**Ex Vivo Electrophysiology Case Report Form**

Date that this CRF was filled out:

Name of Laboratory/PI:

Name of person filling out CRF:

Project name/Identifier:

Animal ID or Study ID (as applicable):

**Type of model system:**

**Type of study:**

* Anesthetized / Non-anesthetized
* Endpoint of study
* Pre-defined time point
* Death
* Other

|  |  |
| --- | --- |
| **CDE** | **DATA COLLECTED** |
| Type of electrophysiology | ☐ Patch clamp☐ Intracellular☐ Extracellular☐ Individual recording☐ Oxygen sensing |
| **Comments:** |
| **Whole Cell Electrophysiology** |
| **Tissue Preparation:** |  |
| Was the animal anesthetized? | ☐ Yes☐ No☐ Unknown |
| Sectioning equipment |  |
| Cutting solution |  |
| Temperature during sectioning (oC) |  |
| Region of interest |  |
| Slice orientation | ☐ Horizontal☐ Vertical☐ Coronal☐ Sagittal |
| Slick thickness |  |
| Method of determining tissue health |  |
| Slice incubation time |  |
| Recording temperature |  |
| Intracellular solution |  |
| Extracellular solution |  |
| Recording hardware type |  |
| Recording software type |  |
| Voltage protocols |  |
| Electrode size |  |
| Resistance |  |
| Brain region of interest |  |
| How is recording location confirmed? | ☐ Visual identification of cells☐ Via Probe☐ Other |
| Software used for analysis/statistics |  |
| **Comments:** |  |
| **Imaging** |
| **Tissue preparation:** |  |
| Probe used for imaging |  |
| Equipment information-camera type |  |
| Equipment information-frame rate |  |
| Was optogenetics conducted in tandem with electrophysiology? | ☐ Yes☐ No☐ Unknown |
| Method of Stimulation | ☐ Optogenetic☐ Electrical stimulation☐ Other |
| Stimulation protocol |  |
| Brain region of interest |  |
| Type of neuron imaged |  |
| Method of confirmation | ☐ Input stimulation☐ Other |
| **Comments:** |
| **Ex Vivo Biosensing** |
| **Tissue preparation:** |  |
| Probe used for imaging |  |
| Equipment information-camera type |  |
| Equipment information-frame rate |  |
| Was optogenetics conducted in tandem with electrophysiology? | ☐ Yes☐ No☐ Unknown |
| Method of Stimulation | ☐ Optogenetic☐ Electrical stimulation☐ Other |
| Stimulation protocol |  |
| Brain region of interest |  |
| Type of neuron imaged |  |
| Method of confirmation | ☐ Input stimulation☐ Other |
| **Comments:** |
| **Analysis** |
| Software used for analysis |  |
| Animal disease/history:Were there spontaneous seizures? |  |
| How were seizures confirmed? |  |
| Were animals treated? |  |
| **Comments:** |