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Volume 11, Number 1, 1981

Neural Nets In Electric Fish

Lei Huang



Neural Nets In Electric Fish:

Neural Nets in Electric Fish Walter Heiligenberg, 1991-10-24 Heiligenberg's pioneering research describes the behavior of one species the jamming avoidance response in the electric fish *Eigenmannia* providing a rich mine of data that documents the first vertebrate example of the workings of the entire behavioral system from sensory input to motor output *Neural Nets in Electric Fish* presents the principles and detailed results that have emerged from this exciting program Heiligenberg's introduction familiarizes the reader with the unusual sensory modality electroreception demonstrating the rationale and the motive behind the research The text which includes many helpful new pedagogical graphs takes up the behavioral work done in the early 1980s from explorations of peripheral receptors the hindbrain the midbrain and finally diencephalon to the most recent studies of motor output *Neural Nets in Electric Fish* clearly describes Heiligenberg's analysis of the complex nature of the electrical stimulus delivered to *Eigenmannia* during jamming avoidance and explains the novel two parameter notation he uses to represent the different stages in information processing giving many examples of the notation's power The book relates all known behavioral phenomena of the jamming avoidance response to specific properties of the underlying neural network organization and draws interesting parallels between the electric sense and other sensory processing systems such as the barn owl's sound localization system motion detection systems in vision and bat echolocation

The Physiology of Fishes, Fourth Edition David H. Evans, James B. Claiborne, Suzanne Currie, 2013-11-25 Following the success of the bestselling third edition this newly updated and completely revised fourth edition of *The Physiology of Fishes* provides comprehensive coverage of the most important aspects of the form and function of fishes It covers the most recent advances as well as fundamental subjects such as cardiovascular physiology intestinal transport and gill ion uptake Written by an international group of experts this book contains fresh approaches with completely new treatment of the original topics and the addition of new chapters Muscle plasticity Membranes and Metabolism Oxygen Sensing Endocrine Disruption Pain Perception Cardiac Regeneration Neuronal Regeneration Two decades after the publication of the first edition this book remains the only published single volume work on fish physiology Each chapter contains an extensive bibliography providing readers with the best sources from the primary literature The fourth edition provides an important reference for aquatic biologists ichthyologists fisheries scientists and comparative physiologists

The Physiology of Fishes Suzanne Currie, David H. Evans, 2020-09-07 The fifth edition of *The Physiology of Fishes* represents a compendium of knowledge across fish physiology collecting up to date research into an easy to access single textbook Written by the leaders in the field it provides a comprehensive accessible review of the core topics integrating physiology with environmental science ecology evolution and molecular cell biology New chapters address Epigenetics Biomechanics and Locomotion and Behaviour and Learning Each chapter contains an extensive bibliography providing readers with the best sources from the primary literature Almost three decades after the publication of the first edition this book remains the only published single volume work on fish

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Recent Advances in Electroreception and

Electrogeneration Maurice Chacron, Michael R. Markham, 2021-05-03 The Physiology of Fishes David H. Evans, James B. Claiborne, 2005-12-15

New scientific approaches have dramatically evolved in the decade since *The Physiology of Fishes* was first published. With the genomic revolution and a heightened understanding of molecular biology we now have the tools and the knowledge to apply a fresh approach to the study of fishes. Consequently *The Physiology of Fishes* Third Edition is not merely another updating but rather an entire reworking of the original. To satisfy that need for a fresh approach the editors have employed a new set of expert contributors steeped in the very latest research; their contemporary perspective pervades the entire text. In addition to new chapters on gas transport, temperature physiology and stress as well as one dedicated to functional genomics, readers will discover that many of these new contributors approach their material with a contemporary molecular perspective. While much of the material is new, the editors have completely adhered to the original's style in creating a text that continues to be highly readable and perpetually insightful in bridging the gap between pure and applied science. *The Physiology of Fishes* Third Edition, completely updated with a molecular perspective, continues to be regarded as the best single volume general reference on all major areas of research in fish physiology. *The Physiology of Fishes* Third Edition provides background information for advanced students as well as material of interest to marine and fisheries biologists, ichthyologists and comparative physiologists looking to differentiate between the physiological strategies unique to fishes and those shared with other organisms.

