

Photoreception and Sensory Transduction in Aneural Organisms

Francesco Lenci and Giuliano Colombetti

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Giuliano Colombetti, Francesco Lenci



Photoreception And Sensory Transduction In Aneural Organisms:

Photoreception and Sensory Transduction in Aneural Organisms Francesco Lenci, 2013-03-09 This book collects all the lectures presented during the NATO Advanced Study Institute on Photoreception and Sensory Transduction in Aneural Organisms held in Villa Le Pianore Versilia Italy September 3-14 1979 In order to publish the lectures in the shortest possible time we had to make the decision not to include the free communications the informal seminars and the panel discussions notwithstanding their very high scientific level and interest Only the final panel discussion has been summarized by Prof W Haupt whose effort we gratefully acknowledge because it gives a comprehensive view of the state of the art in this field The ASI was intended to be a high level course characterized by an interdisciplinary approach to the problem of photoreception and photosensory physiology in aneural organisms bringing together scientists from different fields and specializations We hope that these characteristics are reflected in the content of the book which is meant to be both an advanced textbook for researchers and students entering the field and a critical overview of the problems of photosensory transduction in aneural organisms The topics presented range from a phenomenological description of the different photomotile responses in various microorganisms to a discussion of the molecular processes involved in the primary events of photo reception as well as in the subsequent steps of the transduction chain

Photoreception and Sensory Transduction in Aneural Organisms Francesco Lenci, 2014-01-15

Sensory Perception and Transduction in Aneural Organisms

Giuliano Colombetti, Francesco Lenci, Pill-Soon Song, 2012-12-06 This book is based on the lectures given at the NATO Advanced Study Institute on Sensory Perception and Transduction in Aneural Organisms held in Volterra Pisa Italy from the third to the fourteenth of September 1984 The Advanced Study Institute was planned as a high level course dealing with several aspects and problems of sensory perception and transduction of diverse environmental stimuli in aneural organisms Scientists from different fields and cultural backgrounds were present at the meeting both as lecturers and as students The lectures and the discussions that followed represented a well integrated interdisciplinary approach to the questions considered At the end of the Advanced Study Institute course it was quite clear that notwithstanding the apparent heterogeneity of the topics dealt with unifying concepts and ideas already existed among the most important being the role of membranes and their physicochemical properties All this should be reflected in the content of this book We gratefully acknowledge the financial sponsorship of the Scientific Affairs Division of NATO Brussels that made both the Advanced Study Institute on Sensory Perception and Transduction in Aneural Organisms and this book possible Finally we are also indebted to Ms Pat Parham Morgan who expertly retyped all the chapters of the book and Ms Leslie Schmidt of Plenum Publishing Co provided us valuable advice and suggestions on the preparation of this book G Colombetti F Lenci P S

Membranes and Sensory Transduction Giuliano Colombetti, Francesco Lenci, 2012-12-06 The main purpose of this book is to unify approaches and ideas in the field of aneural sensory transduction This field has recently come to the attention of several

research groups in various disciplines and their number seems to be growing Unfortunately because of the diverse scientific backgrounds of the researchers in the field the apparent heterogeneity of experimental techniques i e behavioral response analysis sophisticated biochemical and genetic manipulations conventional and pulsed laser spectroscopy and theoretical approaches may be discouraging for both the experienced worker and the new comer Actually this heterogeneity is more apparent than real and unifying concepts approaches and ideas already exist particularly with respect to all the questions concerning the role of membranes and their properties such as ion permeability electric potentials and active transport in the various steps of sensory perception and transduction processes It is currently accepted that most if not all the fundamental facts in molecular sensory physiology of aneural organisms be they chemosensory photosensory or geosensory can ultimately be understood in terms of a few basic ideas Each chapter of this book emphasizes and clarifies the role of membrane properties and phenomena in the particular sensory response examined Of course in some cases this task has been rather complex because of the limited amount of experimental data clearly supporting a membrane based model of sensory transduction

Sensory Perception and Transduction in Aneural Organisms Giuliano Colombetti, Francesco Lenci, Pill-Soon Song, 1985

