

Adaptive Mechanisms in The Ecology of Vision



S.H. Author, M.B.A. Dymally, E.R. Jones,
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Adaptive Mechanisms in the Ecology of Vision S. Archer, 1999-01-31 The field of the ecology of vision has grown considerably since John Lythgoe first wrote his original book on the subject in 1979 John Lythgoe was instrumental in founding the subject that has inspired vision researchers to relate the functioning of the visual system with the visual requirements demanded by the environment and behaviour of the animal in it This book represents a timely and much needed review of the wealth of research that has been carried out in the last twenty years It deals with theoretical and physical considerations of light and photoreception practical examples of visual system structure and function and aspects of visual behaviour and communication Importantly the book emphasises one of the main themes to have emerged from studies of the ecology of vision that the visual system is extremely adaptable when confronted with changing environmental and behavioural conditions Finally this updated review is a multi author collection of leading experts currently working in the field of visual ecology a requirement that reflects the high level of current research activity The book approaches the visual system from many different areas of biology including neurobiology sensory biology cellular biology and behavioural biology Consequently the book will be of interest to workers both within and outside the field of vision research and also to

undergraduate and graduate students interested in vision *Adaptive Mechanisms in the Ecology of Vision* S. Archer, M.B. Djamgoz, E. Loew, J.C. Partridge, S. Vallerga, 2013-04-17 John Lythgoe was one of the pioneers of the Ecology of Vision a subject that he ably delineated in his classic and inspirational book published some 20 years ago 1 At heart the original book aimed generally to identify inter relationships between vision animal behaviour and the environment John Lythgoe excelled at identifying the interesting questions in the ecology of an animal that fitted the answers presented by an analysis of the visual system Over the last twenty years however since Lythgoe's landmark publication much progress has been made and the field has broadened considerably In particular our understanding of the adaptive mechanisms underlying the ecology of vision has reached considerable depths extending to the molecular dimension partly as a result of development and application of new techniques This complements the advances made in parallel in clinically oriented vision research 2 The current book endeavours to review the progress made in the ecology of vision field by bringing together many of the major researchers presently active in the expanded subject area The contents deal with theoretical and physical considerations of light and photoreception present examples of visual system structure and function and delve into aspects of visual behaviour and communication Throughout the book we have tried to emphasise one of the major themes to emerge within the ecology of vision the high degree of adaptability that visual mechanisms are capable of undergoing in response to diverse and dynamic environments and behaviours

Vision: The Approach Of Biophysics And Neuroscience - Proceedings Of The International School Of Biophysics C Musio, 2001-07-31 The light sense is conceivably the key sense in both the animal and the plant kingdom Vision research undoubtedly a fast growing field is providing impressive results thanks to modern

theoretical and methodological advances The approach of biophysics and neuroscience seems to be of great benefit and for this reason the present book gives an outline of recent acquisitions and updated advanced methods concerning this approach Visual mechanisms and processes are analysed at several molecular cellular integrative computational and cognitive levels by different methodologies from molecular biology to computation applied to different living models from protists to humans via invertebrates and lower vertebrates Ecology of Sensing Friedrich G. Barth, Axel Schmid, 2013-06-29 Sense organs serve as a kind of biological interface between the environment and the organism Therefore the relationship between sensory systems and ecology is very close and its knowledge of fundamental importance for an understanding of animal behavior The sixteen chapters of this book exemplify the diversity of the constraints and opportunities associated with the sensation of stimuli representing different forms of energy The book stresses the events taking place in the sensory periphery where the animal is exposed to and gets in touch with its natural habitat and acquires the information needed to organize its interaction with its environment Ecology of Sensing brings together the leading experts in the field **The Optics of Life** Sönke Johnsen, 2012 Optics a field of physics focusing on the study of light is also central to many areas of biology including vision ecology botany animal behavior neurobiology and molecular biology The Optics of Life introduces the fundamentals of optics to biologists and nonphysicists giving them the tools they need to successfully incorporate optical measurements and principles into their research Sönke Johnsen starts with the basics describing the properties of light and the units and geometry of measurement He then explores how light is created and propagates and how it interacts with matter covering topics such as absorption scattering fluorescence and polarization Johnsen also provides a tutorial on how to measure light as well as an informative discussion of quantum mechanics The Optics of Life features a host of examples drawn from nature and everyday life and several appendixes that offer further practical guidance for researchers This concise book uses a minimum of equations and jargon explaining the basic physics of light in a succinct and lively manner It is the essential primer for working biologists and for anyone seeking an accessible introduction to optics Bird Coloration Geoffrey E. Hill, Kevin J. McGraw, 2006-02-28 How birds produce the brilliant and striking coloration of their feathers and other body parts is the focus of this volume Hill and McGraw have assembled the world's leading experts in perception measurement and control of bird coloration to contribute to this book which synthesizes more than 1 500 technical papers in this field

