

ACOUSTIC COMMUNICATION IN INSECTS AND ANURANS 2ND EDITION



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The effect of ambient temperature on calling song power is assumed to be the result of thermal effects in the response of the acoustic system (i.e. muscle activity of the acoustic system being ...

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its acoustic communication. This manuscript compiles a comprehensive review on the acoustic communication behaviour in insects, including the behaviours associated with the insect sound of communication within the same species, prey detection, predator avoidance, and parasitic host localization. A compilation

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Acoustic Communication. Most insects detect sound with a tympanic membrane in the abdomen (e.g. grasshoppers and moths) or in the tibiae of the front legs (e.g. crickets and katydids). Mosquitoes have antennal hairs that resonate to certain frequencies of sound. But sound vibrations can also travel through solid objects, and some insects (e.g.

Acoustic Communication | ENT 425 – General Entomology

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Physiological Entomology. This part of the book will be of particular interest to insect physiologists. The next four chapters are more purely behavioural and ecological in content, Sound Localization, Causes and Consequences of Chorusing, Acoustic Competition and Alternative Tactics, and Female Choice Based on Acoustic Signals.

Acoustic communication in insects and anurans. Common

Description : This volume provides a comprehensive selection of recent studies addressing insect hearing and acoustic communication. The variety of signalling behaviours and hearing organs makes insects highly suitable animals for exploring and analysing signal generation and hearing in the context of neural processing, ecology, evolution and genetics.

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In all but one case, acoustic communication in insects functions in the context of mating: sexual advertisement, courtship, or intrasexual competition, the latter including conventional display, territorial defense, and a prelude or accompaniment to aggression (see Balakrishnan, Chapter 3).

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number: SI-15-00008 Keywords: acoustic communication courtship song eavesdropping avoidance ?eld cricket tympanate moth. The study of low-amplitude or 'soft' songs and calls has largely been limited to organisms that produce multiple call types that fall neatly into a bimodal distribution with respect to amplitude.

Stridulated soft song by singing insects

among acoustic insects. Acoustic communication is characterized by male and female duetting and male phonotaxis. The detection distance of the male signal is exceptional at about 2 km, achieved via stridulation against air-filled abdominal resonators, and exploitation of weather conditions ideal for sound transmission. In

Chapter 3 Hearing and Sensory Ecology of Acoustic

Abstract. Acoustic signalling has been extensively studied in insect species, which has led to a better understanding of sexual

communication, sexual selection and modes of speciation. The significance of acoustic signals for a blood-sucking insect was first reported in the XIX century by Christopher Johnston, studying the hearing organs...

Acoustic communication in insect disease vectors

Acoustic technology has been applied for many years in studies of insect communication and in the monitoring of calling-insect population levels, geographic distributions and species diversity, as well as in the detection of cryptic insects in soil, wood, container crops and stored products. Acoustic

Applications of acoustics in insect pest management

PDF. Introduction. Berthold Hedwig. Pages 1-3. Evolutionary and Phylogenetic Origins of Tympanal Hearing Organs in Insects. ... both inside and outside of the fascinating field of bioacoustics and aims to foster understanding of hearing and acoustic communication in insects. Keywords.

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Insect Communication . Communication may be defined as any exchange of information between individuals. For members of the Human species, it is an essential part of all social interactions. We communicate through speech, written language, sign language, body language, Braille, Morse code, and many other cultural and technological inventions.