Resource Summary Report

Generated by dkNET on Apr 25, 2025

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: web service, software resource, data access protocol

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

Funding:

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: 20250425T060343+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 18 mentions in open access literature.

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

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

Stürner T, et al. (2024) Comparative connectomics of the descending and ascending neurons of the Drosophila nervous system: stereotypy and sexual dimorphism. bioRxiv : the preprint server for biology.

Cornean J, et al. (2024) Heterogeneity of synaptic connectivity in the fly visual system. Nature communications, 15(1), 1570.

Yuan X, et al. (2024) Temperature cues are integrated in a flexible circadian neuropeptidergic feedback circuit to remodel sleep-wake patterns in flies. PLoS biology, 22(12), e3002918.

Falahati H, et al. (2024) Ectopic reconstitution of a spine-apparatus-like structure provides insight into mechanisms underlying its formation. Current biology : CB.

Meschi E, et al. (2024) Compensatory enhancement of input maintains aversive dopaminergic reinforcement in hungry Drosophila. Neuron, 112(14), 2315.

González Segarra AJ, et al. (2023) Hunger- and thirst-sensing neurons modulate a neuroendocrine network to coordinate sugar and water ingestion. eLife, 12.

Laturney M, et al. (2023) Mating activates neuroendocrine pathways signaling hunger in Drosophila females. eLife, 12.

Chou YH, et al. (2022) Mating-driven variability in olfactory local interneuron wiring. Science

advances, 8(7), eabm7723.

Shiu PK, et al. (2022) Taste quality and hunger interactions in a feeding sensorimotor circuit. eLife, 11.

Zheng Z, et al. (2022) Structured sampling of olfactory input by the fly mushroom body. Current biology : CB, 32(15), 3334.

Guo L, et al. (2022) Descending neurons coordinate anterior grooming behavior in Drosophila. Current biology : CB, 32(4), 823.

Dorkenwald S, et al. (2022) FlyWire: online community for whole-brain connectomics. Nature methods, 19(1), 119.

Israel S, et al. (2022) Olfactory stimuli and moonwalker SEZ neurons can drive backward locomotion in Drosophila. Current biology : CB, 32(5), 1131.

Park A, et al. (2022) Gliotransmission of D-serine promotes thirst-directed behaviors in Drosophila. Current biology : CB, 32(18), 3952.

Galili DS, et al. (2022) Connectomics and the neural basis of behaviour. Current opinion in insect science, 54, 100968.

Kind E, et al. (2021) Synaptic targets of photoreceptors specialized to detect color and skylight polarization in Drosophila. eLife, 10.

Deutsch D, et al. (2020) The neural basis for a persistent internal state in Drosophila females. eLife, 9.