

Faculty Member Contact Information

Name	Andres Durantini
Contact Info	
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Campus Box	1652
Department	Chemistry

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?

Yes

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)

8

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

Yes CHEM 296, CHEM 396, and CHEM 496 1-2

Location of research/creative activities:

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

The research conducted in Dr. D's Lab is multidisciplinary, combining light microscopy, biochemistry, and photochemistry. The main focus is to explore the contribution of different bacterial lifestyles to the resistance of antibiotics and photoactive biocides whose mechanism of action encompasses oxidative damage. They are also interested in the R&D of light-activatable antimicrobial materials to mitigate the spread of infectious diseases in healthcare facilities and common used areas. These studies will contribute to improving antimicrobial treatments and developing the next-generation self-sterilizing photoactive materials.

Brief description of student responsibilities?

Students working in the chemistry research laboratory are expected to demonstrate a strong commitment to safety, accuracy, and ethical conduct. Their responsibilities include conducting experiments, analyzing data, and contributing to ongoing research projects under the guidance of the lab supervisor or principal investigator.

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?

Yes

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:

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

No need for transportation

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

N/A

Other requirements or notes to applicants: