

Resource Summary Report

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ezTrack

RRID:SCR_021496

Type: Tool

Proper Citation

ezTrack (RRID:SCR_021496)

Resource Information

URL: <https://github.com/denisecailab/ezTrack>

Proper Citation: ezTrack (RRID:SCR_021496)

Description: Open source video analysis pipeline for investigation of animal behavior. Platform independent set of behavior analysis pipelines using interactive Python (iPython/Jupyter Notebook) that researchers with no prior programming experience can use.

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

Defining Citation: [DOI:10.1038/s41598-019-56408-9](https://doi.org/10.1038/s41598-019-56408-9)

Keywords: Track animal location, track motion, track animal freezing, OpenBehavior

Availability: Free, Available for download, Freely Available

Resource Name: ezTrack

Resource ID: SCR_021496

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

License: GNU General Public License

Record Creation Time: 20220129T080355+0000

Record Last Update: 20260912T195956+0000

Ratings and Alerts

No rating or validation information has been found for ezTrack.

No alerts have been found for ezTrack.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Bukalo O, et al. (2026) Astrocytes enable amygdala neural representations supporting memory. *Nature*, 652(8109), 434.

Davis MN, et al. (2026) Parvalbumin Neuron-Targeted Loss of Alzheimer's Disease Risk Gene BIN1 Is Insufficient to Drive Cognitive or Network Excitability Changes. *eNeuro*, 13(3).

Zheng L, et al. (2026) Scalable and multiplexed recorders of gene regulation dynamics across weeks. *Nature*, 652(8111), 1038.

D'Andrea G, et al. (2026) Hydroxytyrosol Mitigates Anxiety-Like Behaviors After a Traumatic Experience in Aged Mice in Parallel With Increased Neurogenesis in the Ventral and Dorsal Dentate Gyrus, and Preservation of Gut Microbiota Composition. *Journal of neurochemistry*, 170(5), e70448.

Aranda ML, et al. (2026) Light tunes long-term threat avoidance behavior in male mice. *Nature communications*, 17(1).

Zheng Y, et al. (2026) Parvalbumin-positive neurons in the medial septum participate in the formation of hippocampal-dependent spatial memory. *Nature communications*, 17(1).

Raccuglia D, et al. (2025) Network synchrony creates neural filters promoting quiescence in *Drosophila*. *Nature*, 646(8085), 667.

Ciscato M, et al. (2025) Covalent anchoring of tethered ligands to chemogenetic handles for targeted in vivo neuropharmacology. *STAR protocols*, 6(4), 104186.

Dong Z, et al. (2025) Simultaneous two-color imaging with a dual-channel miniscope in freely behaving mice. *Science advances*, 11(27), eadr6470.

Morningstar AR, et al. (2025) Early life stress modulates behavioral sensitivity to alcohol and promotes escalation of alcohol drinking. *bioRxiv : the preprint server for biology*.

Jehl J, et al. (2025) The interpeduncular nucleus blunts the rewarding effect of nicotine. *Neuron*, 113(12), 1898.

Palchadhuri S, et al. (2025) A posterior insula to lateral amygdala pathway transmits US-offset information with a limited role in fear learning. *Cell reports*, 44(2), 115320.

P??pplau JA, et al. (2024) Reorganization of adolescent prefrontal cortex circuitry is required for mouse cognitive maturation. *Neuron*, 112(3), 421.

Belilos A, et al. (2023) Nucleus accumbens local circuit for cue-dependent aversive learning. *Cell reports*, 42(12), 113488.

Kintscher M, et al. (2023) A striatal circuit balances learned fear in the presence and absence of sensory cues. *eLife*, 12.

Shao S, et al. (2023) Ventral hippocampal CA1 modulates pain behaviors in mice with peripheral inflammation. *Cell reports*, 42(1), 112017.

Leuthardt AS, et al. (2021) Influence of High Energy Diet and Polygenic Predisposition for Obesity on Postpartum Health in Rat Dams. *Frontiers in physiology*, 12, 772707.

McElroy DL, et al. (2020) Implementation of ezTrack open-source pipeline for quantifying rat locomotor behavior: Comparison to commercially available software. *Neuroscience letters*, 723, 134839.