

PROJECT NARRATIVE - EPIBIOS4RX OVERALL

Despite decades of research that have led to an understanding of many causes of epilepsy and yielded over fifteen new antiseizure drugs and novel non-drug therapies, there remain no treatments that prevent epilepsy, nor are there ways to identify and prove such treatments. A major obstacle to research in this area is the fact that studies from single institutions are inadequate to answer the most important questions. The Epilepsy Bioinformatics Study for Antiepileptogenic Therapy (EpiBioS4Rx) is a proposal for a large, international, multicenter Center without Walls (CWOW) to address this pressing need by using studies of animals and patients with traumatic brain injury (TBI) leading to post-traumatic epilepsy (PTE), to develop the techniques and patient populations necessary to carry out future cost effective full-scale clinical trials of epilepsy prevention therapies.