



E. Eguchi • Y. Tominaga (Eds.)

Atlas of Arthropod Sensory Receptors

Dynamic Morphology
in Relation to Function



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Atlas Of Arthropod Sensory Receptors Dynamic Morphology In Relation To Function

Ying-Ying Zheng



Atlas Of Arthropod Sensory Receptors Dynamic Morphology In Relation To Function:

Atlas of Arthropod Sensory Receptors Eisuke Eguchi, Yoshiha Tominaga, 1999-02 The great variety in structure and function of arthropod sensory organs is due to the huge number of species living in spatially and temporally different environments and to great variation in behavioral patterns This atlas compiles the electron microscopic anatomy of arthropod sensory organophotoreceptors chemoreceptors and others in relation to function behavior and environment The authors show how each sensory receptor is finely tuned to detect the necessary information in the arthropods surroundings and how the sensory receptors dynamically change their fine structures according to their functional and adaptational states In each two page spread of the book electron or light micrographs are shown on the right with diagrammatic illustrations and accompanying text on the left in a format that is attractive and easy to understand The atlas thus provides an important bridge between the physiology and morphology of arthropod sensory receptors

Treatise on Zoology - Anatomy, Taxonomy, Biology. The Myriapoda, Volume 2 Alessandro Minelli, 2015-09-29 Myriapods are the only major zoological group for which a modern encyclopedic treatment has never been produced In particular this was the single major gap in the largest zoological treatise of the XIX century Grass s *Trait de Zoologie* whose publication has recently been stopped The two volumes of *The Myriapoda* fill that gap with an updated treatment in the English language Volume II deals with the Diplopoda or millipedes As in the previous volume the treatment is articulated in chapters dealing with external and internal morphology physiology reproduction development distribution ecology phylogeny and taxonomy All currently recognized suprageneric taxa and a very large selection of the genera are considered All groups and features are extensively illustrated by line drawings and micrographs and living specimens of representative species of the main groups are presented in color photographs

Function and Regulation of Chemoreceptors Dieter Wicher, Frédéric Marion-Poll, 2019-02-08 To perceive environmental chemical compounds and to convert these external signals into an intracellular message might be the oldest way for a living being to get information from the outside world Chemoreceptors are proteins or protein complexes that detect molecules from the outside world either at distance olfaction or at close range gustation Chemoreceptors can operate as ionotropic or as metabotropic receptors Ionotropic receptors form ion channels that are activated via ligand binding Activation of a metabotropic receptor initiates an intracellular signaling cascade that could include a change of enzymatic activity production of second messenger or activation of ion channels The receptor performance has to be fine tuned according to the actual physiological requirements and the presentation of the chemical signal This Research Topic collects reports and reviews on structure and function of chemoreceptors in the animal kingdom and how these receptors are regulated

Treatise on Zoology - Anatomy, Taxonomy, Biology. The Myriapoda Alessandro Minelli, 2011-03-21 The *Myriapoda* is the first comprehensive monograph ever on all aspects of myriapod biology including external and internal morphology physiology reproduction development distribution ecology phylogeny and taxonomy It is thus of major interest

