The Drosophila neuroanatomy ontology (DAO) is an organised set of terms describing the wild-type anatomy of *Drosophila melanogaster*. Recent work has focused on the neuroanatomy.

1. What is it?

- Each term is part of a rich hierarchy
- Develops from embryonic/larval brain
- Periesophageal neuropils
- Saddle is part of adult cerebral ganglion
- Ventrilateral neuropils
- Wedge has presynaptic terminals in AMMC
- Projection neuron is a interneuron
- Is a is part of extrinsic neuron
- Is a is part of dopaminergic neuron

**Eg.** the antennal mechanosensory and motor centre AMMC-IVLP projection neuron 1 (AMMC-IVLP PN1; Lai et al., 2012)

2. Why is it useful?

- Phenotype and expression data are annotated with neuroanatomy terms from the DAO, facilitating searching.

**Search FlyBase for a neuroanatomy term using the ‘Vocabularies’ tool**

**Find alleles that cause a phenotype or insertions that are expressed in a specific set of neurons**

**Dopaminergic PPL1 neuron**

- Neurons that are part of the dopaminergic PPL1 cluster
- Number of records

3. Recent additions to adult brain terms and connecting data

- Adopted adult brain nomenclature as defined by BrainName
- Terms added for recently identified lineage clones and *fruitless* clones
- New nomenclature for adult ventral nerve cord

**References:**

- Ito et al., 2014
- Lai et al., 2012
- Yu et al., 2010
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