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THE UNIVERSITY OF ARIZONA



September 2024

Exciting news and upcoming events



Hello Caroline,

The fall semester is flying by even if the temperatures are still high.

We are so proud of our BIO5 staff, Kelle Hyland, program manager of outreach and engagement for our KEYS Research Internship. She was honored on September 18 as the **2024 AZBio Bioscience Educator of the Year**. Congrats, Kelle!

Next up on October 8 is our **annual Research & Innovation Showcase**. Come listen to lightning talks and see posters from interdisciplinary research projects across the U of A campus.

In this newsletter, read about the team behind collaborative women's health research, listen to how computer science and ecology merge to study infectious disease, and find out how mating can cause changes at the molecular level.

Featured Stories



BIO5 Institute's Kelle Hyland honored as 2024 AZBio Bioscience Educator of the Year

An integral part of the BIO5 Institute's KEYS Research Internship program for the past 8 years, **Kelle Hyland** has been recognized for her extraordinary leadership and dedication by the Arizona Bioindustry Association.

[READ MORE](#)



Photo Gallery: KEYS alumni and staff shine at 2024 AZBio Awards

A record number of KEYS alumni presented their research as the biosciences community recognized Kelle Hyland for her outstanding leadership in science outreach and education.

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Collaborative teamwork untangles complex web of chronic pelvic pain and endometriosis

A pilot study co-led by 2023 BIO5 Postdoctoral Fellow **Nicole Jimenez** at the University of Arizona College of Medicine – Phoenix brings together a diverse team to lay the groundwork for linking the microbiome to poorly understood gynecologic conditions.

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Merging computer science and ecology to better understand infectious disease

With a goal to make a difference in the world, Dr. **Liliana Salvador** leverages her computational skills to study the ecological, evolutionary, and behavioral mechanisms in the transmission of zoonotic tuberculosis.

[Listen to Science Talks Episode 60](#)



The molecular magic of mating

A study led by BIO5 member **Luciano Matzkin** studied the reproductive tissues of female flies to see if the act of mating can cause bodily changes at a molecular level, uncovering that females create their own male-derived, female translated proteins after mating.

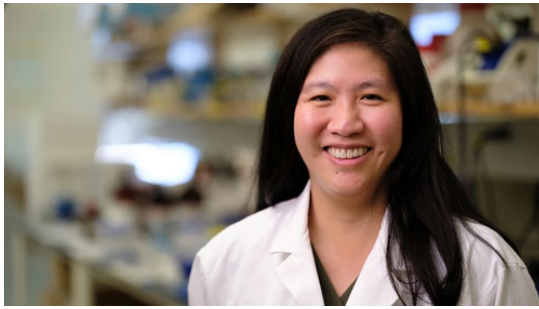
[Read in U of A News](#)



Women in Medicine and Science - Tanya Kalin, MD, PhD

Read a profile of BIO5 member **Tanya Kalin** on how she studies normal lung tissue's ability to heal and prevent fibrosis and other chronic lung diseases at the University of Arizona College of Medicine – Phoenix.

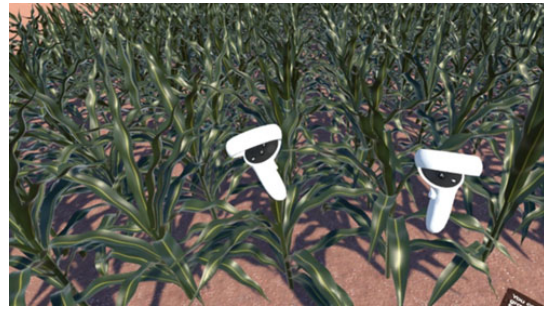
[Read in College of Medicine – Phoenix](#)



Researchers take power and efficiency of biological sensing to record level

BIO5 member **Judith Su**, associate professor of biomedical engineering and optical sciences, leads research on the development of a new biological sensing method that can detect substances at an astonishingly miniscule amount.

[Read in U of A News](#)



U of A partners on project combining AI, virtual reality and agriculture

Using data collected from agricultural sensors, BIO5 member **Nirav Merchant** along with a team of other researchers are creating a tool that combines virtual reality and artificial intelligence to analyze large datasets.

[Read in U of A News](#)

In The News

University of Arizona researchers seeking approval for Valley fever vaccine for your dog

BIO5 member **John Galgiani** and a team of researchers are hopeful the federal government will approve a vaccine for canines by next year.

[Read in Arizona Republic](#)

Uncovering hidden pollution in the Arctic

Pollution from the military has gone unnoticed for decades, but now BIO5 member **Frank von Hippel** is working with Native American tribes to clean it up.

[Listen on AZPM](#)

Tucson Airport Authority tracking PFAS on its grounds

BIO5 member **Paloma Beamer** discusses how PFAS can affect health at extremely low concentrations while the TAA investigates these chemicals on its property.

[Read on KOLD](#)

Upcoming



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.

[Register](#)

Behind-the-Scenes





We welcomed 80 guests on September 21 for the Wellness & Wonder event.

We participated in a day of science outreach and community events hosted on the University of Arizona Health Sciences campus. Families and kids especially enjoyed diving into the world of science and learning about the BIO5 Institute.

Our guests explored our 'Science in Art' exhibition, engaged with hands-on 3D research models, enjoyed science coloring for kids, and tested their taste buds with our 'supertaster' activity.

Thank you to everyone who joined us!

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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.