

# Neurobiology of Cognition (Cognition Special Issue) by Peter D. Eimas, Albert M. Galaburda, Nancy Fraser



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**The six essays in this book focus on the empirically answerable issue of whether and to what extent it is possible to explain observations about the mind in terms of observations about the brain.**

Neurobiologists and cognitive scientists agree that there is a need for a biologically consistent and realistic description of human cognition. The six essays in this book focus on the empirically answerable issue of whether and to what extent it is possible to explain observations about the mind in terms of observations about the brain. They provide wide-ranging examples of this exciting, ongoing endeavor to provide a neurobiology of cognition from grand scheme attempts to explain the full extent of human cognition, through an examination of the functional structures for echolocation in the bat and the possibilities for its neuronal instantiation, to the cellular and molecular structures of memory and learning.

**Contents** Some Agenda Item for a Neurobiology of Cognition: An Introduction, *Peter D. Eimas, Albert M. Galaburda* • Time-Locked Multiregional Retroactivation: A Systems-Level Proposal for the Neural Substrates of Recall and Recognition, *Antonio R. Damasio* • Neuronal Models of Cognitive Functions, *Jean-Pierre Changeux, Stanislas Dehaene* • Seeking the Neurobiological Bases of Speech Perception, *Joanne L. Miller, Peter W. Jusczyk* • Perception and its Neuronal Mechanisms, *Richard Held* • A View of the World Through the Bat's Ear: The Formation of Acoustic Images in Echolocation, *James A. Simmons* • The Neurobiology of Learning and Memory, *Carl W. Cotman, Gary S. Lynch*



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