Resource Summary Report

Generated by SPARC SAWG on Sep 13, 2026

HomeCageScan

RRID:SCR_014253
Type: Tool

Proper Citation

HomeCageScan (RRID:SCR_014253)

Resource Information

URL: http://cleversysinc.com/?csi_products=homecagescan

Proper Citation: HomeCageScan (RRID:SCR_014253)

Description: Software used for automatic high throughput analysis of unconstrained rodent behaviors in a home cage. HomeCageScan is ideal for longitudinal studies where several animals are studied and tested over long periods. Its features include twenty-four-hour recording capabilities, statistical analysis, automatic adaptation to environmental changes (including day and night changes), and a batch?mode which allows user to run multiple videos successively without human intervention. The software can detect various behaviors ranging from feeding and urination to jumping and foraging.

Resource Type: data acquisition software, data analysis software, data processing software, software application, software resource, time-series analysis software

Keywords: automatic high throughput analysis, unconstrained rodent behavior, home cage, longitudinal study

Availability: Available for purchase

Resource Name: HomeCageScan

Resource ID: SCR_014253

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260912T195814+0000

Ratings and Alerts

No rating or validation information has been found for HomeCageScan .

No alerts have been found for HomeCageScan .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Villa AP, et al. (2026) Genetic Identification of Dopamine Neurons Required for Circadian Food Anticipatory Activity in Mice. bioRxiv : the preprint server for biology.

Zhang HL, et al. (2024) Inhibition of NKCC1 Ameliorates Anxiety and Autistic Behaviors Induced by Maternal Immune Activation in Mice. Current issues in molecular biology, 46(3), 1851.

Featherstone RE, et al. (2022) Calcium/calmodulin-dependent protein kinase II? heterozygous knockout mice show electroencephalogram and behavioral changes characteristic of a subpopulation of schizophrenia and intellectual impairment. Neuroscience, 499, 104.

Si Y, et al. (2022) Noncognitive species-typical and home-cage behavioral alterations in conditional presenilin 1/presenilin 2 double knockout mice. Behavioural brain research, 418, 113652.

Wallace CW, et al. (2021) Replacing a Palatable High-Fat Diet with a Low-Fat Alternative Heightens ?-Opioid Receptor Control over Nucleus Accumbens Dopamine. Nutrients, 13(7).

Assali DR, et al. (2021) Type 1 dopamine receptor (D1R)-independent circadian food anticipatory activity in mice. PloS one, 16(2), e0242897.

Ye M, et al. (2019) Longitudinal Functional Assessment of Brain Injury Induced by High-Intensity Ultrasound Pulse Sequences. Scientific reports, 9(1), 15518.

Zhang W, et al. (2019) Wheel Running Improves Motor Function and Spinal Cord Plasticity in Mice With Genetic Absence of the Corticospinal Tract. Frontiers in cellular neuroscience, 13, 106.

Aguayo A, et al. (2018) Sex differences in circadian food anticipatory activity are not altered by individual manipulations of sex hormones or sex chromosome copy number in mice. PloS one, 13(1), e0191373.

Assali DR, et al. (2018) Food anticipatory activity on a calorie-restricted diet is independent of Sirt1. PloS one, 13(6), e0199586.

Toossi H, et al. (2017) Homeostatic Changes in GABA and Acetylcholine Muscarinic Receptors on GABAergic Neurons in the Mesencephalic Reticular Formation following Sleep Deprivation. eNeuro, 4(6).

Toossi H, et al. (2017) Homeostatic regulation through GABA and acetylcholine muscarinic receptors of motor trigeminal neurons following sleep deprivation. Brain structure & function, 222(7), 3163.

Miranda DR, et al. (2017) Progressive Cl- channel defects reveal disrupted skeletal muscle maturation in R6/2 Huntington's mice. The Journal of general physiology, 149(1), 55.

Parker RL, et al. (2017) Deletion of lynx1 reduces the function of ?6* nicotinic receptors. PloS one, 12(12), e0188715.

Pei P, et al. (2016) Effect of electroacupuncture pretreatment at GB20 on behaviour and the descending pain modulatory system in a rat model of migraine. Acupuncture in medicine : journal of the British Medical Acupuncture Society, 34(2), 127.

Liu L, et al. (2016) Electroacupuncture Pretreatment at GB20 Exerts Antinociceptive Effects via Peripheral and Central Serotonin Mechanism in Conscious Migraine Rats. Evidence-based complementary and alternative medicine : eCAM, 2016, 1846296.

Toossi H, et al. (2016) GABA Receptors on Orexin and Melanin-Concentrating Hormone Neurons Are Differentially Homeostatically Regulated Following Sleep Deprivation. eNeuro, 3(3).

Bonin RP, et al. (2016) Epidural optogenetics for controlled analgesia. Molecular pain, 12.

Pelosi A, et al. (2015) Unilateral Lesion of Dopamine Neurons Induces Grooming Asymmetry in the Mouse. PloS one, 10(9), e0137185.

Gallardo CM, et al. (2014) Dopamine receptor 1 neurons in the dorsal striatum regulate food anticipatory circadian activity rhythms in mice. eLife, 3, e03781.