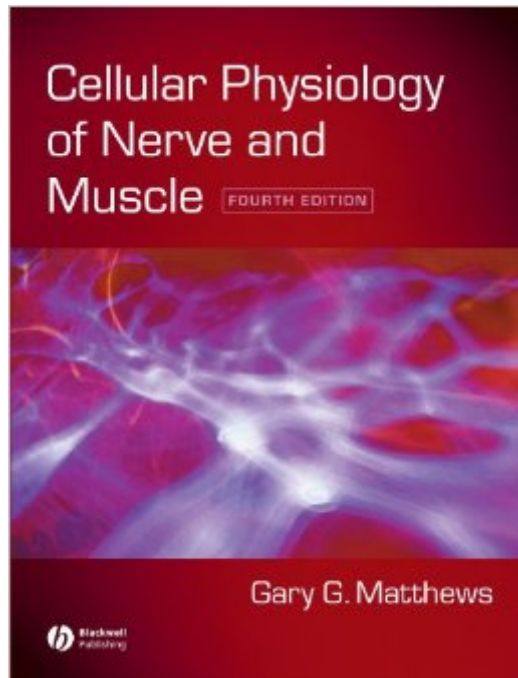


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# Cellular Physiology Of Nerve And Muscle



## Synopsis

Cellular Physiology of Nerve and Muscle, Fourth Edition offers a state of the art introduction to the basic physical, electrical and chemical principles central to the function of nerve and muscle cells. The text begins with an overview of the origin of electrical membrane potential, then clearly illustrates the cellular physiology of nerve cells and muscle cells. Throughout, this new edition simplifies difficult concepts with accessible models and straightforward descriptions of experimental results. An all-new introduction to electrical signaling in the nervous system. Expanded coverage of synaptic transmission and synaptic plasticity. A quantitative overview of the electrical properties of cells. New detailed illustrations.

## Book Information

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Average Customer Review: 4.8 out of 5 stars [See all reviews](#) (9 customer reviews)

Best Sellers Rank: #203,688 in Books (See Top 100 in Books) #76 in [Books > Medical Books > Basic Sciences > Cell Biology](#) #132 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Neuroscience](#) #216 in [Books > Medical Books > Basic Sciences > Microbiology](#)

## Customer Reviews

What could be worse than sitting in a lecture room without understanding the lecture material and desperately looking for a reference book that will lead you through the topics carefully? Sounds familiar, isn't it? Well, here is a book deserved to be mentioned. As a medical student, I have come across at least ten textbooks in cell physiology. Many of them are written without bearing in mind who their audiences are. However, "Gary Matthews'; Cellular Physiology of Nerve and Muscle" has approached the topics in the student's shoes and talked OUR LANGUAGE. Instead of throwing you the formulae, he would try to take you through the idea behind it such as how they are derived and answers your "WHYS". For instance, he takes his reader step by step to how the membrane potential is determined - really impressive. A little bit of understanding in basic biology, chemistry

and physics would allow you read through the book comfortably. It is true that this book is aiming at a beginner group; it is however, a fantastic teaching tool for all lecturers (to draw examples) and those who would like to fully understand the fundamental science about synapses and neurotransmission.

Best book for understanding details of neurophysiology and electrophysiology. As a neuroscience student I definitely recommend this book to those seeking for a better understanding in mechanism taking place for an action potential to be generated and conducted in the nervous system.

Easy to read, easy to understand, easy to follow. 3 main aspects of this wonderful book yet very rich in its contents. My appreciation goes to the fact that Gary Matthews is able to turn deep information about nerves and muscle cells in a way that we feel a PhD. about the subject. Very clever the way he starts every chapter making us feel we already knew all that stuff anyway it is not so.

The book came very quickly and I am very happy that the book is filled with diagrams and pictures to better understand the material. Nicely done.

This book is written to be very understandable. It takes you through everything slowly building up to more difficult concepts.

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Cellular Biology: Experimental Approaches to Cellular Processes and Molecular Medicine  
Bioelectrochemistry IV: Nerve Muscle Function-Bioelectrochemistry, Mechanisms, Bioenergetics and Control (Nato Science Series: A:)  
Renal Physiology: Mosby Physiology Monograph Series (Mosby's Physiology Monograph)  
Anatomy and Physiology Study Guide: Key Review Questions and Answers with Explanations (Volume 3: Nerve Tissue, Spinal Nerves & Spinal Cord, Cranial Nerves & Brain, Neural Integrative, Motor & Sensory Systems, Autonomic Nervous System, Special Senses)  
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