Title (tentative): Mouse Brain slices coupled to MEA devices for electrophysiological recordings and stimulation for studying epilepsy

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### Description

**Motivation and application domain**

Electrophysiology, Neuroengineering, Neuroscience, Data Analysis, MEA chips.

**General objectives and main activities**

Experiments with acute brain slices from wild-type and knock-out mouse (epileptic phenotype). Set-up and experiment execution with the support of PhD student and staff. Data analysis and discussions with staff and thesis advisors.

**Training Objectives (technical/analytical tools, experimental methodologies)**

MEA techniques, Brain slices techniques, Data analysis.

**Place(s) where the thesis work will be carried out:** Neuroengineering Lab @DIBRIS; Neuroscience Lab@DIMES

### Additional information

**Maximum number of students:** 2