

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: software toolkit, software resource, data processing software, software application, data analysis 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: 20260803T040809+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 13 mentions in open access literature.

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

Cyrano E, et al. (2025) Assessing the effects of 5-HT_{2A} and 5-HT_{5A} receptor antagonists on DOI-induced head-twitch response in male rats using marker-less deep learning algorithms. *Pharmacological reports : PR*, 77(1), 135.

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.

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.

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

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.

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.