24 hour home cage activity and social behavior monitoring

Just put animal inside of the cage!!

Available to measure amount of activity/social behavior



Special cages designed to house up to four subjects are utilized in this test.

Each cage is equipped with a CCD camera placed over-head and captures images.

To reduce any interruptions during image capture, both water bottle and food box are fixed on the sides of the cage.

When only a single subject is housed within the cage, the software can measure the subject's distance traveled.

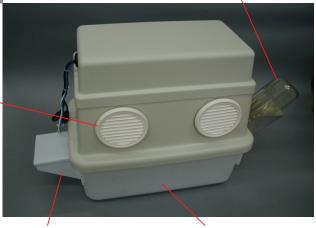
When multiple subjects are housed in the cage, the software measures the amount of activity of whole subjects. Furthermore, the software performs particle analysis to analyze whether the subjects come in contact with each other during measurement. If you have any concerns in the data, you can review saved image file.

Water bottle (Autoclavable)



Cage top: CCD Camera, White & IR LED unit
(NOT Autoclavable)

Lid of cage with vent (NOT Autoclavable)

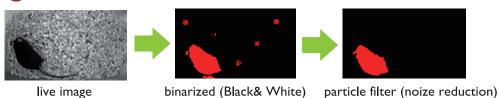




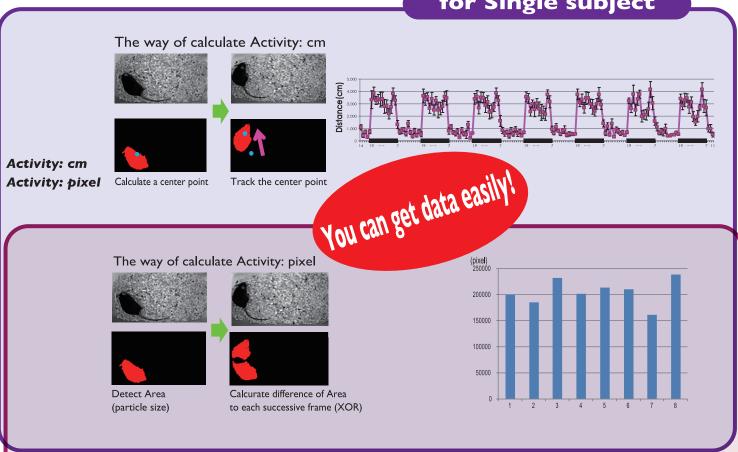
Cage (NOT Autoclavable)

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Algorithm

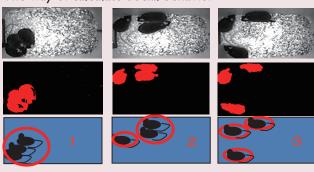


for Single subject



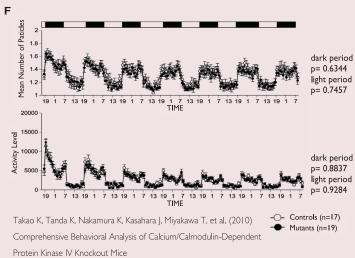
Activity: pixel Social behavior: number of particle

The way of calculate Social behavior



It shows how the subject contact by number of particle.

Social Interaction Test in Home Cage



Reference: PLoS ONE 5(3): e9460

for Multiple subjects



4-28-16 Ekoda, Nakano-ku, Tokyo 165-0022, JAPAN TEL 81-3-3389-2451 FAX 81-3-3389-2453

http://www.ohara-time.co.jp

