From May 3-7 1997 the NATO Advanced Research Workshop on Biological Electron Transfer Chains was organized in Tomar Portugal In the application for support the choice of the topic was justified as follows Until recently efforts have concentrated on the study of the structure and function of individual redox enzymes and proteins Enough information is now available to make a start with the study of biological electron transfer E1 at the next higher level of organization that of the complete ET chain The interest in the workshop was high the majority of participants had registered before the workshop was formally announced which illustrates the popularity of the topic within the biochemical and biophysical communities The present volume contains a number of reports based on the lectures presented by the key speakers during the meeting The workshop dealt with the following three themes a Electron transfer which is the subject of Chapter 1 The analysis of ET at the molecular level is still fundamental for an understanding of how ET chains operate in vivo After 40 years of research the

contours of the subject are becoming clear now b Bacterial redox chains This is the subject of Chapter 2 Its contents show how complicated these chains can be often involving a number of gene clusters Our understanding of the regulatory aspects and control mechanisms of these chains is only in its beginning *Federation Proceedings* Federation of American Societies for Experimental Biology,1962 **Electron Transfer in Proteins** Ralf Langen,California Institute of Technology. Division of Chemistry and Chemical Engineering,1995 *Abstracts of Papers* ,1989 **Science** John Michels (Journalist),1914 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting *Excited States and Reactive Intermediates* Alfred Beverley Philip Lever,American Chemical Society. Division of Inorganic Chemistry,Chemical Institute of Canada. Inorganic Chemistry Division,1986 **Copper Proteins** Thomas G. Spiro,1981 *Heme Proteins* Gunther Louis Eichhorn,Luigi G. Marzilli,1988 **Proceedings of the Society for Experimental Biology and Medicine** Society for Experimental Biology and Medicine (New York, N.Y.),1903 List of members in each volume *Journal* American Chemical Society,2003 *Recent Advances in Biological Nitrogen Fixation* Nanjappa Shamanna Subba Rao,1980 **Electron Transfer Proteins** Denis Pompon,1995 *Mechanistic Principles of Enzyme Activity* Joel F. Liebman,Arthur Greenberg,1988

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