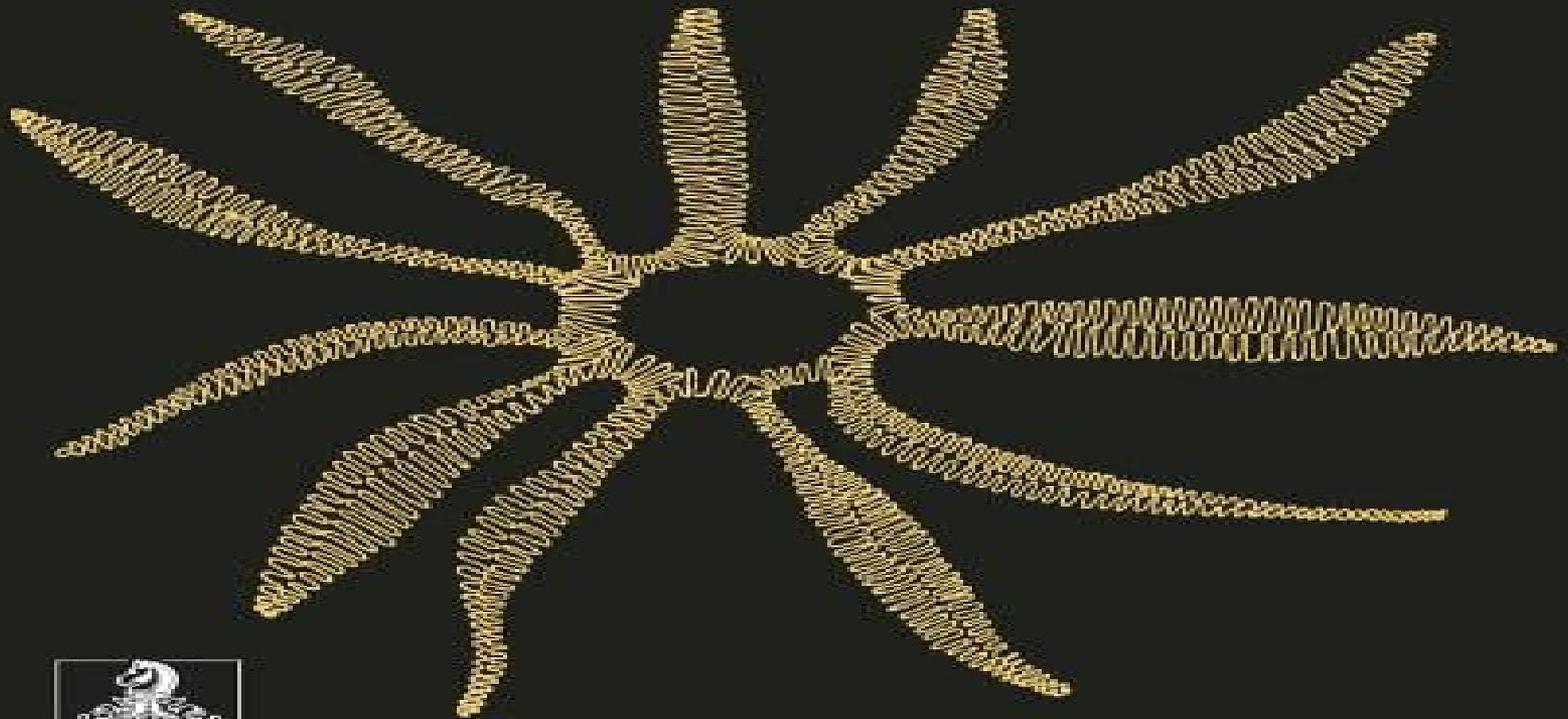


Photoreceptor Optics

Edited by A. W. Snyder and R. Menzel



Springer-Verlag Berlin Heidelberg New York

Photoreceptor Optics

Thomas G. Brown



Photoreceptor Optics:

Photoreceptor Optics A.W. Snyder, R. Menzel, 2012-12-06 The above consideration indicates that at present many of the experimental facts on PS in animals can be quantitatively explained within the limits of the universal photoreceptor membrane concept. Of course, existence of preferential orientation of the absorbing dipoles in the tubuli of the rhabdomeres can not be totally rejected. We hope that the concept of the universal photoreceptor membrane may serve as the useful instrument when dealing with newly discovered properties of visual cells so that true mechanisms of electrical and optical coupling will be searched for instead of assumptions being made on additional properties of the photoreceptor membrane in every new animal under study.

5 Absorption Spectrum of the Universal Photoreceptor Membrane and Spectral Sensitivity of the Photoreceptor

5.1 Preliminary Notes It seems nearly self-evident that the absorption spectrum of the photoreceptor membrane coincides exactly with that of the visual pigment it contains. Hence the membrane must exhibit three bands of absorption: the principal band with its peak within the limits of visible spectrum or a peak, the secondary band between 340 and 380 nm, and the third protein band in the ultraviolet UV at 280 nm.

COLLINS et al 1952 The main peak of absorption is located within the range 433-575 nm for retinol-based pigments and between 438 and 620 nm for 3-dehydroretinol-based pigments, the position of λ_{max} depending on many ecological factors.

