

FACULTY MENTOR

Andre Der-Avakian

PROJECT TITLE

Alcohol drinking monitor for rodents

PROJECT DESCRIPTION

Current methods of monitoring the amount and patterns of alcohol drinking in rodents are imprecise and labor intensive. Rodents typically drink from a plastic bottle with a metal sipper tube. This project will involve creation of a device that can detect each time a rodent licks from the sipper tube (making contact with the metal tube) and records the amount and pattern of drinking over a period of time. These data will be used to conduct preclinical research on factors that lead to alcoholism.

INTERNS NEEDED

Up to 2 students total, either BS or MS.

PREREQUISITES

None

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PROJECT TITLE

Headmount for securing EEG recording hardware on rodents

PROJECT DESCRIPTION

Recording EEG signals from awake, behaving rodents is challenging because movement creates noise in the EEG data. This project will involve creation of a removable and reusable device that will secure a wired EEG recording chip onto the head of an awake, behaving rat to allow for the measure of clean EEG signals while the animal performs cognitive tasks.

INTERNS NEEDED

Up to 2 students total, either BS or MS.

PREREQUISITES

Knowledge of 3D printing.