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"Building a neuron with motors and microtubules"

- Neuronal polarity and structure are integral to neuronal function. We leverage an innovative combination of approaches in a Drosophila model to elucidate how the activity of molecular motors and microtubules create the distinct compartments that enable proper neuronal function.

- One of our aims is to elucidate the mechanisms by which molecular motors traffic cargo to dendrites.

- Another key aim is to determine how microtubule dynamics and stability are regulated to give rise to neuron-specific morphologies and functions.