



Handbook of Mammalian Vocalization, Volume 19: An Integrative Neuroscience Approach (Handbook of Behavioral Neuroscience)

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The present proposal offers an outline of the planned major Handbook on Mammalian Vocalization, which fills a clear niche existing in the science book literature and on the market. The Handbook is designed as a broad and comprehensive, but well-balanced book, written from the neuroscience point of view in the broad sense of this term. Only a few issues will be reduced, which are extensively covered in other recent book publications. The Handbook is planned in a unique way and will not directly compete with other books on the market. This well-illustrated Handbook will pay a particular attention to systematically organized details but also to the explanatory style of the text and internal cohesiveness of the content, so the successive chapters will gradually develop a consistent story without losing the inherent complexity. Studies from many species will be included, however, rodents will dominate, as most of the brain investigations were done on these species.

The leading idea of the Handbook is that vocalizations evolved as highly adaptive specific signals, which are selectively picked up by the brain. The brain serves as a receptor and behavioural amplifier. Brain systems will be described, which allow vocal signals rapidly changing the entire state of the organism and trigger vital biological responses, usually also with accompanying emission of vocalizations. Integrative brain functions leading to vocal outcome will be described, along with the vocalization generators and motor output to larynx and other supportive motor subsystems. The last sections of the Handbook will explain bioacoustic structure of vocalizations, present understanding of information coding, and origins of the complex semiotic/ semantic content of vocalizations in social mammals.

The Handbook is thought as a major source of information for professionals from many fields, with neuroscience approach as a common denominator. The handbook is planned to provide consistent and unified understanding of all major aspects of vocalization in a monographic manner, and at the same time, to give an encyclopaedic overview of major topics associated with vocalization from molecular/ cellular level to behavior and cognitive processing. It is planned to be written in a strictly scientific way but clear enough to serve not only for specialized researchers in different fields of neuroscience but also for academic teachers of neuroscience, including behavioural neuroscience, affective neuroscience, clinical neuroscience, neuroethology, biopsychology, neurolinguistics, speech pathology, and other related fields, and also for research fellows, graduate and other advanced students, who widely need such a source publication.

Features

The first comprehensive handbook on what we know about vocalization in Mammalians

Benefits

Currently the information on this topic is dispersed over journal articles and book chapters across a number of journals and books with different focus. The handbook will provide the researcher interested in animal and human communication, as well as the researcher interested in the control of motor systems by the brain finally with a comprehensive reference on the topic. The handbook will have great influence in providing for the first time a bridge from information on animal communication and its nervous system control to the

neural control of language and language development in the human.

Features

Carefully edited, the handbook provides an integrated overview of the area

Benefits

Instructors and students will find this handbook a useful background information in courses of animal and human communication, speech and language, the neuroethology of sound production and sound perception, and similar

Features

International list of highly regarded contributors, including Jaak Pankseep (Washington State University), David McFarland (Oxford), John D. Newman (NIH ? Unit on Developmental Neuroethology), Gerd Poeggel (Leipzig), Shiba Keisuke (Chiba City, Japan), and others, tightly edited by a single, well regarded editor who has edited a special issue in Behavioral Brain Research on the topic before.

Benefits

Complete overview with contributions from the leading researchers from eleven countries in North America, Europe, Japan and Australia, presented in an integrated, tightly edited book.

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Christopher Hartwick:

Is it you who having spare time then spend it whole day by means of watching television programs or just laying on the bed? Do you need something new? This Handbook of Mammalian Vocalization, Volume 19: An Integrative Neuroscience Approach (Handbook of Behavioral Neuroscience) can be the response, oh how comes? The new book you know. You are consequently out of date, spending your spare time by reading in this brand-new era is common not a geek activity. So what these guides have than the others?

Naomi Taylor:

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