

Fundamental Neuroscience

SECOND EDITION

Edited by

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Praise for the First Edition

"...This remarkable textbook is laid out in seven sections, covering in turn cellular and molecular neuroscience, nervous system development, sensory systems, motor systems, regulation of the body by the brain, and finally, behavioral and cognitive aspects of higher brain function. The origin of the book is significant... remarkable collection of both color and black-and-white illustrations... a considerable achievement..."

—Richard G.M. Morris in *Nature Neuroscience*

"Neuroscience is a broad field built upon concerted activities of numerous heterogeneous disciplines, and continuous efforts of integration are imperative. **Fundamental Neuroscience** represents such efforts and helps readers to comprehend the whole scope of neuroscience, a field which is rapidly growing in many directions, including clinical research and application."

—Masao Ito, M.D., Ph.D.,

Riken Brain Science Institute, Saitama, Japan

"The presentation of material is clear, well-focused, up-to-date and magnificently illustrated with excellent figures, tables and wonderful molecular diagrams. It excels in providing a neuroscientific basis for clinical neurological diseases. I found it to be a superb text of interdisciplinary neuroscience."

—Roger N. Rosenberg, M.D. Zale Distinguished Chair and Professor of Neurology, University of Texas, Southwestern Medical Center at Dallas

This updated second edition of the highly successful textbook **Fundamental Neuroscience**, builds on the strengths of the first edition by expanding the existing sections, providing better cross-referencing and a more cohesive presentation of the information. The thoroughly revised text features over 25% new material including completely new chapters, illustrations, and a CD-ROM containing all the figures from the text. More concise and manageable than the previous edition, this book has been retooled to better serve its audience in the neuroscience and medical communities.

Key Features

- Logically organized into 7 sections, with uniform editing of the content for a "one-voice" feel throughout all 54 chapters
- Includes numerous text boxes with concise, detailed descriptions of specific experiments, disorders, methodological approaches, and concepts
- Well-illustrated with over 850 full color figures, also included on the accompanying CD-ROM



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