

BACKYARD BRAINS

Workshop

Neurons *in* Action

Tutorials and Simulations using NEURON

WHERE: Universidad Central del Caribe
Bayamon, PR



WHEN: August 10-14, 2015

TIME: 9 AM - 3 PM, daily

COST: FREE (Limited to 30 participants)

Participants: open to undergraduates, graduate students, postdoctoral fellows and faculty of any academic institution

The brain is a complex system with the neuron as its fundamental unit. What is an action potential and how is it generated? How does the stochastic nature of a single ion channel relate to and form the basis of the action potential? What is the organization of action potentials that underlie behavior?

This workshop will introduce Neurons in Action (NIA2), which bring the “e-phys” lab to the computer with a set of interactive tutorials that will answer these basic questions. Backyard Brains is a highly accessible electrophysiological experiment kit that will allow students to explore the interplay between the senses and the resulting action potentials within simple organisms.

Backyard Brains and NIA2 will be provided and students will bring their own laptops to each class.

Faculty:
Rhonda Dzakpasu, PhD, Georgetown University
Steve Zottoli, PhD, Williams College

Registration deadline: July 10, 2015 [Register Here](#)

Space is limited

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