





Faculty Member Contact Information

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Contact Info	
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Department	Biomedical and Craniofacial Sciences

1 Funded, 3 Unfunded URCA Assistant

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

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

- I am open to taking students outside of my discipline, but only those in 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)

- 9

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

- No

Location of research/creative activities:

- School of Dental Medicine, Alton, IL

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

We work with mice to induce gut dysbiosis by feeding them an antibiotic cocktail in their drinking water. We collect fecal samples for thyroid hormone analysis, corticosterone analysis, alveolar bone height using light microscopy. We are interested in learning if there is a connection between gut dysbiosis and thyroid function and if there's a link to periodontal disease.

Brief description of student responsibilities?

Students will help with solution prep, bacterial culture prep, animal care, ELISA

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?

Importance of good scientific method, proper pipetting technique, aseptic technique, animal care.

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:

- Provide their own transportation to and from Alton, IL

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

- Yes

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

- No

Other requirements or notes to applicants:

- N/A