



# ANURAN COMMUNICATION

EDITED BY MICHAEL J. RYAN

# Anuran Communication

**Gregorio Moreno-Rueda, Mar Comas**

## **Anuran Communication:**

**ANURAN COMMUNICATION** RYAN MICHAEL J,2001-05-17 In this volume 25 scientists from around the world review the most recent advances in the study of how frogs and toads communicate The contributors who are experts in disciplines including animal behaviour developmental biology endocrinology evolution ecology and neurobiology examine this amphibian order s vocal visual and chemical signals the physiology and energetics of their production neural processing related behaviours and evolutionary implications As the chapters demonstrate research developments have led to further understanding of the role of the anuran larynx in sound production how the anuran brain recognizes sound and how both of these processes are influenced by the animal s physiological state The contributors also discuss male to male call strategies as well as how female preferences for call variation contribute to sexual selection speciation and hybridization The text presents material about kin recognition abilities and the surprising range of visual displays by tropical anurans and examines how the inherent structure of the auditory system might generate sensory biases that influence signal evolution

**Encyclopedia of Language and Linguistics** ,2005-11-24 The first edition of ELL 1993 Ron Asher Editor was hailed as the field s standard reference work for a generation Now the all new second edition matches ELL s comprehensiveness and high quality expanded for a new generation while being the first encyclopedia to really exploit the multimedia potential of linguistics The most authoritative up to date comprehensive and international reference source in its field An entirely new work with new editors new authors new topics and newly commissioned articles with a handful of classic articles The first Encyclopedia to exploit the multimedia potential of linguistics through the online edition Ground breaking and International in scope and approach Alphabetically arranged with extensive cross referencing Available in print and online priced separately The online version will include updates as subjects develop ELL2 includes c 7 500 000 words c 11 000 pages c 3 000 articles c 1 500 figures 130 halftones and 150 colour Supplementary audio video and text files online c 3 500 glossary definitions c 39 000 references Extensive list of commonly used abbreviations List of languages of the world including information on no of speakers language family etc Approximately 700 biographical entries now includes contemporary linguists 200 language maps in print and online Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) The first Encyclopedia to exploit the multimedia potential of linguistics Ground breaking in scope wider than any predecessor An invaluable resource for researchers academics students and professionals in the fields of linguistics anthropology education psychology language acquisition language pathology cognitive science sociology the law the media medicine computer science The most authoritative up to date comprehensive and international reference source in its field

*Evolutionary Ecology of Amphibians* Gregorio Moreno-Rueda,Mar Comas,2023-06-30 Amphibians are the oldest tetrapod

group and show an astonishing diversity in lifestyles many of them being unique However globally they are on a decline Hence their study is fundamental to understanding the evolution of diversity and conserving them This book authored by experts from around the world summarizes the current knowledge on the evolutionary ecology of amphibians The book treats biological concepts related to the evolution ecology physiology immunology behaviour and morphology of amphibians in their different states This book constitutes an actualized work indispensable for evolutionary ecologists and herpetologists

**Handbook of Signal Processing in Acoustics** David Havelock,Sonoko Kuwano,Michael Vorländer,2008-10-26 The Handbook of Signal Processing in Acoustics brings together a wide range of perspectives from over 100 authors to reveal the interdisciplinary nature of the subject It brings the key issues from both acoustics and signal processing into perspective and is a unique resource for experts and practitioners alike to find new ideas and techniques within the diversity of signal processing in acoustics

**The Vasopressin System and Behavior** Heather K. Caldwell,Aras Petrulis,2018-11-16 Vasopressin and its homologues are evolutionarily ancient neuropeptides that are important to the neural modulation of behavior in many species Over the last several decades there has been an emergence of cross species consensus with regards to the broad behavioral domains that the vasopressin system influences However there are nuanced species and sex differences in the functions of this system as well as evidence for cross talk between this system and the oxytocin system For this Research Topic reviews and research articles from investigators across the field were solicited with the goal to highlight some of the complexity and diversity within this system This collection challenges researchers to broaden their understanding of this system as well as identifies areas in which additional research is needed Topic areas featured include System complexity Sex and species differences Developmental effects Human and non human primates

**The Senses: A Comprehensive Reference** ,2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and

deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion *Animal Behavior* Victor S.

Lamoureux,2016-04-19 This title includes a number of Open Access chapters This comprehensive volume looks at a range of topics covering the habits of a variety of animals including how macaques teach their offspring how rats transmit avoidance behavior how supplementary feeding of tree frogs affects their breeding behavior and more Studies in animal behavior can

**Advances in the Study of Behavior** ,2016-05-13 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior This volume makes another important contribution to the development of the field by presenting theoretical ideas and research findings to professionals studying animal behavior and related fields Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and related fields **Hormones, Brain and Behavior** ,2016-11-09 Hormones Brain and Behavior Third Edition offers a state of the art overview of hormonally mediated behaviors including an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas such as biology psychology psychiatry and neurology This third edition has been substantially restructured to include both foundational information and recent developments in the field Continuing the emphasis on interdisciplinary research and practical applications the book includes articles aligned in five main subject sections with new chapters included on genetic and genomic techniques and clinical investigations This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Comprehensive and updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields ranging from molecules to ecophysiology and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior **Acoustic Communication in Insects and Anurans** H. Carl Gerhardt,Franz Huber,2002-07-15 Walk near woods or water on any spring or summer night and you will hear a bewildering and sometimes deafening chorus of frog toad and insect calls How are these calls produced What messages are encoded

within the sounds and how do their intended recipients receive and decode these signals How does acoustic communication affect and reflect behavioral and evolutionary factors such as sexual selection and predator avoidance H Carl Gerhardt and Franz Huber address these questions among many others drawing on research from bioacoustics behavior neurobiology and evolutionary biology to present the first integrated approach to the study of acoustic communication in insects and anurans They highlight both the common solutions that these very different groups have evolved to shared challenges such as small size ectothermy cold bloodedness and noisy environments as well as the divergences that reflect the many differences in evolutionary history between the groups Throughout the book Gerhardt and Huber also provide helpful suggestions for future research *Bioacoustics* ,2008 **Communications** ,1994 *The American Naturalist* ,2006 **The Evolution of the Amphibian Auditory System** Bernd Fritzsch,1988 Based on a workshop held at the University of Bielefeld in

Germany in March 1986 this book presents the work of researchers from a diversity of fields from neuroanatomy to behavioural ecology covering the anatomy physiology and behavioural correlates of the auditory system in the vertebrate class amphibia It summarizes all aspects of the amphibian auditory system reviewing current knowledge of the structure function and evolution of this sensory system and offers new contributions to our understanding of this subject Chapters discuss amphibian phylogeny the anatomy and physiology of the peripheral auditory system the anatomy and physiology of central auditory areas specialized topics in sound localization the development of the amphibian auditory system including changes that occur during metamorphosis acoustic communication in anurans selected topics in the evolution of amphibian and vertebrate audition and others aspects *Anais Da Academia Brasileira de Ciências* Academia Brasileira de

Ciências,2003 **Brazilian Journal of Biology** ,2004 **Journal of Comparative Physiology** ,2007 **Sound Localization in Anurans** Albert Shih-hung Feng,1975 *Proceedings* ,2009 **Journal of Experimental Biology** ,2001

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