**RELEVANCE - PROJECT 1 – BIOMARKERS OF EPILEPTOGENESIS AFTER EXPERIMENTAL TRAUMATIC BRAIN INJURY**

Cost-effective development of antiepileptogenic (AEG) therapies targeted toward patients with the highest risk of epilepsy after brain insults like traumatic brain injury (TBI) is currently seriously impeded by the lack of biomarkers for epileptogenesis to enable their identification. This study aims to discover plasma molecular, electrophysiological, and imaging biomarkers in a clinically relevant animal model, which alone or in different combinations diagnose ongoing epileptogenesis with high sensitivity and specificity. These biomarkers can be used for therapy development to combat epileptogenesis after TBI.