for all zoologists and soil biologists *The Neurobiology of Olfaction* Anna Menini,2009-11-24 Comprehensive Overview of Advances in Olfaction The common belief is that human smell perception is much reduced compared with other mammals so that whatever abilities are uncovered and investigated in animal research would have little significance for humans However new evidence from a variety of sources indicates this traditional view is likely Treatise on Zoology - Anatomy, Taxonomy, Biology. The Myriapoda, Volume 1 Alessandro Minelli,2011-03-21 Myriapods are the only major zoological group for which a modern encyclopedic treatment has never been produced In particular this was the single major gap in the largest zoological treatise of the XIX century Grass s *Trait de Zoologie* whose publication has recently been stopped The two volumes of The Myriapoda fill that gap with an updated treatment in the English language Volume I opens with an introductory treatment of myriapod affinities and phylogeny The following chapters are mostly devoted to the Chilopoda or centipedes extensively treated from the point of view of external and internal morphology physiology reproduction development distribution ecology phylogeny and taxonomy All currently recognized suprageneric and generic taxa are considered Additional chapters deal with the two smaller myriapod classes the Symphyla and the Pauropoda All groups and features are extensively illustrated by line drawings and micrographs and living specimens of representative species of the main groups are presented in color photographs **Insect Ecomorphology** Oliver Betz,2025-02-25 Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution offers the most up to date knowledge and understanding of the morphology of insects and the functional basis of their diversity This book covers the form and function of insect body structures synthesized with their physiological performance capabilities biological roles and evolutionary histories Written by international experts this book provides a modern outline of the topic exploring the ecomorphology of functional systems such as insect feeding locomotion sensing and reproduction The combination of conceptual and review chapters methodological approaches and case studies enables readers to delve into active research fields and attain a general idea of the explanatory power of the form function performance paradigm The book uncovers key structures of the different regions of the insect body elucidates how they function and investigates their ecological and evolutionary implications Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution is a vital resource for entomologists biologists and zoologists especially those seeking to better understand the morphology and physiological impacts tying insects to environments and evolution Integrates traditionally separate fields of research with the aim of understanding insect morphology ecology and evolution Considers the impacts of insect ecomorphology on biomimetic applications Includes conceptual and methodological chapters to help readers appreciate the ways in which ecomorphological studies are performed Evolutionary Biomechanics of Sound Production and Reception Carl Soulsbury,Fernando Montealegre-Z,Damian Octavio Elias,2022-01-20 Encyclopedia of Caves and Karst Science John Gunn,2004-08-02 The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries The topics include cave and karst geoscience cave archaeology and human use of caves art in caves

hydrology and groundwater cave and karst history and conservation and management The Encyclopedia is extensively illustrated with photographs maps diagrams and tables and has thematic content lists and a comprehensive index to facilitate searching and browsing

Visual Ecology Thomas W. Cronin, Sönke Johnsen, Justin Marshall, Eric J. Warrant, 2014-08-10 A comprehensive treatment of visual ecology Visual ecology is the study of how animals use visual systems to meet their ecological needs how these systems have evolved and how they are specialized for particular visual tasks Visual Ecology provides the first up to date synthesis of the field to appear in more than three decades Featuring some 225 illustrations including more than 140 in color spread throughout the text this comprehensive and accessible book begins by discussing the basic properties of light and the optical environment It then looks at how photoreceptors intercept light and convert it to usable biological signals how the pigments and cells of vision vary among animals and how the properties of these components affect a given receptor's sensitivity to light The book goes on to examine how eyes and photoreceptors become specialized for an array of visual tasks such as navigation evading prey mate choice and communication A timely and much needed resource for students and researchers alike Visual Ecology also includes a glossary and a wealth of examples drawn from the full diversity of visual systems The most up to date overview of visual ecology available Features some 225 illustrations including more than 140 in color spread throughout the text Guides readers from the basic physics of light to the role of visual systems in animal behavior Includes a glossary and a wealth of real world examples

Essentials of Machine Olfaction and Taste Takamichi Nakamoto, 2016-04-18 Essentials of Machine Olfaction and Taste This book provides a valuable information source for olfaction and taste which includes a comprehensive and timely overview of the current state of knowledge of use for olfaction and taste machines Presents original latest research in the field with an emphasis on the recent development of human interfacing Covers the full range of artificial chemical senses including olfaction and taste from basic through to advanced level Timely project in that mobile robots olfactory displays and odour recorders are currently under research driven by commercial demand

Butterfly Biology Systems Roger L.H. Dennis, 2020-10-07 In *Butterfly Biology Systems* Roger Dennis explores key topics and contentious issues in butterfly biology specifically those in life history and behaviour Uniquely using a systems approach the book focuses on the degree of integration and feedback between components and elements affecting each issue as well as the links between different issues The book comprises four sections The first two sections introduce the reader to principles and approaches for investigating complex relationships and provide a platform of knowledge on butterfly biology The final two sections deal in turn with life history and behaviour covering key issues affecting different stages of development from eggs to adults

Informatics in Control, Automation and Robotics Jean-Louis Ferrier, Oleg Gusikhin, Kurosh Madani, Jurek Sasiadek, 2014-11-04 The present book includes a set of selected papers from the tenth International Conference on Informatics in Control Automation and Robotics ICINCO 2013 held in Reykjavík Iceland from 29 to 31 July 2013 The conference was organized in four simultaneous tracks Intelligent

Control Systems and Optimization Robotics and Automation Signal Processing Sensors Systems Modeling and Control and Industrial Engineering Production and Management The book is based on the same structure ICINCO 2013 received 255 paper submissions from 50 countries in all continents After a double blind paper review performed by the Program Committee only 30% were published and presented orally A further refinement was made after the conference based also on the assessment of presentation quality so that this book includes the extended and revised versions of the very best papers of ICINCO 2013

