

Resource Summary Report

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Simple Behavior Analysis

RRID:SCR_021413

Type: Tool

Proper Citation

Simple Behavior Analysis (RRID:SCR_021413)

Resource Information

URL: <https://github.com/sgoldenlab/simba>

Proper Citation: Simple Behavior Analysis (RRID:SCR_021413)

Description: Open source software toolkit for computer classification of complex social behaviors in experimental animals.

Synonyms: SimBA

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

Defining Citation: [DOI:10.1101/2020.04.19.049452](https://doi.org/10.1101/2020.04.19.049452)

Keywords: Complex social behaviors classifications, supervised behavioral classifiers development, score behaviors across different background settings, OpenBehavior

Availability: Free, Available for download, Freely Available

Resource Name: Simple Behavior Analysis

Resource ID: SCR_021413

Alternate URLs: <https://edspace.american.edu/openbehavior/project/simba/>

License: MIT License

Record Creation Time: 20220129T080355+0000

Record Last Update: 20260811T043649+0000

Ratings and Alerts

No rating or validation information has been found for Simple Behavior Analysis.

No alerts have been found for Simple Behavior Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Gregory NS, et al. (2026) No evidence of immediate or persistent analgesic effect from a single dose of psilocybin in three mouse models of pain. Nature communications, 17(1).

Cyrano E, et al. (2025) Assessing the effects of 5-HT2A and 5-HT5A receptor antagonists on DOI-induced head-twitch response in male rats using marker-less deep learning algorithms. Pharmacological reports : PR, 77(1), 135.

Mitelut C, et al. (2025) Continuous monitoring and machine vision reveals that developing gerbils exhibit structured social behaviors prior to the emergence of autonomy. PLoS biology, 23(9), e3003348.

Hao G, et al. (2025) Topological identification and interpretation for single-cell epigenetic regulation elucidation in multi-tasks using scAGDE. Nature communications, 16(1), 1691.

Ishii KK, et al. (2025) Post-ejaculatory inhibition of female sexual drive via heterogeneous neuronal ensembles in the medial preoptic area. eLife, 12.

Popik P, et al. (2024) Deep learning algorithms reveal increased social activity in rats at the onset of the dark phase of the light/dark cycle. PloS one, 19(11), e0307794.

Zahran MA, et al. (2024) Deep learning-based scoring method of the three-chamber social behaviour test in a mouse model of alcohol intoxication. A comparative analysis of DeepLabCut, commercial automatic tracking and manual scoring. Heliyon, 10(17), e36352.

Chesters RA, et al. (2024) Fasting-induced activity changes in MC3R neurons of the paraventricular nucleus of the thalamus. Life science alliance, 7(10).

Popik P, et al. (2023) Effects of ketamine on rat social behavior as analyzed by DeepLabCut and SimBA deep learning algorithms. Frontiers in pharmacology, 14, 1329424.

Newton KC, et al. (2023) Lateral line ablation by ototoxic compounds results in distinct rheotaxis profiles in larval zebrafish. Communications biology, 6(1), 84.

Terstege DJ, et al. (2023) Protocol for the integration of fiber photometry and social behavior in rodent models. STAR protocols, 4(4), 102689.

Lapp HE, et al. (2023) Automated maternal behavior during early life in rodents (AMBER) pipeline. Scientific reports, 13(1), 18277.

Baleisyte A, et al. (2022) Stimulation of medial amygdala GABA neurons with kinetically different channelrhodopsins yields opposite behavioral outcomes. Cell reports, 39(8), 110850.

Gorssen W, et al. (2022) Estimating genetics of body dimensions and activity levels in pigs using automated pose estimation. Scientific reports, 12(1), 15384.

Winters C, et al. (2022) Automated procedure to assess pup retrieval in laboratory mice. Scientific reports, 12(1), 1663.

Cruz-Pereira JS, et al. (2022) Prebiotic supplementation modulates selective effects of stress on behavior and brain metabolome in aged mice. Neurobiology of stress, 21, 100501.