Neurological Variables 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:

- Mammalian systems (e.g., rodents, other mammals): _____
- Non-mammalian systems (e.g., *Drosophila*, zebrafish): _____

Type of study:

- Anesthetized: _____
- Non-anesthetized: _____

Endpoint of study:

- Pre-defined time point: _____
- Seizure-induced sudden death: _____
- Other _____

CDE	DATA COLLECTED
Background Neurological Variables	
Are neurological phenotypes present in this model?	☐ Yes ☐ No ☐ Unknown
Seizures?	☐ Yes ☐ No ☐ Unknown
Other (describe)	
Comments:	
EEG Recording Information	
Was animal anesthetized or awake?	☐ Anesthetized (Isoflurane or Ketamine/xylazine or others) ☐ Awake-fixed head ☐ Awake-freely-moving (tethered or telemetry)
Number of electrodes	
Type of electrode used	
Electrode placement	
Recording frequency (kHz)	
Recording duration	
Recording modality	☐ Wireless ☐ Wired

Type of recording	☐ AC ☐ DC (*see below)
DC recording features Electrode type	☐ Ag/AgCl (glass micropipettes fabrication [puller/glass filament/tip size and shape/fire polishing?] and solutions [pH value/osmolarity]) ☐ Platinum/iridium (resistance) ☐ Others _____
Electrode location/coordination	_____
Amplifier/digitizer sampling frequency	_____
Amplifier/digitizer sampling frequency filters	☐ Notch ☐ High-pass ☐ Low-pass
Were cardiac recordings done in parallel to brain recording (synchronized)?	☐ Yes ☐ No ☐ Unknown
Were respiratory recordings done in parallel to brain recording (synchronized)?	☐ Yes ☐ No ☐ Unknown
Video Recordings Were multiple video recordings done?	☐ Yes ☐ If yes, state number of recordings____ ☐ No ☐ Unknown
Were video recordings synchronized with electrophysiology recordings?	☐ Yes ☐ No ☐ Unknown
Frame Rate	_____
Resolution	_____
Date and time	_____
Recording Start	_____

Recording End State recording occurred in (postictal, etc.) Recording start time Recording end time Duration of recording Angle of view	_____ _____ _____ _____ _____ _____
Program used for recording and analysis Commercial software: Name of the company and the version of the software _____	Recording: ☐ CED/spike 2 ☐ DSI/Ponemah ☐ Tucker Davis/Synapse ☐ Plexon ☐ Pinnacle ☐ Open-ephys ☐ Other (provide details) _____
Open resource tool (please specify any toolboxes, libraries and packages that are used or provide the link of GitHub if customized algorithms are used)	
Data sharing plan	List details on how data will be shared and how to access data
List any machine learning tools used	
Tissue Collection and Storage	
Is tissue available for genetic confirmation and collaborative histology studies?	☐ Yes (*see below) ☐ No ☐ Unknown
*If yes, what type of tissue was collected?	☐ Preserved tissue ☐ Freshly frozen ☐ Other _____
*If yes, what amount of tissue was collected?	
How was tissue stored?	☐ -20 freezer ☐ -80 freezer ☐ Other _____
Medium used for tissue storage	☐ 4% paraformaldehyde

	☐ Anti-freezing media ☐ Other _____
List details	
Comments:	

Abbreviations: AC: Alternating current; Ag/AgCl: Silver/silver chloride; CRF: Case report form; CED/spike 2: Cambridge Electronic Design Limited recording and analysis package; DC Direct current; DSI/Ponemah: Data Sciences International Ponemah® Software; MATLAB: "Matrix Laboratory" programming and numeric computing platform; pH: Potential of hydrogen; PI: Principal investigator; R: Programming language for statistics and data visualization.

Instructions: Please check boxes where applicable. If none of the predetermined options is appropriate, use the default space to specify your answer. This form is to be filled in for one individual animal, unless otherwise specified.

Please refer to more extensive CRFs, where suitable, as developed by the ILAE/AES Joint Translational Task Force:

Report on preclinical Core CDEs
https://onlinelibrary.wiley.com/doi/10.1002/epi4.12234

Report on preclinical neurobehavioral CDEs
https://onlinelibrary.wiley.com/doi/10.1002/epi4.12236

Report on preclinical physiology CDEs
https://onlinelibrary.wiley.com/doi/10.1002/epi4.12261

Report on preclinical pharmacology model CDEs
https://onlinelibrary.wiley.com/doi/10.1002/epi4.12254

Report on preclinical EEG CDEs
https://onlinelibrary.wiley.com/doi/10.1002/epi4.12260