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)

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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.

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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