



# Electrical Conduction and Behaviour in 'Simple' Invertebrates

EDITED BY

G. A. B. Shelton

# Electrical Conduction And Behaviour In Simple Invertebrates

**Marcel A. Müller**



## **Electrical Conduction And Behaviour In Simple Invertebrates:**

**Electrical Conduction and Behaviour in "simple" Invertebrates** G. A. B. Shelton, 1982 Describes our current understanding of behavioural control mechanisms in simple invertebrates other than arthropods annelids and molluscs

The ^AOxford Handbook of Invertebrate Neurobiology John H. Byrne, 2019-01-29 The Oxford Handbook of Invertebrate Neurobiology reviews the neurobiological principles that have emerged from invertebrate analyses such as mechanisms of synaptic transmission learning and memory circadian rhythms development regeneration and reproduction Unique features of the handbook include chapters on social behavior and intentionality as well as a chapter summarizing past contributions of invertebrates to the understanding of nervous systems      Structure and Evolution of Invertebrate Nervous Systems Andreas Schmidt-Rhaesa, Steffen Harzsch, Günter Purschke, 2015-12-17 The nervous system is particularly fascinating for many biologists because it controls animal characteristics such as movement behavior and coordinated thinking Invertebrate neurobiology has traditionally been studied in specific model organisms whilst knowledge of the broad diversity of nervous system architecture and its evolution among metazoan animals has received less attention This is the first major reference work in the field for 50 years bringing together many leading evolutionary neurobiologists to review the most recent research on the structure of invertebrate nervous systems and provide a comprehensive and authoritative overview for a new generation of researchers Presented in full colour throughout Structure and Evolution of Invertebrate Nervous Systems synthesizes and illustrates the numerous new findings that have been made possible with light and electron microscopy These include the recent introduction of new molecular and optical techniques such as immunohistochemical staining of neuron specific antigens and fluorescence in situ hybridization combined with visualization by confocal laser scanning microscopy New approaches to analysing the structure of the nervous system are also included such as micro computational tomography cryo soft X ray tomography and various 3 D visualization techniques The book follows a systematic and phylogenetic structure covering a broad range of taxa interspersed with chapters focusing on selected topics in nervous system functioning which are presented as research highlights and perspectives This comprehensive reference work will be an essential companion for graduate students and researchers alike in the fields of metazoan neurobiology morphology zoology phylogeny and evolution      Neural Mechanisms of Startle Behavior Robert C. Eaton, 2013-11-11 In the past fifteen years there has been considerable interest in neural circuits that initiate behavior patterns For many types of behaviors this involves decision making circuits whose primary elements are neither purely sensory nor motor but represent a higher order of neural processing Of the large number of studies on such systems analyses of startle circuits compose a major portion and have been carried out on systems found throughout the animal kingdom Startle has been an important model because of the reliability of the behavioral act for laboratory study and the accessibility of the underlying neural circuitry However probably because of the breadth of the subject this material has never been reviewed in a comprehensive way that presents the

elements common to startle circuits in the different animal systems in which they occur This book presents a diversity of approaches based on a broad background of animal groups ranging from the earliest nervous systems in cnidarians to the most recently evolved and advanced in mammals The behaviors themselves are all short latency fast motor acts when considered on the time scale of the organism and involve avoidance or evasion although in some cases we do not yet completely understand their natural role These behaviors occur in response to stimuli that have sudden or unexpected onset

**Evolution of the First Nervous Systems** Peter A.V. Anderson, 2013-11-11 This book represents the proceedings of a NATO Advanced Research Workshop of the same name held at St Andrews University Scotland in July of 1989 It was the first meeting of its kind and was convened as a forum to review and discuss the phylogeny of some of the cell biological functions that underlie nervous system function such matters as intercellular communication in diverse lower organisms and the electrical excitability of protozoans and cnidarians to mention but two The rationale behind such work has not necessarily been to understand how the first nervous systems evolved many of the animals in question provide excellent opportunities for examining general questions that are unapproachable in the more complex nervous systems of higher animals Nevertheless a curiosity about nervous system evolution has invariably pervaded much of the work The return on this effort has been mixed depending to a large extent on the usefulness of the preparation under examination For example work on cnidarians to many the keystone phylum in nervous system evolution simply because they possess the first nervous systems lagged behind that carried out on protozoans because the latter are large single cells and thus far more amenable to microelectrode based recording techniques Furthermore protozoans can be cultured easily and are more amenable to genetic and molecular analyses

