

Timothy Adam Zolnik

Curriculum Vitae

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Project themes: elucidating the principles of integration and non-linear signaling among complex dendrites of cortical neurons, and synaptic interactions in cortical networks.

Methods: in vitro electrophysiology, optogenetics, calcium imaging, uncaging, pharmacology

EDUCATION

2012 Ph.D., neuroscience Brown University, Department of Neuroscience, Providence, RI
Advisor: Barry W. Connors, Ph.D.

2005 M.S., biology University of Hartford, Department of Biology, West Hartford, CT
University of Connecticut Health Center, Department of Neuroscience, Farmington, CT
Advisor: Douglas L. Oliver, Ph.D. (U. of Connecticut)

2003 B.S. physics Southern Connecticut State University, Department of Physics, New Haven, CT

PUBLICATIONS / ABSTRACTS

Zolnik TA and Connors BW. (submitted) Maturation of thalamic neurons and synapses.

Zolnik TA and Connors BW. (2011) Optogenetic investigation of glutamatergic inputs and GABAergic outputs of thalamic reticular nucleus neurons. Soc Neurosci Abstr 37:496.03.

Connors BW, **Zolnik TA**, Lee S-C. (2010) Enhanced Functions of Electrical Junctions. Neuron 67: 354-357

Zolnik TA and Connors BW. (2010) Normal development of a thalamic inhibitory network depends on connexin36. Soc Neurosci Abstr 36:42.14.

Zolnik TA and Connors BW. (2009) Maturation of GABAergic synapses in the thalamic reticular and ventrobasal nuclei and their dependence on connexin36. Soc Neurosci Abstr 35:233.9.

Zolnik TA and Connors BW. (2008) Electrical and GABAergic synapses in the thalamic reticular nucleus: postnatal development and dependence on Cx36. Soc Neurosci Abstr 34:734.5.

AWARDS / FELLOWSHIPS

2007 – 2010 Predoctoral NRSA fellowship, NIH (NS060448)

2005 Robert B. Wallace Memorial Award for Excellence in Neuroscience Research