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THE UNIVERSITY OF ARIZONA



August 2024

Goodbye summer, hello fall!



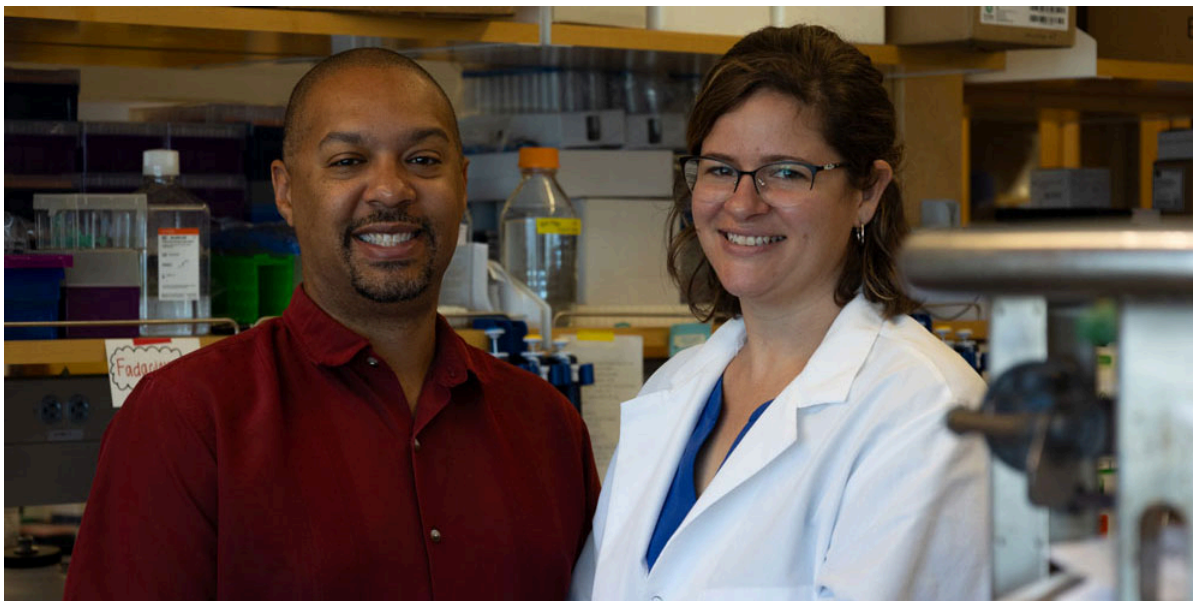
Hello ,

We are thrilled to welcome students back to our campus! Although at BIO5, we have been busy all summer (and so have our incredible student workers!).

Our fall is filling up with events and activities for our researchers and the community. Keep an eye on our [calendar of events](#) and this newsletter as we continue to add more in the coming weeks.

In this newsletter, learn about our Keating Family BIO5 Professor, see how BIO5 engages with students, and read about the world's fastest electron microscope.

Featured Stories



Michael D.L. Johnson awarded second year as BIO5 distinguished professor

An associate professor in immunobiology, Johnson continues his interdisciplinary research, collaboration and mentorship as the Keating Family BIO5 professor for a second year. Johnson has elected to use the professorship funds to hire a research professional to focus on laboratory management and training for incoming scientists.

[READ MORE](#)



Reflecting on professional growth at the BIO5 Institute: Q&A with Shiv Shukla

University of Arizona undergraduate Shiv Shukla reflects on how his experience as an BIO5 Ambassador intern and student staff shaped his career goals in business and science.

