

PHYSIOLOGY &  
MEMBRANE BIOLOGY  
SCHOOL OF MEDICINE

## IN-HOUSE SEMINAR SERIES

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Physiology & Membrane Biology

### “EARLY CALCIUM-DEPENDENT NEURONAL ACTIVITY AND ITS ROLE DURING NERVOUS SYSTEM”

Development of the nervous system requires cell proliferation, migration, differentiation, and synapse formation to occur. It is a very complex process and although great advances in unraveling many of its features have been made, there are still aspects that remain elusive. Calcium-dependent neuronal activity has been shown to be present early during development, prior to synapse formation, suggesting electrical activity plays a role in nervous system development.

Our lab is interested in understanding how spontaneous calcium-dependent activity is established and what are the functional consequences of its presence during spinal cord development. By using *Xenopus laevis* as a model system we are currently investigating the interactions between

calcium dynamics and other developmental cues

FRIDAY, October 19, 2007  
4:00 PM  
TUPPER HALL ROOMS 2419A & 2419B

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