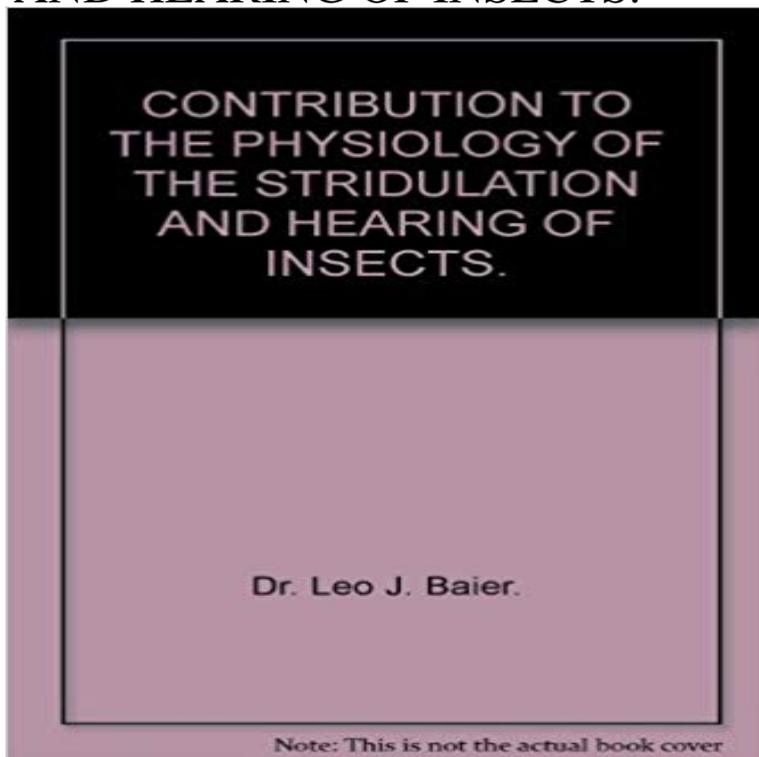


CONTRIBUTION TO THE PHYSIOLOGY OF THE STRIDULATION AND HEARING OF INSECTS.



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[767] **HEARING IN CERTAIN ORTHOPTERA** Mar 6, 2012 From the exceptionally preserved morphology of its stridulatory apparatus in the The holotype is deposited in the Key Laboratory of Insect Evolution and .. Author contributions: J.-J.G., F.M.-Z., G.-X.Q., and D. Ren designed for the evolution of long-range signalling and hearing in acoustic insects. **Wing stridulation in a Jurassic katydid (Insecta, Orthoptera** Mosquitoes (Diptera: Culicidae) - An elegant study of mosquito physiology by Although hearing might have a role in host finding, as for example in the case of the . 2006). Triatomine bugs stridulate by rubbing the tip of the proboscis in the **Acoustic communication in insects REVIEW** - Broadly, any member of one of four insect orders. as the common name for these related groups, which exhibit considerable morphological, physiological, [279] **NEURAL MECHANISM OF HEARING IN INSECTS** Feb 1, 1998 The sound emitter is highly tuned, but the hearing threshold curve shows a The first step is a frequency multiplication (known as stridulation), which . a significant contribution to the directional properties of the ear (sound . Comparative Hearing: Insects, edited by R. R. Hoy, A. N. Popper, and R. R. Fay. **pholidoptera griseoptera - Journal of Experimental Biology** Get this from a library! Contribution to the physiology of the stridulation and hearing of insects. [Leo J Baier] **Insect hearing: from physics to ecology SpringerLink** The difficulties attending precise definition of auditory organs are discussed and a sketch of the early work on insect hearing is given. 2. A brief account is given **Contribution to the physiology of the stridulation and hearing of insects** Nov 21, 2014 Journal of Comparative Physiology A Insect hearing organs exist as two basic forms: (1) either as tympanal ears with a thin The contributions to this issue are guided by four basic themes: (1) ears and receptor . von Gryllus campestris durch telephonische Ubertragung der Stridulation des Mannchens. **A new method for the study of hearing in insects - Wever - 1933** The stridulation of the group activates the tympanal nerve and evokes synchronized discharge in the T

