

Resource Summary Report

Generated by PRECISE-TBI on Sep 9, 2026

GuPPy

RRID:SCR_022353

Type: Tool

Proper Citation

GuPPy (RRID:SCR_022353)

Resource Information

URL: <https://edspace.american.edu/openbehavior/project/guppy/>

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Description: Software Python toolbox that makes fiber photometry data analysis intuitive and light on programming.Used to measure neural activity of freely behaving animals.

Synonyms: Guided Photometry Analysis in Python

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

Defining Citation: [DOI:10.1038/s41598-021-03626-9](https://doi.org/10.1038/s41598-021-03626-9)

Keywords: OpenBehavior, photometry analysis, neural activity measure, freely behaving animals

Resource Name: GuPPy

Resource ID: SCR_022353

Alternate URLs: <https://github.com/LernerLab/GuPPy>

License: GPL v3

Record Creation Time: 20220602T050140+0000

Record Last Update: 20260905T133013+0000

Ratings and Alerts

No rating or validation information has been found for GuPPy.

No alerts have been found for GuPPy.

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 [PRECISE-TBI](#) .

Weber SJ, et al. (2026) Dopamine and Calcium Dynamics in the Nucleus Accumbens Core during Food Seeking. *eNeuro*, 13(4).

Namias A, et al. (2025) Recombination, Truncation and Horizontal Transfer Shape the Diversity of Wolbachia-induced Cytoplasmic Incompatibility Patterns. *Molecular biology and evolution*, 42(9).

Zhang H, et al. (2025) hpGRISZ: a high-performance fluorescent biosensor for in vivo imaging of synaptic zinc dynamics. *bioRxiv : the preprint server for biology*.

Namias A, et al. (2025) Recombination, truncation and horizontal transfer shape the diversity of cytoplasmic incompatibility patterns. *bioRxiv : the preprint server for biology*.

Ramaprasad A, et al. (2025) A scaleable inducible knockout system for studying essential gene function in the malaria parasite. *Nucleic acids research*, 53(4).

Miller CN, et al. (2025) Acute stress causes sex-specific changes to ventral subiculum synapses, circuitry, and anxiety-like behavior. *Nature communications*, 16(1), 5604.

Mikati MO, et al. (2025) Highly sensitive in vivo detection of dynamic changes in enkephalins following acute stress in mice. *eLife*, 12.

Chua EW, et al. (2025) Nanopore sequencing-based genotyping suggested an association between CYP2D6 function and susceptibility to anxiety and depression. *BMC research notes*, 18(1), 88.

Starcevic A, et al. (2025) Long-read metagenomic sequencing negates inferred loss of cytosine methylation in Myxosporea (Cnidaria: Myxozoa). *GigaScience*, 14.

Ng NKL, et al. (2025) Mechanism of Initial Favorable Response to Decitabine in TP53-Mutated MDS/AML and Potential Mechanisms of Subsequent Relapse. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(14), 3048.

Eckenwiler EA, et al. (2025) Corticotropin-Releasing Factor Release From a Unique Subpopulation of Accumbal Neurons Constrains Action-Outcome Acquisition in Reward Learning. *Biological psychiatry*, 97(6), 637.

Guo W, et al. (2025) Single-molecule m6A detection empowered by endogenous labeling unveils complexities across RNA isoforms. *Molecular cell*, 85(6), 1233.

Mongrardien R, et al. (2025) Astrocytes Control Cocaine-Induced Synaptic Plasticity and Reward Through the Extracellular Matrix Protein Hevin. *Biological psychiatry*.

Bocarsly ME, et al. (2024) Preexisting risk-avoidance and enhanced alcohol relief are driven by imbalance of the striatal dopamine receptors in mice. *Nature communications*, 15(1), 9093.

Pirger Z, et al. (2024) Same same, but different: exploring the enigmatic role of the pituitary adenylate cyclase-activating polypeptide (PACAP) in invertebrate physiology. *Journal of comparative physiology. A, Neuroethology, sensory, neural, and behavioral physiology*, 210(6), 909.

Cao S, et al. (2024) Gapless genome assembly and epigenetic profiles reveal gene regulation of whole-genome triplication in lettuce. *GigaScience*, 13.

Deseyve C, et al. (2024) Nucleus accumbens neurons dynamically respond to appetitive and aversive associative learning. *Journal of neurochemistry*, 168(3), 312.

Cuello C, et al. (2022) An updated version of the Madagascar periwinkle genome. *F1000Research*, 11, 1541.