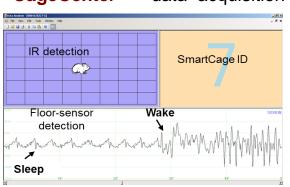




FEATURES:

- > Noninvasive multi-biosensors
- > One system multiple tests
- ➤ Up to 16 units of SmartCage run simultaneously by 1 PC
- > Window based software
- > Provide training and protocols

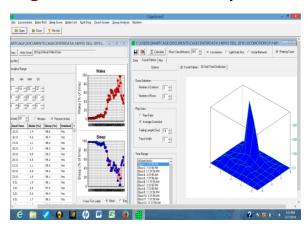
CageCenter™ - data acquisition

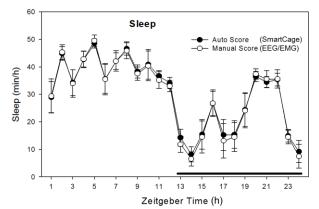


APPLICATIONS

- Higher throughput behavioral phenotyping and in vivo drug screening
- ➢ In combination with EEG/EMG and video recordings
- > Neurobehavioral toxicity study

CageCenter™ - data analysis





12 Behavioral tests by 1 SmartCage™

Behavioral Tests

- Locomotion: active time, travel distance, velocity and rearing (stand up). Position, and moving paths
- Noninvasive total sleep/wake monitoring
- Light/dark place preference and anxiety test
- Social interaction (and social memory test)
- Rotarod test in homecage
- Foot drop/fault (with locomotion)
- Feeding behavior (using a food gate)
- 8. Drinking behavior and conflict drinking (with locomotion)
- Step-through passive/active avoidance test
- 10. Tone/contextual conditioned fear test
- 11. Automated sleep deprivation
- 12. Drug (e.g., nicotine) aerosol delivery and self administration

AfaSci Research Laboratories Redwood City, California

edwood City, California www.afasci.com

For more information and quotation email: simonxie@afasci.com

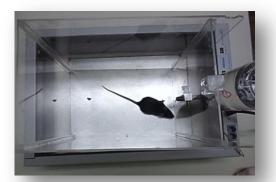
Tel: 650-995-7320



Activity/Locomotion



Sleep/Wake Circadian
One SmartCageTM



Drinking / Feeding Behaviors



Light/Dark Place Preference



Multiple Test Modules



Social Interaction



Rotarod



Automated Sleep Deprivation



Step-through avoidance Tone & contextual Fear