

Springer Handbook of Auditory Research

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Biosonar

 Springer

Biosonar Springer Handbook Of Auditory Research

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Biosonar Springer Handbook Of Auditory Research:

Biosonar Annemarie Surlykke, Paul E. Nachtigall, Richard R. Fay, Arthur N. Popper, 2014-07-19 Two groups of animals bats and odontocetes toothed whales have independently developed the ability to orient and detect prey by biosonar echolocation This active mechanism of orientation allows these animals to operate under low light conditions Biosonar is a conceptual overview of what is known about biosonar in bats and odontocetes Chapters are written by bat and odontocetes experts resulting in collaborations that not only examine data on both animals but also compare and contrast mechanisms This book provides a unique insight that will help improve our understanding of biosonar in both animal groups **Bat**

Bioacoustics M. Brock Fenton, Alan D. Grinnell, Arthur N. Popper, Richard R. Fay, 2016-06-02 Arguably biosonar is one of the eye opening discoveries about animal behavior and the auditory systems of echolocators are front and center in this story Echolocation by bats has proven to be a virtual gold mine for colleagues studying neurobiology while providing many rich examples of its impact on other areas of bats lives In this volume we briefly review the history of the topic reminding readers of the 1995 Hearing by Bats We use a chapter on new findings in the phylogeny of bats to put the information that follows in an evolutionary context This includes an examination of the possible roles of Prestin and FoxP2 genes and various anatomical features affecting bat vocalizations We introduce recent work on the role of noseleaves ears and other facial components on the focusing of sound and collection of echoes **Ontogeny, Functional Ecology, and Evolution of Bats** Rick A.

Adams, Scott C. Pedersen, 2000-06-15 The study of animal development has deep historical roots in codifying the field of evolutionary biology In the 1940s evolutionary theory became engulfed by analyses of microevolutionary genetics and development became focused on mechanisms forsaking the evolutionary implications of ontogeny Recently ontogeny has resurfaced as a significant component of evolutionary change and also of population and community dynamics Ontogeny Functional Ecology and Evolution of Bats is a reference work by bat biologists who emphasize the importance of understanding ontogeny in analyses of evolution and ecology In addition the developmental underpinnings of specialized morphology physiology and behaviour are elucidated and the strong influence of ecology on the ontological niche of juvenile bats is illustrated This book is an essential reference not only for bat biologists but for anyone working in the fields of ecology developmental biology evolution behaviour and systematics Conservation Physiology for the Anthropocene - A Systems

Approach, 2022-10-21 Conservation Physiology for the Anthropocene A Systems Approach Volume 39A in the Fish Physiology series is a comprehensive synthesis on the physiology of fish in the Anthropocene This volume closes the knowledge gap by considering the many ways in which different physiological systems e g sensory physiology endocrine cardio respiratory bioenergetics water and ionic balance and homeostasis locomotion biomechanics gene function and physiological diversity are relevant to management and conservation As the world is changing with a dire need to identify solutions to the many environmental problems facing wild fish populations this book comprehensively covers conservation physiology and its future

techniques Conservation physiology reveals the many ways in which environmental change and human activities can negatively influence wild fish populations These tactics inform new management and conservation activities and help create the necessary conditions for fish to thrive Presents authoritative contributions from an international board of authors each with extensive expertise in the conservation physiology of fish Provides the most up to date information on the ways in which different physiological systems are relevant to the management and conservation of fish and fisheries Identifies how anthropogenic stressors perturb physiological systems Explores how different physiological systems can be exploited to solve conservation problems **The Mind-brain Continuum** Rodolfo Riascos Llinás, Patricia Smith Churchland, 1996 Bringing together contributors working on a common problem but addressing different levels of brain organization by way of different techniques The Mind Brain Continuum seeks to determine which scientific questions are most pressing as we move toward discovering the neurobiology of psychological processes As the title implies contributions are organized around the notion that mental activity is brain activity providing a broad integrated view of a particular subset of brain function The focus is on sensory perception processes that include somatosensory auditory and olfactory processes as well as research on vision

