

Resource Summary Report

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FMAToolbox

RRID:SCR_015533

Type: Tool

Proper Citation

FMAToolbox (RRID:SCR_015533)

Resource Information

URL: <http://fmatoolbox.sourceforge.net>

Proper Citation: FMAToolbox (RRID:SCR_015533)

Description: Matlab toolbox used to help analyze electrophysiological and behavioral data recorded from freely moving animals.

Synonyms: FMA Toolbox, Freely Moving Animal Toolbox

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

Keywords: electrophysiology software, behavioral software, freely moving animal, matlab

Availability: Available for download, Acknowledgement requested

Resource Name: FMAToolbox

Resource ID: SCR_015533

Old URLs: <http://www.buzsakilab.com/content/PDFs/HasanJNeuroscMeth2006.pdf>

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Record Creation Time: 20220129T080326+0000

Record Last Update: 20260729T044352+0000

Ratings and Alerts

No rating or validation information has been found for FMAToolbox.

No alerts have been found for FMAToolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 59 mentions in open access literature.

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

Mourão FAG, et al. (2026) Hippocampal-Prelimbic Coupling During Context-Dependent Extinction Retrieval in Rats. *Hippocampus*, 36(1), e70058.

Pompili MN, et al. (2025) Adaptive communication between cell assemblies and "reader" neurons shapes flexible brain dynamics. *PLoS biology*, 23(12), e3003505.

Mourão FAG, et al. (2025) Hippocampal-prelimbic coupling during context-dependent extinction retrieval in rats. *bioRxiv : the preprint server for biology*.

Pompili MN, et al. (2025) Ventral Hippocampus Modulates Prefrontal Control of Background Contextual Fear After Cued Extinction. *The European journal of neuroscience*, 62(8), e70287.

Basha D, et al. (2025) The reuniens nucleus of the thalamus facilitates hippocampo-cortical dialogue during sleep. *eLife*, 12.

Ferrero JJ, et al. (2025) Closed-loop electrical stimulation prevents focal epilepsy progression and long-term memory impairment. *Nature neuroscience*, 28(8), 1753.

Aleman-Zapata A, et al. (2025) Differential contributions of CA3 and entorhinal cortex inputs to ripple patterns in the hippocampus. *iScience*, 28(2), 111782.

Terral G, et al. (2024) Endogenous cannabinoids in the piriform cortex tune olfactory perception. *Nature communications*, 15(1), 1230.

Hou R, et al. (2024) Coordinated Interactions between the Hippocampus and Retrosplenial Cortex in Spatial Memory. *Research (Washington, D.C.)*, 7, 0521.

Puhger K, et al. (2024) The hippocampus contributes to retroactive stimulus associations during trace fear conditioning. *iScience*, 27(3), 109035.

Zhang H, et al. (2024) Awake ripples enhance emotional memory encoding in the human brain. *Nature communications*, 15(1), 215.

Londoño-Ramírez H, et al. (2024) Multiplexed Surface Electrode Arrays Based on Metal Oxide Thin-Film Electronics for High-Resolution Cortical Mapping. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(10), e2308507.

Drieu C, et al. (2024) Rapid emergence of latent knowledge in the sensory cortex drives learning. *bioRxiv : the preprint server for biology*.

Wang Y, et al. (2024) Ventral Hippocampal CA1 Pyramidal Neurons Encode Nociceptive Information. *Neuroscience bulletin*, 40(2), 201.

A Dehaqani A, et al. (2024) A mechanosensory feedback that uncouples external and self-generated sensory responses in the olfactory cortex. *Cell reports*, 43(4), 114013.

Signoret-Genest J, et al. (2023) Integrated cardio-behavioral responses to threat define defensive states. *Nature neuroscience*, 26(3), 447.

Navarro Lobato I, et al. (2023) Increased cortical plasticity leads to memory interference and enhanced hippocampal-cortical interactions. *eLife*, 12.

Ulyanova AV, et al. (2023) Hippocampal interneuronal dysfunction and hyperexcitability in a porcine model of concussion. *Communications biology*, 6(1), 1136.

Dahal P, et al. (2023) Hippocampal-cortical coupling differentiates long-term memory processes. *Proceedings of the National Academy of Sciences of the United States of America*, 120(7), e2207909120.

Signoret-Genest J, et al. (2023) Compromised trigemino-coerulean coupling in migraine sensitization can be prevented by blocking beta-receptors in the locus coeruleus. *The journal of headache and pain*, 24(1), 165.