

Neuro Design Suite

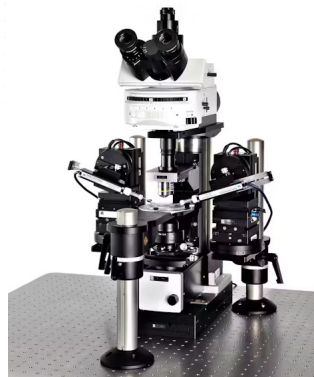
The Neuro Design Suite at IBB is a state-of-the-art core facility for neuroscience research. It consists of three major rigs allowing researchers to perform manual and/or automated in vitro, in vivo patch clamping, and in vivo extracellular electrophysiology recordings.

Core Capabilities

- Intracellular single cell electrophysiology recording
- Extracellular electrophysiology recording
- Microelectrode fabrication
- Viral (nano-particle) injection
- Cell Cultures

Core Equipment

- Axon MultiClamp 700B Amplifier
- Slice Scope Pro 1000
- Digidata 1550A Digitizer
- TDT 128 Channel Neurophysiology System
- pE-340 fura (Ca²⁺ imaging system)
- Sutter P-2000 puller



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Location:

Petit Institute,
Room 2108



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Equipment Spotlight: Sutter P-2000 Puller

The **Sutter P-2000** micropipette puller represents a significant advance in the technology of fabrication of micropipettes, optical fiber probes and nano-spray tips. P2000 integrates a CO₂ laser-based heat source with the technology derived from extensive experience with conventional pullers.

Main features of Sutter P-2000 (SU P2000) Glass Puller:

- Capable of pulling quartz, borosilicate and aluminosilicate glass
- Pulls electrodes with tip diameters smaller than 0.03 μ m
- Preprogrammed sample programs for intra-cellular and patch pipettes

