

## From Neuron to Brain: A Cellular and Molecular Approach to the Function of the Nervous System, Fourth Edition

*By John G. Nicholls, A. Robert Martin, Bruce G. Wallace, Paul A. Fuchs*

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In the 25 years since *From Neuron to Brain* was first published, the authors' aim has remained constant—to describe how nerve cells go about their business of transmitting signals, how the signals are put together, and how, out of this integration, higher functions emerge. The new Fourth Edition, while maintaining this focus, has been completely reformatted and updated.

The emphasis, as before, is on experiments, and on the way they are carried out. Using a narrative approach, the authors follow a line from the original inception of a new idea to an account of research being done today. The wealth of new facts, techniques, and concepts, however, presented a challenge in keeping the book to a manageable size. Inevitably, the authors have had to delete descriptions of certain classical experiments.

Largely in response to readers' comments, elements of format and presentation have been changed for this new edition—more headings have been introduced, the paragraphs are shorter, and the illustrations, now in full color, have been clarified. As in previous editions, references are cited throughout the text, and appendices are provided to help readers unfamiliar with the nervous system deal with essential facts and definitions.

Intended for use in upper-level undergraduate, graduate, psychology, and medical school Neuroscience courses, *From Neuron to Brain* will be of interest to anyone, with or without a specialized background in biological sciences, who is curious about the workings of the nervous system. It presents a readable and coherent account of how cellular and molecular approaches can provide insights into the workings of the brain.

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### Review

"From Neuron to Brain has no peer as a comprehensive, yet concise and readable, introduction to the principles of functional neuroscience. This Fourth Edition continues to provide fresh, elegantly lucid explanations along with beautiful illustrations that perfectly complement the written text. The coverage is broad, deep and scholarly. Beginner and senior scientist alike will want to own and savor this book." --*Denis Baylor, Stanford University School of Medicine*

### About the Author

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