

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

[pMAT](#)

RRID:SCR_022570

Type: Tool

Proper Citation

pMAT (RRID:SCR_022570)

Resource Information

URL: <https://github.com/djamesbarker/pMAT>

Proper Citation: pMAT (RRID:SCR_022570)

Description: Open source software suite for analysis of fiber photometry data.

Abbreviations: pMAT

Synonyms: Photometry Modular Analysis Tool

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

Defining Citation: [PMID:33385438](#)

Keywords: fiber photometry data analysis, fiber photometry

Funding: NIDA DA043572

Resource Name: pMAT

Resource ID: SCR_022570

License: GNU GPL

Record Creation Time: 20220721T050151+0000

Record Last Update: 20260912T200027+0000

Ratings and Alerts

No rating or validation information has been found for pMAT.

No alerts have been found for pMAT.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

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

Yan H, et al. (2025) Parvalbumin Interneuron-Dependent Hippocampal Neurogenesis Evoked by Prolonged Rhythmic Light Flicker. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(37), e03017.

Li Q, et al. (2025) Complete plastome and mitogenome assembly of endangered tree *Karpatisorbus bristoliensis* reveals phylogenetic architecture for *Sorbus sensu lato* (Rosaceae). *Frontiers in plant science*, 16, 1619267.

Miguel Telega L, et al. (2025) Chronic in vivo sequelae of repetitive acute mfb-DBS on accumbal dopamine and midbrain neuronal activity. *Journal of neurochemistry*, 169(1), e16223.

Borie AM, et al. (2024) Neuropeptide therapeutics to repress lateral septum neurons that disable sociability in an autism mouse model. *Cell reports. Medicine*, 5(11), 101781.

Tu XD, et al. (2024) The complete mitochondrial genome of *Castanopsis carlesii* and *Castanea henryi* reveals the rearrangement and size differences of mitochondrial DNA molecules. *BMC plant biology*, 24(1), 988.

Tamatsu Y, et al. (2023) Optogenetic activation of the ventral tegmental area-hippocampal pathway facilitates rapid adaptation to changes in spatial goals. *iScience*, 26(12), 108536.

Johnson SB, et al. (2022) Activity in a prefrontal-periaqueductal gray circuit overcomes behavioral and endocrine features of the passive coping stress response. *Proceedings of the National Academy of Sciences of the United States of America*, 119(44), e2210783119.