**Marine invertebrates and sound** Marta Solé, Michel André, 2023-08-21 **Frontiers in Invertebrate Physiology: A Collection of Reviews** Saber Saleuddin, Sally P. Leys, Robert D. Roer, Iain C. Wilkie, 2024-02-13 This new 3 volume set provides informative reviews on the physiology of sponges cnidarians round and flat worms annelids echinoderms and crustaceans advancing our knowledge of the physiology of these major invertebrate groups Phyla Invertebrates exhibit the largest number of species and occupy virtually every conceivable ecological niche They are economically important in food chains they recycle organic waste and they are crucial pollinators of plants and sources of food They are also medically relevant as parasites that cause major diseases in both humans and livestock Volume 1 looks at non Bilaterians sponges cnidarians placozoans The focus on sponge biology has recently been on symbiosis nutrient uptake and sensory biology The section on cnidarians covers biomineralization the nervous system and development The biology of placozoans is described in depth including the role of neuropeptides in feeding Volume 2 and covers crustacean physiology and diverse physiological topics ranging from molting respiration water balance biomineralization bioreceptors and temperature regulation to the land adaptation of terrestrial crustaceans Echinoderms and annelids are covered in Volume 3 [The Biology of Nematocysts](#) Howard Lenhoff, 2012-12-02 The Biology of Nematocysts is derived from a symposium dedicated to the exclusive discussion

on the biology of nematocysts and cnidocytes This book is basically a collection of the submitted reviews of contributors and research proceedings presented at the symposium An introduction on the recognition and discovery of both cnidarians and nematocyst aptly begins the discussion in the book The first chapter serves as an advanced reading that helps readers be familiarized with the terms used in the entire volume The following chapters are subdivided into six parts including topics on the ultrastructure development control and morphodynamics of discharge biochemistry and natural history The multidisciplinary approach of the main themes is intended to fully understand the unique qualities of the intracellular structure of nematocyst This volume will be of great benefit to students and researchers in biological science cell biology zoology microbiology and general physiology

Evolutionary Neuroscience Jon H Kaas, 2009-07-28 Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference Evolution of Nervous Systems Elsevier Academic Press 2007 The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains The articles are organized in sections focused on theories and brain scaling the evolution of brains from early vertebrates to present day fishes amphibians reptiles and birds the evolution of mammalian brains and the evolution of primate brains including human brains Each chapter is written by a leader or leaders in the field and has been reviewed by other experts Specific topics include brain character reconstruction principles of brain scaling basic features of vertebrate brains the evolution of the major sensory systems and other parts of brains what we can learn from fossils the origin of neocortex and the evolution of specializations of human brains The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present day vertebrates This book would be of use to students at the graduate or undergraduate levels as well as professional neuroscientists cognitive scientists and psychologists Together the chapters provide a comprehensive list of further reading and references for those who want to inquire further The most comprehensive authoritative and up to date single volume collection on brain evolution Full color throughout with many illustrations Written by leading scholars and experts

*The Evolution of the Sensitive Soul* Simona Ginsburg, Eva Jablonka, 2019-03-12 A new theory about the origins of consciousness that finds learning to be the driving force in the evolutionary transition to basic consciousness What marked the evolutionary transition from organisms that lacked consciousness to those with consciousness to minimal subjective experiencing or as Aristotle described it the sensitive soul In this book Simona Ginsburg and Eva Jablonka propose a new theory about the origin of consciousness that finds learning to be the driving force in the transition to basic consciousness Using a methodology similar to that used by scientists when they identified the transition from non life to life Ginsburg and Jablonka suggest a set of criteria identify a marker for the transition to minimal consciousness and explore the far reaching biological psychological and philosophical implications After presenting the historical neurobiological and philosophical foundations of their analysis Ginsburg and Jablonka propose that

the evolutionary marker of basic or minimal consciousness is a complex form of associative learning which they term unlimited associative learning UAL UAL enables an organism to ascribe motivational value to a novel compound non reflex inducing stimulus or action and use it as the basis for future learning Associative learning Ginsburg and Jablonka argue drove the Cambrian explosion and its massive diversification of organisms Finally Ginsburg and Jablonka propose symbolic language as a similar type of marker for the evolutionary transition to human rationality to Aristotle s rational soul

**Advances in Marine Biology** ,1987-12-01 Advances in Marine Biology **Jellyfish Blooms: Ecological and Societal Importance** J.E. Purcell,W.M. Graham, Henri J. Dumont, 2012-12-06 Jellyfish a group that includes scyphomedusae hydromedusae siphonophores and ctenophores are important zooplankton predators throughout the world s estuaries and oceans These beautiful creatures have come to public attention as featured exhibits in aquaria and in news headlines as invaders and as providers of genes used in biomedical research Nevertheless jellyfish are generally considered to be nuisances because they interfere with human activities by stinging swimmers clogging power plant intakes and nets of fishermen and fish farms and competing with fish and eating fish eggs and larvae There is concern that environmental changes such as global warming eutrophication and over fishing may result in increased jellyfish populations The literature reviews and research papers in this volume explore the interactions between jellyfish and humans Papers cover the medical aspects of jellyfish stings jellyfish as human food and jellyfish fisheries interactions of jellyfish and fish effects of environmental changes on jellyfish effects of introduced ctenophores on the Black Sea ecosystem factors causing increases or concentrations of jellyfish and others aspects of jellyfish ecology This is an important reference for students and professional marine biologists oceanographers fishery scientists and aquarists *The Wiley Handbook of Evolutionary Neuroscience* Stephen V. Shepherd, 2017-01-30 Comprehensive and authoritative *The Wiley Handbook of Evolutionary Neuroscience* unifies the diverse strands of an interdisciplinary field exploring the evolution of brains and cognition A comprehensive reference that unifies the diverse interests and approaches associated with the neuroscientific study of brain evolution and the emergence of cognition Tackles some of the biggest questions in neuroscience including what brains are for what factors constrain their biological development and how they evolve and interact Provides a broad and balanced view of the subject reviewing both vertebrate and invertebrate anatomy and emphasizing their shared origins and mechanisms Features contributions from highly respected scholars in their fields **Life in the Open Ocean** Joseph J. Torres, Thomas G. Bailey, 2022-01-14 *Life in the Open Ocean* The Biology of Pelagic Species provides in depth coverage of the different marine animal groups that form the communities inhabiting the ocean s pelagic realm This comprehensive resource explores the physical environment foraging strategies energetics locomotion sensory mechanisms global and vertical distributions special adaptations and other characteristics of a wide array of marine taxa Bringing together the most recent information available in a single volume authors Joseph J Torres and Thomas G Bailey cover the Cnidaria stinging

