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Neuronal Mechanisms of Unconsciousness in an Absence Seizure Model

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Despite extensive research, the fundamental question of the neuronal mechanisms underlying unconsciousness remains largely unknown. This research will examine how auditory inputs are processed in the cortex during absence seizures by recording cortical neurons during an auditory tone detection task in an awake rodent model. The results will reveal the neuronal changes in sensory input processing that underlie alterations in consciousness during absence seizures.