

Principles of Neural Science, Fifth Edition (Principles of Neural Science (Kandel))

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Now updated: the definitive neuroscience resource—from Eric R. Kandel, MD (winner of the Nobel Prize in 2000); James H. Schwartz, MD, PhD; Thomas M. Jessell, PhD; Steven A. Siegelbaum, PhD; and A. J. Hudspeth, PhD

A Doody's Core Title for 2017!

900 full-color illustrations

Deciphering the link between the human brain and behavior has always been one of the most intriguing—and often challenging—aspects of scientific endeavor. The sequencing of the human genome, and advances in molecular biology, have illuminated the pathogenesis of many neurological diseases and have propelled our knowledge of how the brain controls behavior.

To grasp the wider implications of these developments and gain a fundamental understanding of this dynamic, fast-moving field, *Principles of Neuroscience* stands alone as the most authoritative and indispensable resource of its kind.

In this classic text, prominent researchers in the field expertly survey the entire spectrum of neural science, giving an up-to-date, unparalleled view of the discipline for anyone who studies brain and mind. Here, in one remarkable volume, is the current state of neural science knowledge—ranging from molecules and cells, to anatomic structures and systems, to the senses and cognitive functions—all supported by more than 900 precise, full-color illustrations. In addition to clarifying complex topics, the book also benefits from a cohesive organization, beginning with an insightful overview of the interrelationships between the brain, nervous system, genes, and behavior. *Principles of Neural Science* then proceeds with an in-depth examination of the molecular and cellular biology of nerve cells, synaptic transmission, and the neural basis of cognition. The remaining sections illuminate how cells, molecules, and systems give us sight, hearing, touch, movement, thought, learning, memories, and emotions.

The new fifth edition of *Principles of Neural Science* is thoroughly updated to reflect the tremendous amount of research, and the very latest clinical perspectives, that have significantly transformed the field within the last decade.

Ultimately, *Principles of Neural Science* affirms that all behavior is an expression of neural activity, and that the future of clinical neurology and psychiatry hinges on the progress of

neural science. Far exceeding the scope and scholarship of similar texts, this unmatched guide offers a commanding, scientifically rigorous perspective on the molecular mechanisms of neural function and disease—one that you'll continually rely on to advance your comprehension of brain, mind, and behavior.

FEATURES

- >> The cornerstone reference in the field of neuroscience that explains how the nerves, brain, and mind function
- >> Clear emphasis on how behavior can be examined through the electrical activity of both individual neurons and systems of nerve cells
- >> Current focus on molecular biology as a tool for probing the pathogenesis of many neurological diseases, including muscular dystrophy, Huntington disease, and certain forms of Alzheimer's disease
- >> More than 900 engaging full-color illustrations—including line drawings, radiographs, micrographs, and medical photographs clarify often-complex neuroscience concepts
- >> Outstanding section on the development and emergence of behavior, including important coverage of

McGraw-Hill authors represent the leading experts in their fields and are dedicated to improving the lives, careers, and interests of readers worldwide

Other Books

The Oxford Handbook of Philosophical Methodology. This is the most comprehensive book ever published on philosophical methodology. A team of thirty-eight of the world's leading philosophers present original essays on various aspects of how philosophy should be and is done. The first part is devoted to broad traditions and approaches to philosophical methodology (including logical empiricism, phenomenology, and ordinary language philosophy). The entries in the second part address topics in philosophical methodology, such as intuitions, conceptual analysis, and transcendental arguments. The third part of the book is devoted to essays about the interconnections between philosophy and neighbouring fields, including those of mathematics, psychology, literature and film, and neuroscience.

Neuroscience and Moral Reasoning: A Note on Recent Research. *Philosophy & Public Affairs*, 37(4), 330-45. Kandel, E. R., Schwartz, J., Jessell, T., Siegelbaum, S., and Hudspeth, A.J. (2012). *Principles of Neural Science*, Fifth Edition.