

Resource Summary Report

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AnimalTracker

RRID:SCR_014397

Type: Tool

Proper Citation

AnimalTracker (RRID:SCR_014397)

Resource Information

URL: <http://animaltracker.elte.hu/>

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Description: A universal tracking application specifically designed to support animal behavioral analysis. AnimalTracker consists of three main modules which can be used independently: Tracker is responsible for image processing and providing the coordinates of the identified object; Zone Designer provides tools to create custom-made investigation areas in order to design a maze-setup; and Tracking Analyzer module serves to define and obtain the parameters needed for the evaluation.

Synonyms: Animal Tracker

Resource Type: software application, software resource, data analysis software, data processing software

Keywords: animal, tracking system, universal, animal behavior, analysis

Funding: Hungarian Brain Research Program

Availability: Acknowledgment required, Available for download, Open source

Resource Name: AnimalTracker

Resource ID: SCR_014397

License: Apache License 2.0

Record Creation Time: 20220129T080320+0000

Record Last Update: 20260729T044328+0000

Ratings and Alerts

No rating or validation information has been found for AnimalTracker.

No alerts have been found for AnimalTracker.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Sanchiz-Calvo M, et al. (2025) Loss of the lysosomal lipid flippase ATP10B leads to progressive dopaminergic neurodegeneration and parkinsonian motor deficits. *Acta neuropathologica*, 150(1), 5.

Tsafaras G, et al. (2025) The G2019S LRRK2 mutation exacerbates α -synuclein and tau neuropathology through divergent pathways in Parkinson's disease models. *Acta neuropathologica*, 150(1), 51.

Lopes DM, et al. (2024) Glymphatic inhibition exacerbates tau propagation in an Alzheimer's disease model. *Alzheimer's research & therapy*, 16(1), 71.

Cai Y, et al. (2024) *Lactibacillus paracasei* LC86 mitigates age-related muscle wasting and cognitive impairment in SAMP8 mice through gut microbiota modulation and the regulation of serum inflammatory factors. *Frontiers in nutrition*, 11, 1390433.

Brown JW, et al. (2024) Division of labor for defensive retaliation and preemption by the peripheral and central nervous systems in the nudibranch *Berghia*. *Current biology : CB*, 34(10), 2175.

Sai K, et al. (2023) Aberrantly activated TAK1 links neuroinflammation and neuronal loss in Alzheimer's disease mouse models. *Journal of cell science*, 136(6).

Kelly TR, et al. (2023) Tropical rock lobster (*Panulirus ornatus*) uses chemoreception via the antennular lateral flagellum to identify conspecific ecdysis. *Scientific reports*, 13(1), 12409.

Resta F, et al. (2022) Large-scale all-optical dissection of motor cortex connectivity shows a segregated organization of mouse forelimb representations. *Cell reports*, 41(6), 111627.

Zong W, et al. (2022) Large-scale two-photon calcium imaging in freely moving mice. *Cell*, 185(7), 1240.

Kelly TR, et al. (2022) Development of a two-current choice flume behavioural bioassay for juvenile *Panulirus ornatus* response to moulting cues. *Scientific reports*, 12(1), 21474.

Battistoni M, et al. (2022) Modified *Xenopus laevis* approach (R-FETAX) as an alternative test for the evaluation of foetal valproate spectrum disorder. *Reproductive toxicology* (Elmsford, N.Y.), 107, 140.

Ochi R, et al. (2022) Voluntary exercise reverses social behavior deficits and the increases in the densities of cholecystokinin-positive neurons in specific corticolimbic regions of diabetic OLETF rats. *Behavioural brain research*, 428, 113886.

Mizobuchi H, et al. (2021) Prevention of Diabetes-Associated Cognitive Dysfunction Through Oral Administration of Lipopolysaccharide Derived From *Pantoea agglomerans*. *Frontiers in immunology*, 12, 650176.

Fernández de Cossío L, et al. (2021) Lipopolysaccharide-induced maternal immune activation modulates microglial CX3CR1 protein expression and morphological phenotype in the hippocampus and dentate gyrus, resulting in cognitive inflexibility during late adolescence. *Brain, behavior, and immunity*, 97, 440.

Ochi R, et al. (2021) Medial prefrontal area reductions, altered expressions of cholecystokinin, parvalbumin, and activating transcription factor 4 in the corticolimbic system, and altered emotional behavior in a progressive rat model of type 2 diabetes. *PloS one*, 16(9), e0256655.

Singlár Z, et al. (2021) Assessing the Potential of Nutraceuticals as Geroprotectors on Muscle Performance and Cognition in Aging Mice. *Antioxidants* (Basel, Switzerland), 10(9).

Ochi R, et al. (2020) Region-specific brain area reductions and increased cholecystokinin positive neurons in diabetic OLETF rats: implication for anxiety-like behavior. *The journal of physiological sciences : JPS*, 70(1), 42.

Kobayashi Y, et al. (2018) Oral administration of *Pantoea agglomerans*-derived lipopolysaccharide prevents metabolic dysfunction and Alzheimer's disease-related memory loss in senescence-accelerated prone 8 (SAMP8) mice fed a high-fat diet. *PloS one*, 13(6), e0198493.

Gulyás M, et al. (2016) AnimalTracker: An ImageJ-Based Tracking API to Create a Customized Behaviour Analyser Program. *Neuroinformatics*, 14(4), 479.