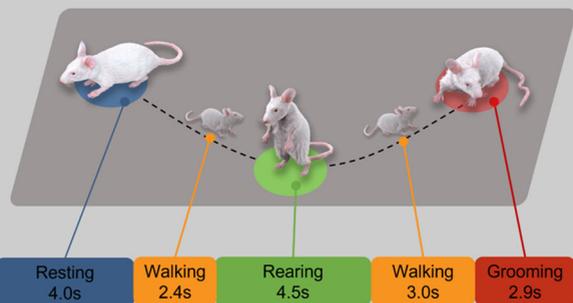
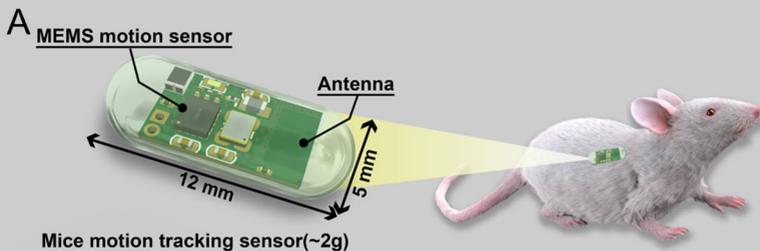
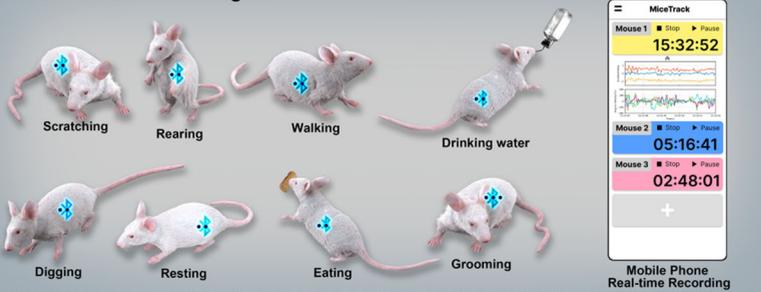


# µIMU Mice Tracking Platform

## Segmentation and Recognition



## Mice Behavior Monitoring

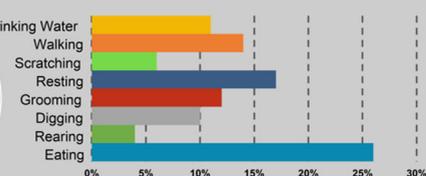


## Behavior Analysis Report

### Mouse behavior timeline



### Mouse behavior Distribution



## B

### Data Collection

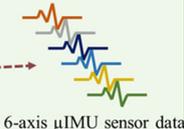
### Data Segmentation

Feature Extraction

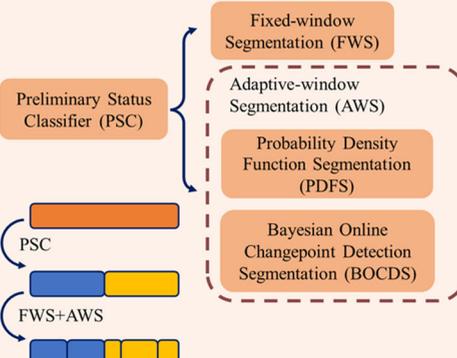
### Behavior Classification



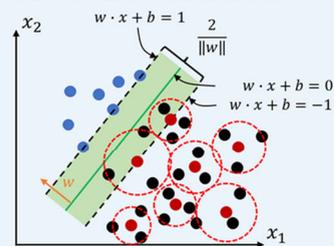
Mouse Behavior Video



## Combined Segmentation Method (CSM)



## Imbalanced Learning and Support Vector Machine Classification



- Feature Vector of Behavior A
- Feature Vector of Behavior A after Under-sampling
- Feature Vector of Behavior B