



## Bat Bioacoustics (Springer Handbook of Auditory Research)

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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 noseleafs, ears, and other facial components on the focusing of sound and collection of echoes. ?

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### Editorial Review

#### From the Back Cover

In Bat Bioacoustics we briefly review the history of biosonar and echolocation (reminding readers of the 1995 Hearing by Bats). Adaptations for biosonar make one of the most fascinating stories in neuroethology. The auditory systems, biosonar signals, and their central role in the biology of bats 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. This volume is aimed at graduate students and postdoctoral investigators, as well as professionals and academics. It is intended to function as a high-profile and up-to-date reference work on bat bioacoustics.

- **A History of the Study of Echolocation** by Alan D. Grinnell, Edwin Gould, and M. Brock Fenton
- **Phylogeny, Genes, and Hearing – Implications for the Evolution of Echolocation in Bats** by Emma C. Teeling, Gareth Jones, and Stephen J. Rossiter
- **Ultrasound Production, Emission, and Reception** by Walter Metzner and Rolf Mueller
- **To Scream or to Listen? Prey Detection and Discrimination in Animal-Eating Bats** by Patricia L. Jones, Rachel A. Page, and John M. Ratcliffe
- **Roles of Acoustic Social Communication in the Lives of Bats** by Erin Gillam and M. Brock Fenton
- **Guild Structure and Niche Differentiation in Echolocating Bats** by Annette Denzinger, Elisabeth K. V. Kalko†, Marco Tschapka, Alan D. Grinnell, and Hans-Ulrich Schnitzler
- **Neural Coding of Signal Duration and Complex Acoustic Objects** by Paul A. Faure and Uwe Firzlaff
- **The Neural Processing of Frequency Modulations in the Auditory System of Bats** by George D. Pollak
- **Behavioral and Physiological Bases for Doppler Shift Compensation by Echolocating Bats** by Shizuko Hiryu, Emanuel C. Mora, and Hiroshi Riquimaroux
- **Perceiving the World Through Echolocation and Vision** by Annemarie Surlykke, James A. Simmons, and Cynthia F. Moss
- **Perspectives and Challenges for Future Research in Bat Hearing** by Lutz Wiegrefe, Alan D. Grinnell, and M. Brock Fenton

#### About the Editors:

**M. Brock Fenton** is Professor Emeritus in the Department of Biology at Western University.

**Alan D. Grinnell** is Distinguished Professor of Integrative Biology and Physiology at the University of

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**Arthur N. Popper** is Professor Emeritus and Research Professor in the Department of Biology at the University of Maryland, College Park.

**Richard R. Fay** is Distinguished Research Professor of Psychology at Loyola University Chicago.

About the Series:

The Springer Handbook of Auditory Research presents a series of synthetic reviews of fundamental topics dealing with auditory systems. Each volume is independent and authoritative; taken as a set, this series is the definitive resource in the field

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