

(Download) Cellular Physiology of Nerve and Muscle

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Gary G. Matthews

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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.

From the Back CoverCellular 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. The fourth edition of *Cellular Physiology of Nerve and Muscle* features new material including: 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