

Neurons In Action 2: Tutorials and Simulations using NEURON

By John W. Moore, Anne E. Stuart

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Neurons in Action 2 is the second version of a unique CD-ROM-based learning tool that combines hyperlinked text with NEURON simulations of laboratory experiments in neurophysiology. Version 2 features nine new tutorials introducing new channel types, single-channel simulations, and a redesigned interface. Neurons in Action's moving graphs provide insight into nerve function that is simply not possible with conventional, static text and figure presentations. Students discover how changing parameters such as neuronal geometry, ion concentrations, ion channel densities, and degree of myelination affects the generation of action potentials, synaptic potentials, and the spread or propagation of voltages within a neuron. For instructors, minimovies of NEURON simulations are provided for use in lectures.

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Editorial Review

Review

In this carefully designed book, John Moore and Ann Stuart demystify the basics of nerve function through a series of logical and well-written text-based tutorials with accompanying computer simulations... The computer-based format is ideal for professors and teaching assistants to use in the classroom. The inclusion of classic experimental papers on the CD also makes the experience somewhat of a history lesson as well... The entire simulation environment is contained on the CD, can be easily installed locally on a PC or Mac, and runs quickly using Mozilla Firefox... Overall, Moore and Stuart certainly have created a highly recommendable method for learning and teaching neurophysiology. Readers can now, from the comfort of their own homes, finally vanquish those former physiology demons in a fun and interactive manner and learn a bit of history, too. --Arjun V. Masurkar, Yale Journal of Biology and Medicine

About the Author

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