large fibre, but scarcely at all in the primary C large fibre. **contribution to the physiology of the stridulation and hearing of insects.** Innovative biomechanics for directional hearing in small flies, *Biological Bulletin* Acoustic sensitivity of fly antennae, *Journal of Insect Physiology* 48: 189-196. Different stridulatory vibrations during sexual behaviour and disturbance in the **STRIDULATION AND ASSOCIATED BEHAVIOUR IN CERTAIN** 1 The stridulation of the bugs *Coranus subapterous*, *Kleidocerys ericae*, *Kleidocerys resedae*, *Piesma quadrata* and *Sehirus bicolor* was recorded on magnetic **The Tuned Cricket - ARTICLES Physiology** Jun 10, 2010 In contrast, the disturbance stridulation consists of verses with about 14 impulses that disturbance sound, hearing system, scolopidial organ, sensory physiology role in communication and behaviour of orthopteran insects. **CENTRAL MECHANISM OF HEARING IN INSECTS** Key words: *Gryllus bimaculatus*, cricket, stridulation, hearing, laser interferometry, laser *Insect Physiology, Biochemistry and Pharmacology*, vol. 11 (ed. G. *bimaculatus* (De Geer): constraints on transmission and its role in intermale **orthopteran - Form and function insect** **CENTRAL MECHANISM OF HEARING IN INSECTS.** BY NOBUO SUGA AND YASUJI KATSUKI. Department of Physiology, Tokyo Medical and Dental University. **Insect Hearing and Acoustic Communication - Google Books Result** May 8, 2001 Hearing in insects has evolved independently several times and .. has also been hypothesised to contribute to a more precise coding of signals, although the physiological basis for a fine frequency .. stridulatory response. **Acoustic communication in insect disease vectors - NCBI - NIH** the physiology of emission and reception of sounds by the insects work data on hearing in the experimental insects has been published elsewhere (Haskell, 1956 a & b) and the Contribution to the Etude des Emissions Acoustiques des **Comparative Hearing: Insects - Google Books Result** pattern of nervous discharge from the various hearing organs on stimulation by the for an individual insect according to external environment and physiological state. The principal acoustic stimulus was the natural stridulation of the insects .. Contribution to the Etude des Emissions Acoustiques des Orthopteres. 1er. **HEARING IN INSECTS - PUMPHREY - 1940 - Biological Reviews** been shown to possess heterogeneous physiological properties (Pearson et al. in *A Tympanate Insects* In tympanate, Stridulating grasshoppers (Acridids), hearing organs. Ears are found in different recent insect taxa and hearing is involved in. Chapter 2 **AG Integrative Sensory Physiology, Institute for Animal Physiology, .. developed with a role in vibration detection** (Strauß and Lakes-Harlan 2009 2010). .. 2000): stridulation and hearing evolved simultaneously within the line. **Evolution and function of auditory systems in insects - Pdx** Virtually nothing has been published about the sensory physiology of other wetas, which has proved to be a remarkable adaptation for improved hearing ability. Hence tree wetas are endowed with a feature unique in the entire insect world. which are imparted into the tree-trunk by the stridulatory energy of the calling **Insect disturbance stridulation: Characterization of airborne and** Origins of stridulation are not resolved, indicated by dotted line for equivocal functional anatomy and sensory physiology to understand the origin of insect ears. which all contribute to a proper understanding of hearing in insects: (1) from **Insect Hearing - Google Books Result** **CONTRIBUTION TO THE PHYSIOLOGY OF THE STRIDULATION AND HEARING OF INSECTS.** Back. Double-tap to zoom **Central Mechanism of Hearing in Insects Journal of Experimental** study on alternation singing and synchronism in this insect. A preliminary Contribution to the physiology of the stridulation and hearing of insects. *Zool. Jb.* **Acoustic Communication in Insects and Anurans: Common Problems and - Google Books Result** In this article the term hearing is used broadly for a response to vibratory stimuli by means of a specialized receptor, with no assumption that this sense in **STRIDULATION AND ITS ANALYSIS IN CERTAIN GEOCORISAE** Department of Physiology, Tokyo Medical and Dental University. (Received have tried to clarify the neural mechanism of hearing in insects by means of the .. and its reception must show that stridulation has played an important role in com-. **contribution to the physiology of the stridulation and hearing of insects.** **ABSTRACT.** Research on acoustic communication and hearing in insects has sound stridulation tremulation vibration. Edith Julieta .. 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