



## Brain Mapping of Fruit Fly

[Source: TH](#)

Recently, Scientists mapped the entire brain of an adult fruit fly, a breakthrough that advances our understanding of brain function in animals and humans.

- **Objective:**
  - Aimed to **understand how brains are wired** and the signals that **support healthy brain functions**.
- **Research Scope:**
  - The study **mapped over 50 million neural connections** among more than 139,000 neurons in the **fruit fly** a common model in neurobiological research.
- **Connectome Development:**
  - The research **created a connectome for the adult fruit fly's brain**, expanding on studies of simpler organisms like the worm *Caenorhabditis elegans* and fruit fly larvae.
- **Applications to Neuroscience:**
  - Fruit flies, capable of behaviors like learning, memory, and social interaction, serve as valuable models for studying brain functions relevant to humans.
- **About Fruit Fly:**
  - Fruit flies, part of the **[Drosophilidae family](#)**, are commonly known as **vinegar, wine, or pomace flies and are usually found on ripe or rotten fruits**.
  - It has been a **widely used model organism in biological research** for the last 100 years, contributing to many discoveries.
  - Its **genome is fully sequenced, offering extensive information** on its biochemistry, physiology, and behavior.

Read More: [Connectome](#), [Brainware](#)

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