Vertebrate Photoreceptor Optics J.M. Enoch, F.L. Jr. Tobey, 1981-09 With contributions by numerous experts Handbook of Optics, Third Edition Volume III: Vision and Vision Optics (set) Michael Bass, Casimer DeCusatis, Jay M. Enoch, Vasudevan

Lakshminarayanan, Guifang Li, Carolyn MacDonald, Virendra N. Mahajan, Eric Van Stryland, 2009-12-04 The most comprehensive and up-to-date optics resource available. Prepared under the auspices of the Optical Society of America, the five carefully architected and cross-referenced volumes of the Handbook of Optics, Third Edition contain everything a student, scientist, or engineer requires to actively work in the field. From the design of complex optical systems to world-class research and development methods, this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds. Individual chapters are written by the world's most renowned experts who explain, illustrate, and solve the entire field of optics. Each volume contains a complete chapter listing for the entire Handbook, extensive chapter glossaries, and a wealth of references. This pioneering work offers unprecedented coverage of optics data, techniques, and applications. Volume III, all in full color, covers vision and vision optics.

Facets of Vision Doekele G. Stavenga, Roger C.

Hardie, 2012-12-06 The papers published in this Volume are the fruits of a symposium held in Regensburg in April 1987. The meeting was held to commemorate two most significant events in the development of compound eye research. In chronological order, these are firstly Sigmund Exner's seminal monograph on the physiology of compound eyes of crustaceans and insects, which was first published in Vienna in 1891 and is now shortly to appear for the first time in the English translation Exner S 1989 *The Physiology of the Compound Eyes of Insects and Crustaceans* Springer Berlin Heidelberg New

York Tokyo Secondly the meeting was also held in honour of Professor Hansjochem Autrum s 80th birthday Professor Autrum who is justly acknowledged as one of the pioneers of modern compound eye research attended the meeting as the guest of honour In keeping with these historical occasions it has been our intention in this volume to present a comprehensive collection of short reviews covering the major aspects of compound eye research Whilst the most up to date developments have been included in every field from optics through photochemistry phototransduction integrative processes and behavior an attempt has also been made to provide a historical perspective [Handbook of Optics Third Edition, 5 Volume Set](#) Optical Society of America,2010-05-18 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world s most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume I covers geometrical and physical optics polarized light components and instruments Volume II covers design fabrications testing sources detectors radiometry and photometry Volume III all in full color covers vision and vision optics Volume IV covers optical properties of materials nonlinear optics and quantum optics Volume V covers atmospheric optics modulators fiber optics and x ray and neutron optics Visit [www HandbookofOpticsOnline com](http://www.HandbookofOpticsOnline.com) to search all five volumes and download a comprehensive index **Handbook of Optics, Volume III** Optical Society of America,2000-11-15 A new volume in the field s bestselling options reference an entirely new opus focusing on x ray nonlinear and vision optics Provides the same mix of tutorial writing with in depth reference material that distinguished Volumes I II **Journal of the Optical Society of America** Optical Society of America,1929 Separately paged supplements accompany a few issues [Journal of the Optical Society of America](#) ,2001 [Handbook of Optics](#) Optical Society of America,2000-10-27 A new volume in the field s bestselling optics reference an entirely new opus focusing exclusively on fiber optics Contains an ultra handy comprehensive index to all four Handbook of Optics volumes

Abstracts of the Papers to be Read at the Joint Meeting of the American Society of Zoologists and Section of the American Association for the Advancement of Science American Society of Zoologists,1930 *Handbook of Optics, Volume IV* Optical Society of America,2000-11-17 A new volume in the field s bestselling optics reference an entirely new opus focusing exclusively on fiber optics Contains an ultra handy comprehensive index to all four Handbook of Optics volumes **Journal of Morphology** Charles Otis Whitman,Edward Phelps Allis,John Sterling Kingsley,Clarence Erwin McClung,1926 **Journal of Morphology and Physiology** ,1926 **The Optics Encyclopedia, 5 Volume Set** Thomas

G. Brown, 2004 Written by internationally recognized experts the high quality of the articles provides dependable information on topics of current interest in industrial and academic research as well as background knowledge Covering both theoretical and applied optics each article has not only a list of references cited in the text but also a guide to further reading Each article also concludes with a glossary containing the technical terms necessary for the topic under consideration Throughout the subject matter is treated in a tutorial user friendly way rather than as a pure reference and is supplemented by references cited in the text and a listing of important reviews and books

Photoreception and Vision in Invertebrates

M. A. Ali, 1984-03-31 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

Optics Letters, 2004

Proceedings of the Royal Society of London Royal Society (Great Britain), 1982 Publishes refereed research papers in all aspects of the biological sciences As a fast track journal it specialises in the rapid delivery of the latest research to the scientific community

Biological Sciences Royal Society (Great Britain), 1976 Publishes refereed research papers in all aspects of the biological sciences As a fast track journal it specialises in the rapid delivery of the latest research to the scientific community

Philosophical Transactions of the Royal Society of London, 1995 Each issue of Transactions B is devoted to a specific area of the biological sciences including clinical science All papers are peer reviewed and edited to the highest standards Published on the 29th of each month Transactions B is essential reading for all biologists

Evolution of Receptor Cells I A Kov Abramovich Vinnikov, 1982

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