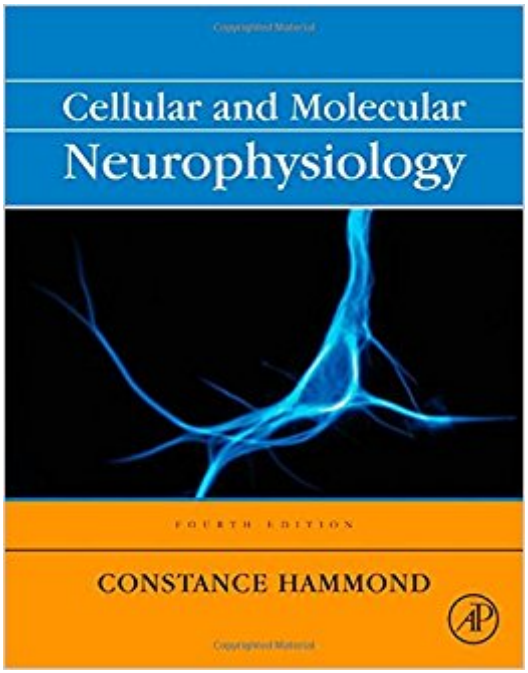
# Cellular And Molecular Neurophysiology, Fourth Edition



## Synopsis

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 illustrationsFifteen appendices describing neurobiological techniques are interspersed in the text

## Book Information

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## Customer Reviews

"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."--GyÃ¶rgy BuzsÃ¡ki, M.D., Ph.D., Board of Governors Professor, Center for Molecular and Behavioral Neuroscience, Rutgers University

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.

good

Very useful, and interesting too.

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