Resource Summary Report

Generated by SPARC SAWG on Sep 16, 2026

Flywire.ai

RRID:SCR_019205
Type: Tool

Proper Citation

Flywire.ai (RRID:SCR_019205)

Resource Information

URL: https://flywire.ai/

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Description: Online community for whole brain connectomics.Game like platform open to all to help crowdsource first complete wiring diagram of centralized brain. In fruit fly brain sliced and imaged by electron microscopy, we identified pieces of neurons by artificial intelligence. Players search for right pieces and put together 3D neurons that advance understanding of brain circuits. Enables circuit analysis by reconstructing and analysing connectome of mechanosensory neurons.

Synonyms: FlyWire

Resource Type: data access protocol, software resource, web service

Keywords: Whole brain connectomics, crowdsource first complete wiring diagram, centralized brain, fruit fly, brain sliced, brain imaged, electron microscopy, neurons identification, artificial intelligence, 3D neurons, brain circuits, mechanosensory neurons connectome

Availability: Free, Freely available

Resource Name: Flywire.ai

Resource ID: SCR_019205

License URLs: https://flywire.ai/tos.html

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260912T195910+0000

Ratings and Alerts

No rating or validation information has been found for Flywire.ai.

No alerts have been found for Flywire.ai.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 44 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Özmen M, et al. (2026) Homotypic dendritic interactions constrain growth and receptor distribution in Drosophila T4 neurons without affecting orientation or function. Development (Cambridge, England), 153(7).

Schwartzman G, et al. (2026) NTAC: Neuronal type assignment from connectivity. Nature communications, 17(1), 1284.

Francés R, et al. (2026) Aversive learning hijacks a brain sugar sensor to consolidate memory. Nature, 654(8118), 476.

Corradini E, et al. (2026) A Complex Network-Based Approach for Detecting and Characterizing Power Neurons in Drosophila. Neuroinformatics, 24(1), 11.

Erginkaya M, et al. (2025) A competitive disinhibitory network for robust optic flow processing in Drosophila. Nature neuroscience, 28(6), 1241.

Holguera I, et al. (2025) Temporal and Notch identity determine layer targeting and synapse location of medulla neurons. bioRxiv : the preprint server for biology.

Jacobs H, et al. (2025) Can bacteria think? EMBO reports, 26(1), 3.

Zhao A, et al. (2025) Eye structure shapes neuron function in Drosophila motion vision. Nature, 646(8083), 135.

Giakoumas DS, et al. (2025) Connectomic mapping of pharyngeal and gut sensory circuits in adult Drosophila. bioRxiv : the preprint server for biology.

Dorkenwald S, et al. (2025) CAVE: Connectome Annotation Versioning Engine. Nature methods, 22(5), 1112.

Stürner T, et al. (2025) Comparative connectomics of Drosophila descending and ascending neurons. Nature, 643(8070), 158.

Scholz-Carlson E, et al. (2025) Synaptic Targets of Circadian Clock Neurons Influence Core Clock Parameters. bioRxiv : the preprint server for biology.

Nelson N, et al. (2025) Neuron-to-glia signaling drives critical period experience-dependent synapse pruning. Scientific reports, 15(1), 25744.

Schwartzman G, et al. (2025) Connectivity Is All You Need: Inferring Neuronal Types with NTAC. bioRxiv : the preprint server for biology.

Miller VK, et al. (2025) Glia-to-glia serotonin signaling directs MMP-dependent infiltration for experience-dependent synapse pruning. PLoS biology, 23(12), e3003524.

Nunez KM, et al. (2025) Hunger Recruits a Parallel Circuit Encoding Alcohol Reward. bioRxiv : the preprint server for biology.

Scholz-Carlson E, et al. (2025) Synaptic targets of circadian clock neurons influence core clock parameters. Science advances, 11(36), eadw4666.

Mollá-Albaladejo R, et al. (2025) Molecular characterization of gustatory second-order neurons reveals integrative mechanisms of gustatory and metabolic information. eLife, 13.

Jiang H, et al. (2025) A parallelly distributed microscope and software system for scalable high-throughput multispectral 3D imaging. bioRxiv : the preprint server for biology.

Samara E, et al. (2025) Columnar cholinergic neurotransmission onto T5 cells of Drosophila. Current biology : CB, 35(6), 1269.