The Lab for Understanding Neurons

Biography

Research

- Information processing and computation in cortical neurons
- Synaptic learning and plasticity rules in dendritic trees
- Design principles for synaptic inhibition in dendrites (New)
- Functional modules in neuronal sensory processing (New Max Planck Center at Hebrew University, with T. Bonhoeffer, A. Borst, B. Sakmann (MPI) and A. Mizrahi, H. Sompolinsky, ELSC)
- Processing of visual and somatosensory information in realistic cortical networks (with K. Martin and B. Sakmann)
- Computer simulations of cortical circuits (with H. Markram)

- Our Research is supported by generous grants from the ONR, NIMH, BSF, and the ISF and by the Blue Brain Project.

ELSC Friends

It is now widely accepted that deciphering the enigma of the brain is the most challenging intellectual endeavor of the 21st century, "The Century of the Brain" - Join our quest and become a friend of ELSC.

Studying at ELSC

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.
The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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