Ant Behavior Abraham Hefetz, 2025-10-07 *Ant Behavior* utilizes evolution as a framework for comprehending the social structure and conduct of ants This book delves into the intricate workings of ant colonies illustrating how they function not just as societies but as cohesive superorganisms The text covers vital aspects such as colony structure nest architecture and the division of labor emphasizing how ants collectively achieve their societal goals In addition to exploring the colony dynamics this comprehensive guide sheds light on reproductive competition communication and intra colonial conflict It explains the complex caste systems and details how ants engage in collective behavior to protect their colonies Drawing on the latest research it provides readers with a deep understanding of ant sociality and evolutionary biology The book is an essential resource for students and researchers in entomology and zoology particularly those with an interest in social insects and evolutionary studies Uses evolution as a lens for understanding ant social behavior Covers all aspects of ant societies from nest architecture to mating behaviors and beyond Includes definitions of key terms chapter summaries and case studies to aid in understanding

Biologically Inspired Design Ashok K Goel, Daniel A McAdams, Robert B. Stone, 2013-07-16 From simple cases such as hook and latch attachments found in Velcro to articulated wing flying vehicles biology often has been used to inspire many creative design ideas The scientific challenge now is to transform the paradigm into a repeatable and scalable methodology *Biologically Inspired Design* explores computational techniques and tools that can help integrate the method into design practice With an inspiring foreword from Janine Benyus *Biologically Inspired Design* contains a dozen chapters written by some of the leading scholars in the transdisciplinary field of bioinspired design such as Frank Fish Julian Vincent and Jeannette Yen from biology and Amarek Chakrabarti Satyandra Gupta and Li Shu from engineering Based in part on discussions at two workshops sponsored by the United States National Science Foundation this volume introduces and develops several methods and tools for bioinspired design including Information processing theories Natural language techniques Knowledge based tools and Functional approaches and Pedagogical techniques By exploring these fundamental theories techniques and tools for supporting biologically inspired design this volume provides a comprehensive resource for design practitioners wishing to explore the paradigm an invaluable guide to design educators interested in teaching the method and a preliminary reading for design researchers wanting to investigate bioinspired design

Dragonflies and Damselflies Alex Córdoba-Aguilar, Christopher Beatty, Jason Thomas Bried, 2023 Documents the latest advances in odonate biology and relates these to a broader ecological and evolutionary research

agenda A diverse set of contributions from many of the leading researchers in dragonfly biology offer fresh perspectives and new paradigms as well as additional unpublished data Insect Pheromone Biochemistry and Molecular Biology Gary Blomquist, 2003-10-08 A valuable new reference on insect behavior this exceptional new text delves into the primary sensory communication system used by most insects their sense of smell Insect Pheromone Biochemistry and Molecular Biology covers how insects produce pheromones and how they detect pheromones and plant volatiles Since insects rely on pheromone detection for both feeding and breeding a better understanding of insect olfaction and pheromone biosynthesis could help curb the behavior of pests without the use of harmful pesticides and even help to reduce the socio economic impacts associated to human insect interactions Covers biochemistry and molecular biology of insect pheromone production Explains pheromone production in moths beetles flies and social insects Describes pheromone and plant volatile reception

Aquatic Insects Kleber Del-Claro, Rhainer Guillermo, 2019-06-10 This book presents a broad view of the ecology and behavior of aquatic insects raising awareness of this conspicuous and yet little known fauna that inhabits inland waterbodies such as rivers lakes and streams and is particularly abundant and diverse in tropical ecosystems The chapters address topics such as distribution dispersal territoriality mating behavior parental care and the role of sensory systems in the response to external and internal cues In the context of ecology it discusses aquatic insects as bio indicators that may be used to assess environmental disturbances either in protected or urban areas and provides insights into how genetic connectivity can support the development of novel conservation strategies It also explores how aquatic insects can inspire solutions for various problems faced by modern society presenting examples in the fields of material science optics sensorics and robotics

Neurobiology of Chemical Communication Carla Mucignat-Caretta, 2014-02-14 Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism ranging from behavioral modification to modulation of hormones release Animals emit intraspecific chemical signals often referred to as pheromones to advertise their prese *The Zoological Record* ,2000

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