



**"I am excited to be in a leadership position with CURS,
sharing my experiences in research with others!"
- Katelinn Jones (Cell and Molecular Biology),
CURS Ambassador**



Circadian Rhythm and Cardiovascular Disease
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INTRODUCTION
Circadian disease remains the number one... The cardiovascular system behaves... of a day, coordinating... with oscillating metabolic... in addition to the vasomotor, the brain also... as an oscillating system. These oscillations... circadian rhythm. The... body's internal clock that follows a 24... associated with mental and physical systems... of this internal clock may lead to negative... outcomes.

RESULTS
6.29.22
GAPDH Right Hippocampus

CONCLUSION & FUTURE WORK
Upon knockout of Bmal-1, Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) levels of expression were shown to oscillate opposite to its physiological expression in a 24-hour time course.
Fig. 4 and Fig. 5 suggests that GAPDH may oscillate and follow a circadian rhythm peaking from 12pm to 6pm and decreasing expression from 6am to 12pm.
In the future, we plan to characterize the sensor known paralog (similar structure, different function) of Bmal-1, called Bmal-2. Bmal-2 and its activity in controlling vascular function and remodeling is unknown. While Bmal-1 functions throughout the body, Bmal-2 is specific to the endothelium layer of blood vessels. We want to know what Bmal-2 is doing in this layer during the process of vascular remodeling by using the same methods utilized on Bmal-1.

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Reflection: National Mentor Day

By Jordan Moratin, CURS Ambassador Historian Secretary

Jordan Moratin, a senior Cell and Molecular Biology major, is currently completing undergraduate research under the mentorship of Dr. Dan Rudic, Professor, Pharmacology & Toxicology. Jordan's research investigates the relationship between circadian rhythm and cardiovascular health. Circadian rhythm is the body's internal clock that follows a 24-hour cycle associated with mental and physical systems, and dysregulation of this internal clock may lead to negative cardiovascular outcomes.

A mentor is an individual who guides someone who is less experienced by building trust and modeling positive behavior. A mentor is dependable, engaged, authentic, and tuned into the mentee's needs. At mentoring's core, it is insurance that someone cares about you and your growth as you journey through your professional endeavors.

Through my experiences in research, my mentor, Dr. Dan Rudic (Professor, Pharmacology & Toxicology), has been diligent in making certain I am the utmost prepared for the tasks I must manage while conducting experiments. Dr. Rudic has helped me gain various perspectives in subjects pertaining to our research and helpful lab skills that are not traditionally taught in my college major courses. Dr. Rudic gets satisfaction learning that he is helping undergraduates accomplish their own professional targets. He has become a second father to me. He is extremely easy-going and is not afraid to have deep conversations about things outside of what we're researching. When it comes to research, however, I'm always amazed at how knowledgeable and enthusiastic he is on our studies. I'm forever grateful to have a mentor like Dr. Rudic and I truly hope others feel the same way about their mentors as well.

CURS is extremely proud to foster the connections made between our researchers and their mentors. We recognize the dedication and hard work that mentors provide to be a critical ingredient in the development and success of their mentee and we thank you for what you do!

 Like (1)

CURS News

Summer Scholars Program 2023 - Call for Proposals

Deadline: January 4th 11:59 PM EDT

The Center for Undergraduate Research & Scholarship (CURS) is pleased to announce a call for proposals for our Summer Scholars Program (SSP) sponsored by the Provost and the Vice Provost for Instruction.

The goals of the program are:

1. To provide intentional mentoring and professional development through collaborative research and creative scholarship;
2. To increase opportunities for underrepresented students to become actively engaged in research and creative scholarship;
3. To provide undergraduates with intensive experiential learning through engagement in research and creative scholarship;
4. To support high impact scholarly activity that yields significant student development and academic achievements while furthering the research productivity of Augusta University.

Dates:

The SSP will run two sessions to accommodate both those who desire a shorter or longer scholarly experience during the summer.

Session 1 (9 week): May 22 - July 21, 2023 (9 weeks)

Session 2 (5 week): May 22 - June 23, 2023 (5 weeks)

For more information, please review the full [Call for Proposals](#).

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Last Call for Research Distinctions Fall 2022 Graduates

The Center for Undergraduate Research and Scholarship offers two academic research distinctions to all eligible undergraduate students of all majors: **Distinction in Research** and **Distinction of Excellence in Research**. Both distinctions celebrate a student's active engagement in the process of discovery, investigation, and innovation far above and beyond the baccalaureate degree. Distinctions are noted on the official transcript, and students will receive a lavender honor cord in recognition for the Distinction in Research and a medallion for the Distinction of Excellence to be worn during graduation. Click [here](#) for more information.



Eligibility:

- Current AU undergraduate student in good academic standing
- Completed minimum of 60 hours at AU
- Minimum overall GPA
 - Distinction: 3.0
 - Distinction in Excellence: 3.4

Due Date for Distinction for Fall Graduation is December 1st, 2022.

Apply for distinction [here!](#)

 Like (0)

Spring 2023: CURS Course Registration

Jan 13th deadline

Enrollment time for Spring 2023 is here! All undergraduate students participating in research need to be registered in either a CURS or departmental 2990, 3990, or 4990 course. If you are starting undergraduate research OR CONTINUING research in the spring, please email curs@augusta.edu to be registered.

Faculty, if you plan on mentoring a student in the spring and they need to be registered for an X990 course this spring. Please email curs@augusta.edu so we can get them registered.

All undergraduate researchers should also [share their research experience with the CURS office](#) so we know more about you and your project.

Registration deadline (add/drop date) for Spring 2023 is January 13th.

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**Initial Chemical Safety Training SPRING 2023**

All undergraduate students completing research with chemicals for the **FIRST TIME** at Augusta University are **REQUIRED** to complete initial chemical training. CURS will be hosting a training with the Chemical Safety Office on Friday, January 20th from 2-4 PM in CB 2401.

[Students need to RSVP for the event.](#) Please share this information with colleagues and students.



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Upcoming CURS Events**Save the date: CURS GAME NIGHT!**

Join CURS for free food, fun, and games on Friday, November 18th, from 6:00-9:00 PM in Allgood Hall E330.

CURS Movie Night

Join CURS for popcorn and a movie on Friday, December 2nd, from 6:00-9:00 PM in University Hall 170.

We will be on the third floor of Allgood Hall playing games with CURS Ambassadors, Student Assistants, and the rest of our team. Grab your friends and enjoy this free event!

Bring your friends and a blanket and join the CURS Ambassadors, Student Assistants, and the rest of our team for a holiday movie and popcorn!

CURS T-shirts For Sale



The CURS Office is selling T-shirts. Each shirt costs \$15. Stop by Allgood Hall E330 and pick up your shirt today!

CURS Calendar

- November 18 - CURS Game Night
- November 24-25 - Thanksgiving Holiday; Office Closed
- November 30 - Georgia Bio Career Development Interactive Experience
- December 1 - Deadline for Fall Graduates to apply for Research Distinctions
- December 7 - Last Day of Classes
- December 8 - Reading Day
- December 16 - Fall Semester Graduation

Follow [CURS on Instagram](#) for more updates.

CURS is located in Allgood Hall, Third Floor Research Suite, E330.

Please stop by or make an appointment through [Navigate](#).

curs@augusta.edu | (706) 729-2904

linktr.ee/CUR.S



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