



Topic 2: Cellular Physiology of Nerve and Muscle (Part 1)

Required Readings:

- *Plasma Membrane: Chapter 3: p. 63-81*
- *Neurons: Chapter 11: p.394 (neurons) – 397 (myelination); p. 400 – 420*
- *Muscle: Chapter 9: p. 279 - 314*

Cellular Physiology Of Nerve And Muscle

John Martin Littlejohn



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Cellular Physiology of Nerve and Muscle Gary G. Matthews, 2002-11-22 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

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Cellular Physiology of Nerve & Muscle Gary G. Matthews, 1986 This book is an undergraduate text on the physiology of nerve and muscle cells It is intended for use in courses on cell nerve and muscle physiology neurobiology and human or general physiology The primary focus is on volume maintenance the origin of resting and action potentials synaptic physiology and excitation contraction coupling

Cell Physiology Source Book Nicholas Sperelakis, 2012-12-02 This authoritative book gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The Third Edition contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria the regulation of cell division and programmed cell death Completely revised and updated includes 8 new chapters on such topics as membrane structure intracellular chloride regulation transport sensory receptors pressure and olfactory taste receptors Includes broad coverage of both animal and plant cells Appendixes review basics of the propagation of action potentials electricity and cable properties Authored by leading experts in the field Clear concise comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics

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