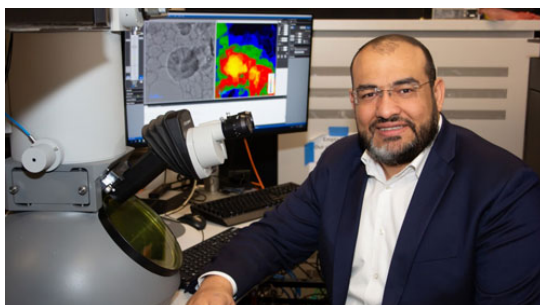
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Finding skills and support system as a BIO5 student worker

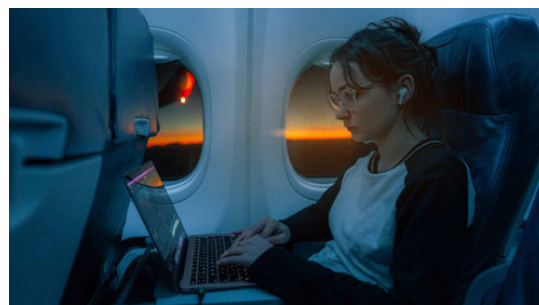
Two University of Arizona undergraduates describe how their experiences working in marketing, business, and programming at the BIO5 Institute helped them personally and professionally.

[Listen to Science Talks Episode 59](#)



Freeze-frame: U of A researchers develop microscope that can see electrons in motion

Imagine owning a camera so powerful it can take freeze-frame photographs of a moving electron. Researchers led by BIO5 member



Circadian rhythm disruption linked to lung inflammation

At the University of Arizona Health Sciences Center for Sleep, Circadian and Neuroscience Research, BIO5 member **Sairam Parthasarathy** and his fellow researchers are examining how disrupting circadian rhythm—the

Mohammed Hassan at the University of Arizona have developed the world's fastest electron microscope that can do just that.

[Read in UA News](#)

physical, mental and behavioral changes that happen on a natural 24-hour cycle—affects human health.

[Read in U of A Health Sciences](#)



Pursuit of a Valley fever vaccine passes significant milestone

A big step for Valley fever research involving multiple BIO5 members, **John Galgiani**, **Marc Orbach**, and **Lisa Shubitz**, as a new National Institutes of Health funding advances a human vaccine candidate, the world's first vaccine against a fungal infection.

[Read in UA News](#)



For researcher, fight against cancer is personal

Though cancer has had a profound and prominent role in his life, BIO5 member **Curtis Thorne**, associate professor in the Department of Cellular and Molecular Medicine at the College of Medicine – Tucson and a member of the U of A Cancer Center, initially resisted being a cancer researcher.

[Read in U of A Health Sciences](#)

In The News

Getting drugs into the brain is hard. Maybe a parasite can do the job

BIO5 member **Anita Koshy** provides her expertise on *Toxoplasma gondii* and how it could potentially be used for drug delivery.

[Read in Science News](#)

C-Path's TRxA announces \$250,000 award for drug development project in ALS

Critical Path Institute's (C-Path) Translational Therapeutics Accelerator (TRxA) announced a new research grant awarded to former BIO5 member **Daniela C. Zarnescu** and current member **Jon Njardarson**.

[Read in C-Path](#)

How skin cells are delivering clues to the mystery of Parkinson's

BIO5 member **Lalitha Madhavan** describes how a simple extraction of skin cells can uncover biomarkers that could help doctors diagnose Parkinson's disease in their patients.

[Listen on AZPM](#)

Upcoming



Wellness & Wonder Day

September 21, 9:00 a.m. to 2:00 p.m.

U of A Health Sciences Campus

Join BIO5 for art in science and STEAM activities for a day of science outreach and community events.

[More Information](#)



Research & Innovation Showcase

October 8, 2:30 p.m. to 4:00 p.m.

Thomas W. Keating Building Lobby & Room 103

With a goal of promoting collaboration across the university, we welcome Arizona faculty, students, and staff to present their research.

[More Information](#)

Behind-the-Scenes



We were thrilled to present to over 70 BIO5 members on August 28.

Twice a year, we welcome BIO5 members across campus to join us for lunch as we discuss BIO5 Institute successes, updates, and what to look forward to in the upcoming semester.

Membership at the BIO5 Institute is a non-salaried, non-tenure eligible, faculty joint appointment. Our members are interested in promoting the research and innovation U of A mission, and these appointments recognize, encourage, and advance collaboration between researchers.

[Learn more about BIO5 membership](#)

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Land Acknowledgment

We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.