Photoreception and Vision in Invertebrates M. A. Ali, 2013-03-09 I see a man's life is a tedious one Cymbeline Act III Sc 6 It is well known that the best way to learn a subject is to teach it Along the same lines one might also say that a pleasant way of learning a subject and at the same time getting to know quite a few of the workers active in it is to arrange and to attend an Advanced Study Institute ASI or a workshop lasting about two weeks This was and is the wisdom behind the NATO ASI programme and much as people fear that a fortnight may be too long before it is over everyone feels that it was too short especially if the weather had cooperated Organising this ASI which resulted in this volume has been a very good learning experience I started my career in research with invertebrates and retained an interest in them over the years due to my teaching a course and working sporadically on various aspects of photoreception in Polychaetes Crustaceans and Insects Thus the thought of organising an ASI on photoreception and vision in invertebrates had been brewing in my mind for the past half a dozen years or so It was felt that it will be desirable to do a bit of stock taking and discuss possible new approaches to the study of this matter

Biophysics of Photoreceptors and Photomovements in Microorganisms F. Lenci, Francesco Ghetti, Giuliano Colombetti, D.P. Häder, Pill-Soon Song, 2012-12-06 This volume contains the lectures given at the NATO Advanced Study Institute on Biophysics of Photoreceptors and Photomovements in Microorganisms held in Tirrenia Pisa Italy in September 1990 The Institute was sponsored and mainly funded by the Scientific Affairs Division of NATO the Physical Science Committee and the Institute of Biophysics of National Research Council of Italy also supported the School and substantially contributed to its success It is our pleasant duty to thank these institutions Scientists from very different backgrounds contributed to the understanding of this fast developing field of research which has seen considerable progress during the last years The areas of expertise ranged from behavioral

sciences supported by sophisticated techniques such as image analysis or laser light scattering to spectroscopy applied in different time domains to the study of the primary photoreactions to electrophysiology biochemistry or molecular biology with the aim of analyzing the various steps of the transduction chains and how they control the motor apparatus of the cells. The organisms studied covered a wide range from bacteria to algae fungi and other eukaryotes. Thus the ASI represented a successful opportunity for carrying on and implementing an interdisciplinary approach to the study of the biophysical basis of photoreception and photosensory transduction in asexual organisms with special attention to the basic phenomena and the underlying molecular events. We hope that this book has caught the spirit in which the ASI was conceived.

Photomovement D.-P. Häder, M. Lebert, 2001-06-19 This volume emphasizes the involvement of all facets of biology in the analysis of environmentally controlled movement responses. This includes biophysics biochemistry molecular biology and as an integral part of any approach to a closer understanding of physiology. The initial euphoria about molecular biology as the final solution for any problem has dwindled and the field agrees now that only the combined efforts of all facets of biology will at some day answer the question posed more than hundred years ago: How can plants see? One conclusion can be drawn from the current knowledge as summarized in this volume: The answer will most likely not be the same for all systems.

Plant Tropisms J.W. Hart, 1990-01-31 This text explores the means, processes and mechanisms by which plants change the orientation and juxtapositions of various organs in order to optimize their harvest of energy and examines the major stimuli which provoke such responses. These interactions are re-described for higher plants through to ferns, fungi and algae and the text constantly emphasizes the functional significance of particular growth movements to plants in their natural surroundings.

Blue Light Responses Horst Senger, 1987-04-30 **Physiology** Dennis E. Buetow, 2012-12-02 The Biology of Euglena Volume III Physiology covers areas of investigation on Euglena focusing in particular on its physiology. The book demonstrates the wide utilization and research on the members of the genus, especially *Euglena gracilis*. The book discusses in particular the essential features of organelle distribution and structure in *Euglena* and euglenoid surfaces. It presents circadian rhythms reported for *Euglena* as well as the organism's movement and locomotion. It also explains the various aspects of sensory responses of *Euglena gracilis* to photic, chemical and mechanical stimuli. In addition, the book addresses the stimulation and inhibition of the metabolism and growth of *Euglena gracilis*. Lastly, the *Euglena* chloroplast membrane, including its structure, function and photocontrol of its development, are described.

