

Resources

At this page you find generic protocols to aid in the classroom execution of the module protocols.

1 Generic Protocols

***Drosophila* manual**

An excellent laboratory manual for working with *Drosophila* from the Markentein laboratory.

Food Recipes

Fly food recipes and preparation instructions from the Bloomington *Drosophila* Stock Center.

Preparing Retinal food :Protocol detailing how to prepare fly food that contains all-trans retinal.

2 External links

2.1 Outreach

Pueblo Brain Science

A program at the University of New Mexico led by Syed “FlyGuy” that builds diversity in neuroscience through undergraduate research training, mentoring, and annual workshops using fruit flies and 3D-printed tools. It also provides science outreach to Pueblo and Navajo communities and engages high school students across New Mexico.

2.2 Connectomics

neuPrint

A powerful platform for querying large-scale neural circuit reconstructions. Key datasets include the optic lobe, mushroom body, male VNC, and hemibrain, among others.

FlyWire Academy

FlyWire Academy provides connectomics lessons designed for educators and scientists doing outreach at the high school and college level.

Virtual Fly Brain

Virtual Fly Brain (VFB) is an interactive tool for exploring the neuroanatomy, connectivity, and gene expression of *Drosophila melanogaster*. It integrates published neuroanatomical data and image datasets onto a common brain template, enabling cross-searches and 3D comparison of neurons.

natverse

The natverse is a collection of interoperable R packages to import, visualise, analyse, manipulate, and export 3D neuroanatomical data, including neurons, brains, and brain regions. It has been used to study brain and circuit organisation in species from flies to fish and mice.