

Cellular and Molecular Neurophysiology, Fourth Edition

By Constance Hammond

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Cellular and Molecular Neurophysiology, Fourth Edition, is the only up-to-date textbook on the market that focuses on the molecular and cellular physiology of neurons and synapses. Hypothesis-driven rather than a dry presentation of the facts, the book promotes a real understanding of the function of nerve cells that is useful for practicing neurophysiologists and students in a graduate-level course on the topic alike.

This new edition explains the molecular properties and functions of excitable cells in detail and teaches students how to construct and conduct intelligent research experiments. The content is firmly based on numerous experiments performed by top experts in the field

This book will be a useful resource for neurophysiologists, neurobiologists, neurologists, and students taking graduate-level courses on neurophysiology.

- 70% new or updated material in full color throughout, with more than 350 carefully selected and constructed illustrations
- Fifteen appendices describing neurobiological techniques are interspersed in the text

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Editorial Review

Review

"This is an excellent work on the cellular and molecular physiology of nerve cells. I would highly recommend it for universities, neuroscience libraries, and physiology departments. Score: 100 - 5 Stars"--**Doody's,** ***Cellular and Molecular Neurophysiology, Fourth Edition***

Reviews for the previous edition:

"In its third internationally acclaimed edition, this textbook provides an unrivaled account of the basic foundations of molecular and cellular neurophysiology. For those of us who were inclined to believe that the unprecedented development of neuroscience made neurophysiology disposable, Constance Hammond proves us with conviction and elegance that this is just not the case!"--Dr. Robert Dantzer, Professor of Psychoneuroimmunology, Integrative Immunology and Behavior Program University of Illinois at Urbana-Champaign "More than any similar volume that I have come across in recent years, this one has the potential of luring students of neuroscience and even students from other fields to build a career in neurophysiology."--György Buzsáki, M.D., Ph.D., Board of Governors Professor, Center for Molecular and Behavioral Neuroscience, Rutgers University

From the Back Cover

This new, thoroughly revised fourth edition is the only current, established and authoritative text focusing on the cellular and molecular physiology of nerve cells. Understanding the functioning of the neuron, the basic cell of the central nervous system requires a clear understanding of the cellular and molecular physiology of the neuron. The book is hypothesis driven rather than just presenting the facts, and the content is firmly based on numerous experiments performed by the top experts in the field. While the book does cover the important facts, it also presents the background for how researchers arrived at this knowledge to provide a context for the field. It teaches not only how excitable cells work in detail, but also how to construct and conduct intelligent research experiments. This book promotes a real understanding of the function of nerve cells that is useful for practicing neurophysiologists and students in a graduate-level course on the topic alike.

About the Author
Constance Hammond is an INSERM director of research at the Mediterranean Institute of Neurobiology. A renowned Parkinson's disease investigator, in 2012 she became a Chevalier of the Légion d'Honneur in recognition for her services to scientific communication. Studying biology at the University of Pierre and Marie Curie and the Ecole Normale Supérieure in Paris she completed her thesis in neurosciences at the Marey Institute in Paris, directed by Prof. D. Albe-Fessard. Guided by her curiosity and her constant desire to learn, she changed lab and research domains several times. With the knowledge of other systems and the mastering of other techniques she finally came back to her first and preferred subject of research; the role of the subthalamic nucleus in the basal ganglia system in health and Parkinson's disease.

After many years of lecturing neurobiology to biology and psychology students it became apparent that

students were in need of a book to help understand the basic principles of cell electrophysiology. Discussions with Philippe Ascher convinced her that the best way to approach the subject was to explain ionic currents and potential changes in terms of single channels and unitary currents, describing pioneering neurobiological experiments. This first book "Neurobiologie Cellulaire" (written in French with her colleague Danièle Tritsch) appeared in 1990. Its immediate success inspired her to completely revise the book content and publish it in English giving it to a larger audience; Appearing in 1996 the fist edition of "Cellular and Molecular Neuroscience" was born.

Users Review

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