Sensory Processing in Aquatic Environments Shaun P. Collin, N. Justin Marshall, 2008-04-08 Research on sensory processing or the way animals see hear smell taste feel and electrically and magnetically sense their environment has advanced a great deal over the last fifteen years This book discusses the most important themes that have emerged from recent research and provides a summary of likely future directions The book starts with two sections on the detection of sensory signals over long and short ranges by aquatic animals covering the topics of navigation communication and finding food and other localized sources The next section the co evolution of signal and sense deals with how animals decide whether

the source is prey predator or mate by utilizing receptors that have evolved to take full advantage of the acoustical properties of the signal. Organisms living in the deep sea environment have also received a lot of recent attention so the next section deals with visual adaptations to limited light environments where sunlight is replaced by bioluminescence and the visual system has undergone changes to optimize light capture and sensitivity. The last section on central coordination of sensory systems covers how signals are processed and filtered for use by the animal. This book will be essential reading for all researchers and graduate students interested in sensory systems.

Fish Larval Physiology Roderick Nigel Finn, B.G. Kapoor, 2020-04-30. This book is intended as a resource for students and researchers interested in developmental biology and physiology and specifically addresses the larval stages of fish. Fish larvae and fish embryos are not small juveniles or adults. Rather they are transitional organisms that bridge the critical gap between the single-celled egg and sexually immature juvenile. Fish larvae represent the stage of the life cycle that is used for differentiation, feeding, and distribution. The book aims at providing a single volume treatise that explains how fish larvae develop and differentiate, how they regulate salt water and acid base balance, how they transport and exchange gases, acquire and utilize energy, how they sense their environment and move in their aquatic medium, how they control and defend themselves, and finally how they grow up.

The Crustacean Nervous System Konrad Wiese, 2013-04-17. Crustacean preparations have been successfully used for more than 50 years to investigate the principles which enable nerve cells and neural circuitry to perform in a wide variety of functions. The proud record of information of general significance obtained from crayfish and lobster nervous systems testifies that the use of an experimental system precisely matching theoretical and experimental requirements of a measurement is an essential part of the success. In some respects the secondarily diversified vertebrate and mammalian nervous systems pose severe obstacles to experimentation and measurement, whereas the crustacean nervous system recommends itself by being composed of individual neurons of unique morphology and physiology which can be used repeatedly in several preparations. Moreover, a restricted number of invariantly displayed behaviors enable the experimenter to correlate neuron activity with parts of the behavior easier. Experts use these advantages to focus on a well-defined neuron and mechanism and to take a convincing measurement within a minimum amount of time. In this book, distinguished neurobiologists, the leading experts in the field, have joined efforts to present research using crustacean experimental systems. Thus they have contributed comprehensive information regarding a nervous system other than that of vertebrates and mammals, that of crustaceans. The accumulated knowledge on the crustacean nervous system shows that it is clearly divergent in evolution but functions in a similar way to neuronal circuitry found in the vertebrate system and can be used to interpret it.

Encyclopedia of Fish Physiology, 2011-06-01. Fish form an extremely diverse group of vertebrates. At a conservative estimate, at least 40% of the world's vertebrates are fish. On the one hand, they are united by their adaptations to an aquatic environment, and on the other, they show a variety of adaptations to differing environmental conditions, often to extremes of temperature, salinity, oxygen level,

and water chemistry They exhibit an array of behavioural and reproductive systems Interesting in their own right this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists This four volume encyclopedia covers the diversity of fish physiology in over 300 articles and provides entry level information for students and summary overviews for researchers alike Broadly organised into four themes articles cover Functional Thematic and Phylogenetic Physiology and Fish Genomics Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate physiology including Reproduction Respiration Neural Sensory Central Effector Endocrinology Renal Cardiovascular Acid base Balance Osmoregulation Ionoregulation Digestion Metabolism Locomotion and so on Thematic Physiology articles are carefully selected and fewer in number They provide a level of integration that goes beyond the coverage in the Functional Physiology topics and include discussions of Toxicology Air breathing Migrations Temperature Endothermy etc Phylogenetic Physiology articles bring together information that bridges the physiology of certain groupings of fishes where the knowledge base has a sufficient depth and breadth and include articles on Ancient Fishes Tunas Sharks etc Genomics articles describe the underlying genetic component of fish physiology and high light their suitability and use as model organisms for the study of disease stress and physiological adaptations and reactions to external conditions Winner of a 2011 PROSE Award Honorable Mention for Multivolume Science Reference from the Association of American Publishers The definitive encyclopedia for the field of fish physiology Three volumes which comprehensively cover the entire field in over 300 entries written by experts Detailed coverage of basic functional physiology of fishes physiological themes in fish biology and comparative physiology amongst taxonomic Groups Describes the genomic bases of fish physiology and biology and the use of fish as model organisms in human physiological research Includes a glossary of terms

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