Exploring Animal Behavior Through Sound: Volume 1 Christine Erbe, Jeanette A. Thomas, 2022-10-03 This open access book empowers its readers to explore the acoustic world of animals By listening to the sounds of nature we can study animal behavior distribution and demographics their habitat characteristics and needs and the effects of noise Sound recording is an efficient and affordable tool independent of daylight and weather and recorders may be left in place for many months at a time continuously collecting data on animals and their environment This book builds the skills and knowledge necessary to collect and interpret acoustic data from terrestrial and marine environments Beginning with a history of sound recording the chapters provide an overview of off the shelf recording equipment and analysis tools including automated signal detectors and statistical methods audiometric methods acoustic terminology quantities and units sound propagation in air and under water soundscapes of terrestrial and marine habitats animal acoustic and vibrational communication echolocation and the effects of noise This book will be useful to students and researchers of animal ecology who wish to add acoustics to their toolbox as well as to environmental managers in industry and government Encyclopedia of Perception E. Bruce Goldstein, 2010 Because of the ease with which we perceive many people see perception as something that just happens However even seemingly simple perceptual experiences involve complex underlying mechanisms which are often hidden from our conscious experience These mechanisms are being investigated by researchers and theorists in fields such as psychology cognitive science neuroscience computer science and philosophy A few examples of the questions posed by these investigations are What do infants perceive How does perception develop What do perceptual disorders reveal about normal functioning How can information from one sense such as hearing be affected by information from another sense such as vision How is the information from all of our senses combined to result in our perception of a coherent environment What are

some practical outcomes of basic research in perception These are just a few of the questions this encyclopedia will consider as it presents a comprehensive overview of the field of perception for students researchers and professionals in psychology the cognitive sciences neuroscience and related medical disciplines such as neurology and ophthalmology Marine Mammal Observer and Passive Acoustic Monitoring Handbook Victoria Todd,Ian Todd,Jane Gardiner,Erica Morrin,2015-03-02 Marine Mammal Observer and Passive Acoustic Monitoring Handbook is the ultimate instruction manual for mitigation measures to minimise man made acoustical and physical disturbances to marine mammals from industrial and defence activities Based on more than two decades of offshore experience and a decade of supplying MMO and PAM services commercial and scientific the Handbook is a long overdue reference guide that seeks to improve standards worldwide for marine operations such as seismic and drilling exploration wind farm and civil engineering piling dredging trenching rock dumping hydrographical surveys and military defence exercises By popular request this manual will also form an accompaniment to MMO and PAM courses The Handbook consolidates all aspects of this discipline into one easily accessible resource to educate all stakeholders e g MMOs PAM operators suppliers recruitment agencies clients contractors regulators NGOs consultants scientists academia and media regardless of experience Topics include worldwide legislation compliance anthropogenic noise sources and potential effects training offshore life visual and acoustic monitoring theory and practice marine mammal distribution hearing and vocalisations and report writing Advice is provided on implementing sensible and practical mitigation techniques appropriate technologies data collection client and regulator liaison and project kick off meetings The Handbook is an indispensable How To guide to the growing and increasingly important occupation of marine mammal monitoring written with clarity and humor by scientists who have extensive experience in this field Dr Phillip J Clapham world renowned cetologist and Director of the Cetacean Assessment and Ecology Program at the National Marine Mammal Laboratory in Seattle **Big Bat Year** Nils Bouillard,2023-04-27 Can one undertake a round the world trip with conservation uppermost in the mind This is exactly what Nils Bouillard sought to do in 2019 adapting a popular concept in birding known as the big year and focusing instead on bats This had never been done before and so became the ideal platform to spotlight countless conservation projects across the globe In this engaging and inspiring account we follow Nils on his adventures along the way discovering the extraordinary diversity of bat appearances and behaviour and learning how we might help to protect these fascinating creatures During his itinerary covering just shy of 30 countries Nils was lucky enough to encounter no fewer than 400 bat species But beyond the impressive list Big Bat Year is a passionate tale about the people who are protecting bats all over the world the amazing life of these animals and the unique and doughty journey it required to set a world record Going off the beaten path isn't difficult when it comes to bat watching offering the chance for genuine exploration and even discovery as evidenced by the important discovery of a species new to science while visiting Southeast Asia This book will appeal to any nature enthusiast regardless of whether you enjoy chasing new species

Diversity In Auditory Mechanics - Proceedings Of The International Symposium Charles R Steele, Edwin R Lewis, E Hecht-poiner, G R Long, R F Lyon, Peter M Narins, 1997-05-27 This proceedings volume contains papers presented during the meeting on Diversity in Auditory Mechanics by leading neurobiologists biophysicists and mathematicians interested in auditory periphery

Decoding **Biosonar Springer Handbook Of Auditory Research**: Revealing the Captivating Potential of Verbal Expression

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