Neural Basis of Behavioural Adaptations Franz Huber, 1994

Electric Fishes P. Møller, 1995-07-31 This book covers in detail the development and use of the electric sense in fishes. Contents include coverage of taxonomy of the species involved, electric organs and electroreception, hormones and behaviour and the role of other sensory systems in conjunction with the electric sense. The book will be of great value to fish biologists, physiologists, evolutionary scientists, animal behaviourists and aquatic scientists.

Communication in Fishes

Friedrich Ladich, 2006 *Physiology and Biochemistry of the Fishes of the Amazon* Adalberto Luis Val, Vera M. F. Almeida-Val, David John Randall, 1996

Biology and ecophysiology of fishes of the Amazon. Ecophysiological aspects of Amazonian blackwater, litterbank fish communities. Electric signalling and communication in weakly electric fishes, Gymnotiformes of South America. Reproductive biology of piranhas, Teleostei, Characiformes. Larval development in the tambaqui, *Colossoma macropomum* and the curimatá, *Prochilodus marginatus*. Physiological responses to hypoxia and pH changes. Surviving low oxygen levels. Lessons from fishes of the Amazon. Hemoglobin adaptations in Amazonian and temperate fish with special reference to hypoxia, allosteric effectors and functional heterogeneity. Acid excretion in Amazonian fish. The interaction between O₂ and CO₂ exchange in the obligate air breather *Arapaima gigas* and the facultative air breather *Lipossarcus pardalis*. Ion regulation in ion poor waters of low pH. Ammonia excretion in fish adapted to an ion poor environment. The hemoglobins of

two species of the genus *Hypophthalmus* Siluriformes Hypophthalmidae Control of ventilation in air breathing fish
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 intermediate and long term roles Respiration in fishes of the Amazon metabolic adjustments to chronic hypoxia Cardiac
 energy metabolism in teleosts and marine elasmobranchs Where do freshwater elasmobranchs fit Antioxidant defenses in
 fishes of the Amazon **Sensory Biology of Jawed Fishes** B G Kapoor, T.J. Hara, 2001-01-03 The book reviews recent
 advances in tropical plant breeding Each of the twenty four chapters describes a specific crop which has been written by
 scientists working in the field of plant breeding and genetic improvement of that particular species The book will be a useful
 reference work for professional plant breeders as well as researchers teachers and students interested in this topic

Progress in Neural Information Processing Shunichi Amari, 1996 These two volumes are the papers presented at the
 International Conference on Neural Information Processing ICONIP 96 held in Hong Kong 24-27 September 1996 Over three
 hundred selected papers make up two volumes of 700 pages each Featured topics of Volume 1 are Learning Theories and
 Algorithms Speech and Signal Processing Pattern Recognition and Image Processing Recurrent Networks Automata and
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 processing and reflect the latest progress with a good balance between scientific studies and industrial applications as well as
 featuring neural information processing approaches on financial engineering Journal of Comparative Physiology, 2006

The Journal of Neuroscience, 1998 *Journal of Experimental Biology*, 2008 **Electromotor Control System in**
Gymnarchus Niloticus Ying Zhang, 2007 **Synaptic Modulation of a Neuronal Oscillator** Jenifer Juranek, 1998 **A**
Phylogenetic Analysis of the American Knifefishes (teleostei: Gymnotoidei). James Spurling Albert, 1995 Biology
of Tropical Fishes Adalberto Luís Val, 1999 Biology of tropical fish The phosphagen system in vertebrate muscles new insights
 Detrended canonical correspondence analysis DCCA of electric fish assemblages in the Amazon Mechanisms of signal
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Neural Nets In Electric Fish Book Review: Unveiling the Power of Words

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