The Lab for Understanding Neurons

Biography
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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 [2], NIMH [3], BSF [4], and the ISF [5] and by the Blue Brain Project [6]

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UPCOMING EVENTS

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Studying at ELSC

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

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The Building
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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