jellies the ctenophores comb jellies pelagic nemerteans pelagic annelids crustaceans cephalopods and pelagic gastropods invertebrate chordates as well as micronektonic and larger fishes such as sharks tunas mackerels and mahi mahi Detailed chapters on each pelagic group describe internal and external anatomy classification and history feeding and digestion bioluminescent systems and their function reproduction and development respiration excretion nervous systems and more The first book of its kind to address all of the major animal groups comprising both the swimmers and drifters of the open sea this important resource Explains how different animals have adapted to live in the open ocean environment Covers all sensory mechanisms of animals living in the pelagic habitat including photoreception mechanoreception and chemoreception Treats the diverse micronekton assemblage as a community Includes a thorough introduction to the physical oceanography and properties of water in the pelagic realm Life in the Open Ocean The Biology of Pelagic Species is an excellent senior level undergraduate and graduate textbook for courses in biology and biological oceanography and a valuable reference for all those with interest in open ocean biology

Sessile Animals of the Sea Shore Vernon Haris, 1990-03-31 This is a study on the sessile species of the intertidal zone which attempts to portray the intricate interplay of structural physiological and behavioural adaptations that enable one animal to live where its congeners cannot *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), **Current Catalog** National Library of Medicine (U.S.), **Parasites and Behaviour** M. V. K. Sukhdeo, Leslie H. Chappell, 1994 This volume of Parasitology takes an in depth look at parasitic behaviour BULLETIN TOME XCVI, 1987-05-13 TABU DES MATIERES 1 Van Oordt P G W J European Comparative Endocrinology 1 2 Szentagothai J Whither Neuroendocrinology 5 3 Grimmelikhuijzen C J P Graff D Groeger A McFarlane I D Structure Action and Location of coelenterate Arg Phe amide peptides 13 4 De Loof A Huybrechts R Verhaert P Vertebrate Peptide Hormone like Materials in Arthropods Identification Methods and Functions 25 5 Jenks G B Verburg van Kemenade B M L Lidy Neuroendocrine Integration in the Pars Intermedia of the Amphibian *Xenopus laevis* 37 6 Le Boulenger F Delarue C Netchitailo P Benyamina M Feuilloley M Lihmann I Perroteau I Vaudry H Multihormonal Control of Steroid Biosynthesis in Amphibian Interrenal Tissue 57 7 Hermann Erlee M P M Lowik C W G M van Leeuwen J P T M Receptor Blinding of Parathyroid Hormone on Osteoblasts and the Intracellular Effects of the Hormone 73 8 Nemec Vac lav Insect Hormones and their Practical Application 81 9 Barannikowa I A Hormones in Aquaculture 91 Creative Commons Attribution Noncommercial No Derivative Works 3 0 Serbia <http://creativecommons.org/licenses/by-nc-nd/3.0/rs/deed-en> **A Functional Biology of Scyphozoa** M.N. Arai, 2012-12-06 Scyphozoa have attracted the attention of many types of people Naturalists watch their graceful locomotion Fishermen may dread the swarms which can prevent fishing or eat larval fish Bathers retreat from the water if they are stung People from some Asiatic countries eat the medusae Comparative physiologists examine them as possibly simple models for the functioning of various systems This book integrates data from those and other investigations into a functional biology of scyphozoa It will emphasize the wide range of adaptive responses possible in these

morphologically relatively simple animals The book will concentrate on the research of the last 35 years partly because there has been a rapid expansion of knowledge during that period and partly because much of the previous work was summarized by books published between 1961 and 1970 Bibliographies of papers on scyphozoa were included in Mayer 1910 and Kramp 1961 Taxonomic diagnoses are also included in those monographs as well as in a monograph on the scyphomedusae of the USSR published by Naumov Naumov 1961 Most importantly a generation of scyphozoan workers has used as its bible the monograph by F S Russell 1970 The Medusae of the British Isles In spite of its restrictive title his book reviews most of the information on the biology of scyphozoa up to that date



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