NARRATIVE – EPIBIOS4RX INFORMATICS AND ANALYTICS CORE

A fundamental challenge in discovering treatments and associated biomarkers of epileptogenesis is that this process is likely multifactorial and crosses multiple modalities. Investigators must have access to a large number of high quality, well-curated data points and study subjects in order for biomarker signals to be detectable above the noise inherent in complex phenomena like epileptogenesis, TBI, and conditions of data collection. A central platform is needed to standardize data from different centers and different modalities and to provide tools for searching, viewing, annotating, and analyzing them. The Informatics and Analytics Core (IAC) will centralize an enduring data archive with analytic tools that will allow the broader epilepsy research community to identify and validate biomarkers of epileptogenesis in images, electrophysiology, and molecular/serological/tissue studies.