

Table S2. Experimental steps and animal dropout

Experiment Phase	Approximate Dropout Rate	Causes
Intrahippocampal kainic acid	33%	Status epilepticus
OptoElectrode implantation and EEG monitoring	40%	Unusable implant or EEG, unexpected death/illness
Closed-loop intervention testing	33%	Unusable optical fiber, lack of response to closed loop optogenetic seizure intervention, unexpected death/illness
Object location memory tests	25%	Side preference demonstrated during training phase, lack of exploration during testing phase, unexpected death/illness/seizure