Blue Light Effects in Biological Systems H. Senger, 2012-12-06 Four years ago The Blue Light Syndrome was published as the Proceedings of the 1st International Conference on the Effect of Blue Light in Plants and Microorganisms. Subsequently, the interest in this fascinating and growing field of research has further increased, as is reflected by numerous publications. Blue light effects cover such a wide spectrum of organisms' responses and methods that communication among scientists with backgrounds in biology, biochemistry and biophysics is particularly necessary. These facts not only justified but demanded calling the Blue

Light Family together again In spite of many financial problems the second conference attracted 113 active members from 19 countries The 2nd International Conference on The Effect of Blue Light in Plants and Microorganisms was held in July 1984 like the first at the University of Marburg The organizer could again rely on the help of the International Advisory Committee W Briggs Stanford M Furuya Tokyo J Gressel Rehovot S Miyachi Tokyo W Rau München J Schiff Waltham P S Song Lubbock The very generous financial assistance from the DFG and the support of the Philipps Universität Marburg and its Sonderforschungsbereich Zellenergetik and Zelldifferenzierung were the prerequisites to organizing the conference The present book consists of 56 original papers The partitioning into eight chapters is always a problem The grouping of different aspects of the papers into these chapters has not always been obvious so that one or the other contribution could possibly fit in another chapter

Photoreception and Sensory Transduction in Aneural Organisms Francesco Lenci, 1980 Progress in Botany / Fortschritte der Botanik Karl Esser, Klaus Kubitzki, Michael Runge, Eberhard Schnepf, Hubert Ziegler, 2012-12-06

Light in Biology and Medicine Ron H. Douglas, Johan Moan, Dall'Acqua, 2012-12-06

Almost all life depends on light for its survival It is the ultimate basis for the food we eat photosynthesis and many organisms make use of it in basic sensory mechanisms for guiding their behaviour be it through the complex process of vision or by the relatively more simple photosensitivity of microorganisms furthermore light has profound implications for the field of medicine both as a cause of disease ie UV damage of DNA and as a therapeutic agent ie photodynamic therapy These and other processes are the basis for the science of photobiology which could be defined as the study of the effects of visible and ultraviolet light from both the sun and artificial sources on living matter By its very nature therefore it is a multidisciplinary science involving branches of biology chemistry physics and medicine This book contains a selection of papers which have been chosen to highlight recent advances in the various disciplines that make up photobiology Although no book on photobiology can hope to be comprehensive we hope that this volume includes a representative sample of much of what is new in the field It is however inevitable that some areas will be better represented than others reflecting the biases of conference organisers and editors

Light Sensing in Plants M. Wada, K. Shimazaki, M. Iino, 2007-03-20 Plants utilize light not only for photosynthesis but also as environmental signals They are capable of perceiving wavelength intensity direction duration and other attributes of light to perform appropriate physiological and developmental changes This volume presents overviews of and the latest findings in many of the interconnected aspects of plant photomorphogenesis including photoreceptors phytochromes cryptochromes and phototropins signal transduction photoperiodism and circadian rhythms in 42 chapters Also included is a prologue by Prof Masaki Furuya that gives an overview of the historical background With contributions from preeminent researchers in specific subjects from around the world this book will be a valuable source for a range of scientists from undergraduate to professional levels

Acta Botanica Academiae Scientiarum Hungaricae, 1983

Photomorphogenesis in plants R.E. Kendrick, G.H.M. Kronenberg, 2013-06-29 From Animals to Animats 4 Pattie

Maes, 1996 From Animals to Animats 4 brings together the latest research at the frontier of an exciting new approach to understanding intelligence

Light as an Energy Source and Information Carrier in Plant Physiology Robert C. Jennings, Giuseppe Zucchelli, Francesco Ghetti, Giuliano Colombetti, 2012-12-06 A NATO Advanced Study Institute on Light as Energy Source and Information Carrier in Plant Photo physiology was held at Volterra Italy from September 26 to October 6 1994 in order to consider the fundamental role that light plays in plant growth and development This book summarises the main lectures given at this meeting which concentrated on both photochemical energy conversion and signalling photosensing aspects Light harvesting and conversion into chemical energy in photosynthesis occurs at the level of chlorophyll carotenoid containing photosystems in plants Pigments are non covalently bound to a variety of polypeptides which serve as a specific scaffolding necessary to determine the energy coupling between pigments and thus allowing rapid excitation energy transfer from the antenna to the special reaction centre chlorophylls Data from transient time resolved spectroscopies in the femtosecond and picosecond domain together with model calculations suggest that this process occurs in the 20 100 picosecond time span The special structure of reaction centre complexes ensures rapid primary charge separation probably in the order of 1 3 picoseconds with subsequent charge stabilisation reactions proceeding in the hundreds of picoseconds range The recently resolved crystallographic structure of LHCII the principal antenna complex of plants allows precise determination of pigment pigment distances and thus permits calculation of approximate chlorophyll chlorophyll Forster hopping rates which are in good agreement with time resolved measurements

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