





**Faculty Member Contact Information**

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<b>Contact Info</b>	
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**1 Funded, 2 Unfunded URCA Assistants**

	This position is <b>ONLY</b> open to students who have declared a major in this discipline.	<b>M</b>
	This project deals with social justice issues.	
	This project deals with sustainability (green) issues.	
<b>X</b>	This project deals with human health and wellness issues.	
	This project deals with community outreach.	
	This mentor's project is interdisciplinary in nature.	<b>I</b>

**Are you willing to work with students from outside of your discipline? If yes, which other disciplines?**

- Only similar fields

**How many hours per week will your student(s) be required to work in this position?**

(Minimum is 6 hours per week; typical is 9)

- 6-10 hours

**Will it be possible for your student(s) to earn course credit?**

- No

**Location of research/creative activities:**

- Science West 1000

**Brief description of the nature of the research/creative activity?**

Maintain fly stocks - make fly food, flip vials, sort males/females. Expose flies to water or ethanol vapor, then test various behavioral or neuromolecular outcomes. Current work in the lab will follow up on candidate genes identified from RNA-seq results so we will buy mutant strains and validate transcriptome findings with qRT-PCR.

**Brief description of student responsibilities?**

Keep a lab notebook, work with others in the lab to collect, expose, and test flies. Attend weekly one-on-one and lab meetings.

**URCA Assistant positions are designed to provide students with *research or creative activities* experience. As such, there should be measurable, appropriate outcome goals.**

**What exactly should your student(s) have learned by the end of this experience?**

Learn how to handle live organisms, setup and run experiments with proper controls, read relevant research papers in the field, and present findings to other scientists (ie. in lab meeting / colloquium / conference settings).

**Requirements of Students**

**If the position(s) require students to be available at certain times each week (as opposed to them being able to set their own hours) please indicate all required days and times:**

- Must be on campus frequently, including weekends if the experiment requires. Fly behaviors are typically tested from 10am - 4pm.

**If the location of the research/creative activities involves off campus work, must students provide their own transportation?**

- Must be on campus frequently.

**Must students have taken any prerequisite classes? Please list classes and preferred grades:**

- Genetics (BIOL220) with a B or better preferred.

**Other requirements or notes to applicants:**

- N/A