Resource Summary Report

Generated by nidm-terms on Jul 29, 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: software resource, data access protocol, 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: 20260729T044454+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 40 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

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

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

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

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

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

Scholz-Carlson E, et al. (2025) Synaptic Targets of Circadian Clock Neurons Influence Core Clock Parameters. 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.

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.

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

Nunez KM, et al. (2025) Hunger Recruits a Parallel Circuit Encoding Alcohol Reward. 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.

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.

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

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

Bervoets S, et al. (2025) dArc1 controls sugar reward valuation in Drosophila melanogaster. Current biology : CB, 35(17), 4188.

Yamakoshi H, et al. (2025) Mating status-dependent dopaminergic modulation of auditory sensory neurons in Drosophila. iScience, 28(9), 113232.

Barnatan Y, et al. (2025) The Synaptic Complexity of a High-Integration Lobula Giant Neuron in Crabs. The Journal of comparative neurology, 533(2), e70026.

Christenson MP, et al. (2024) Hue selectivity from recurrent circuitry in Drosophila. Nature neuroscience, 27(6), 1137.