Microcomponents prototyping for biomedical applications

Program:

- 1. Overview of microfabrication techniques.
- 2. Basic operating principles of some simple micro-scale components/devices.
- 3. What you need to know about how to make micro-scale elements.
- 4. Examples of electrical, optical, micromechanical and microfluidic componentes.
- 5. How to design your own microdevice for neuroscience and biomedical application in general.
- 6. What is computer-aided-design CAD and why is it is not simply a drawing program.
- 7. Introduction to 3D modeling and printing techniques.
- 8. Visiting micro/nanolabs available at CTI, CNPEM & Unicamp.
- 9. How to make sure you will get what you want simulating your device.