

Acoustic Communication in Insects and Anurans

H. Carl Gerhardt, Franz Huber



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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.

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