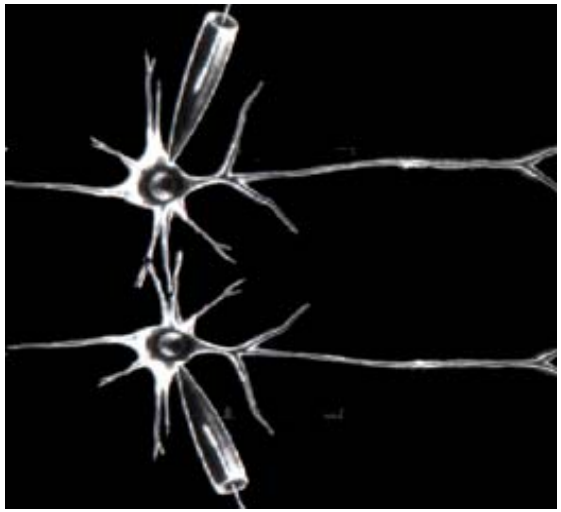
LISC
LABORATORY FOR INTELLIGENT SYSTEMS AND CONTROLS

Spiking Neural Network (SNN) Training

On-going Research and Collaborations:

- **"Analysis and Design of Cultured Neuronal Networks for Adaptive and Reconfigurable Control,"** 2009-2014, NSF. Amount: $429,909.
  PI: S. Ferrari, co-PIs: C. Henriquez, A. VanDongen.

- **"Collaborative Research: Memristor-Based Adaptive Critic Design for Sensorimotor Learning and Control,"** 2012-2015, NSF. Amount: $480,000.
  PI: S. Ferrari, co-PI: P. Mazumder.



Future Research Directions:

- Brain-machine interfaces (BMIs).
- Neuroprosthetics.
- Reverse-engineering insect sensorimotor system.
- Develop "virtual" insect, and bio-inspired robots.

Future Funding:

- NIH, NSF, DoD.