

## **PROJECT NARRATIVE – PROJECT 1 – BIOMARKERS OF EPILEPTOGENESIS AFTER EXPERIMENTAL TRAUMATIC BRAIN INJURY**

There are currently no biomarkers to predict the development of epilepsy after traumatic brain injury. Here we propose to identify plasma, electrophysiological, and imaging biomarkers that can be used to predict epileptogenesis and the efficacy of novel treatments. We will also test whether these biomarkers derived from experimental models will predict the development of human post-traumatic epilepsy. We hope that our data will accelerate future efforts to develop antiepileptogenic therapies.