

Resource Summary Report

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CellExplorer

RRID:SCR_022358

Type: Tool

Proper Citation

CellExplorer (RRID:SCR_022358)

Resource Information

URL: <https://cellexplorer.org/>

Proper Citation: CellExplorer (RRID:SCR_022358)

Description: Open source framework for single cell characterization and visualization. Graphical user interface, standardized processing module and data structure for exploring and classifying single cells acquired using extracellular electrodes.

Resource Type: time-series analysis software, software resource, data analysis software, 1d time-series analysis software, software application, data processing software

Defining Citation: [DOI:10.1016/j.neuron.2021.09.002](https://doi.org/10.1016/j.neuron.2021.09.002)

Keywords: OpenBehavior, single cell characterization and visualization, classifying single cells, extracellular electrodes

Availability: Free, Available for download, Freely available

Resource Name: CellExplorer

Resource ID: SCR_022358

Alternate URLs: <https://edspace.american.edu/openbehavior/project/cellexplorer/>, <https://github.com/petersenpeter/CellExplorer>

License: BSD 3-Clause "New" or "Revised" License

Record Creation Time: 20220602T050140+0000

Record Last Update: 20260820T054949+0000

Ratings and Alerts

No rating or validation information has been found for CellExplorer.

No alerts have been found for CellExplorer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Lee EK, et al. (2026) A multimodal approach for visualizing and identifying electrophysiological cell types in vivo. *Nature communications*, 17(1).

Li J, et al. (2026) Flexible goal learning involves coordinated population activity in dCA1 and medial orbitofrontal cortex. *PLoS biology*, 24(5), e3003824.

Tong J, et al. (2026) Long-Term Memory Updating Parallels Altered Awake and Sleep Hippocampal Replays. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(3), e16480.

Dong YP, et al. (2026) GluN2A-NMDA receptor inhibition disinhibits the prefrontal cortex, reduces forced swim immobility, and impairs sensorimotor gating. *Acta pharmacologica Sinica*, 47(1), 53.

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).

Zhu H, et al. (2025) Temporal coding carries more stable cortical visual representations than firing rate over time. *Nature communications*, 16(1), 7162.

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

Woo J, et al. (2025) Dynamic changes in chloride homeostasis coordinate midbrain inhibitory network activity during reward learning. *Nature communications*, 16(1), 10903.

Abad-Perez P, et al. (2025) Evidence of spatial periodic firing in the subiculum of mice. *Frontiers in neural circuits*, 19, 1648844.

Zhu H, et al. (2025) Temporal coding carries more stable cortical visual representations than firing rate over time. *bioRxiv : the preprint server for biology*.

Prince SM, et al. (2025) New information triggers prospective codes to adapt for flexible navigation. *Nature communications*, 16(1), 4822.

Jeong N, et al. (2025) Goal-specific hippocampal inhibition gates learning. *Nature*, 642(8069), 1007.

Gao Y, et al. (2025) A dataset of expression profile of certain microRNAs in *Caenorhabditis elegans*. *Scientific data*, 12(1), 1143.

Marin-Llobet A, et al. (2025) An AI Agent for cell-type specific brain computer interfaces. *bioRxiv* : the preprint server for biology.

Purple RJ, et al. (2025) Short- and long-term modulation of rat prefrontal cortical activity following single doses of psilocybin. *Molecular psychiatry*, 30(12), 5889.

Valbuena S, et al. (2025) Early time window for memory ensemble allocation specifically depending on activity in Syt2+ early-born parvalbumin interneurons. *Cell reports*, 44(8), 116144.

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

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

Bhandari K, et al. (2024) Selective vulnerability of the ventral hippocampus-prelimbic cortex axis parvalbumin interneuron network underlies learning deficits of fragile X mice. *Cell reports*, 43(5), 114124.

Prince SM, et al. (2023) New information triggers prospective codes to adapt for flexible navigation. *bioRxiv* : the preprint server for biology.