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THE UNIVERSITY OF ARIZONA



## January 2025

Exciting events coming up



**Hello Caroline,**

We're kicking off a busy spring full of events and programming.

We encourage students to attend our [Student Industry Networking Event on February 11](#), then invite the Arizona community to our second annual [Behind BIO5 on April 3](#). Join us for an evening of tours, fireside chats, and poster presentations where we give you an inside look into how the BIO5 Institute brings together interdisciplinary researchers to tackle grand challenges in health.

Support our KEYS Research Internship by [participating in Arizona Giving Day on February 13-14](#). Your generosity helps ensure that KEYS continues to provide meaningful research opportunities and guidance to students. We couldn't do it without your support!

In this newsletter, see how we facilitate networking with industry, meet a KEYS student empowered to study neuroscience, and discover how copper can be 'weaponized' against antibiotic-resistant bacteria.

## Featured Stories



### See how faculty and industry spark innovation

Over 40 Arizona bioscience industry representatives and University of Arizona researchers mingled at the fifth annual Faculty Industry Networking event last November. Learn about their motivations to attend the event.

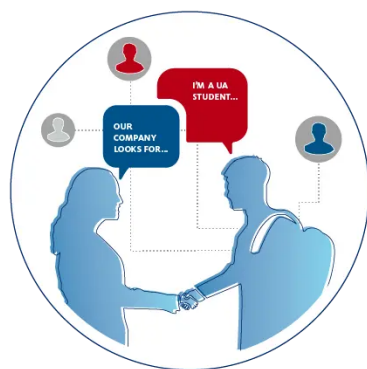
[READ MORE](#)

## Bugs, neuroscience, and empowerment: Zachary Boydell (KEYS '24)

Growing up in Vail, Zachary Boydell pushed himself out of his comfort zone to apply for the KEYS Research Internship and discover a passion for neuroscience that led him to attend the University of Arizona.

[READ MORE](#)

### Upcoming



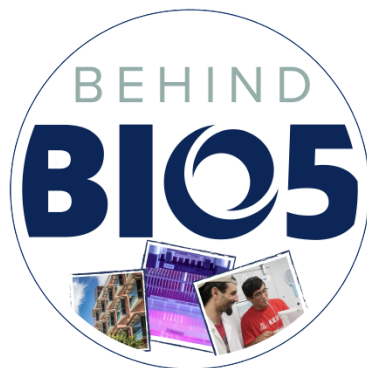
#### Student Industry Networking Event 2025

**February 11, 1:00 p.m. to 6:30 p.m.**

**Thomas W. Keating Building Lobby & Room 103**

University of Arizona students are invited to meet representatives from the Arizona biosciences industry to learn more about internships and careers in this virtual and in-person event.

[More Information & Registration](#)



#### Behind BIO5 2025

**April 3, 4:30 p.m. to 7:00 p.m.**

**Keating Building & Bioscience Research Laboratories**

Save the date! Join us for an evening of tours, fireside chats, and poster presentations where we give you an inside look into how we bring together interdisciplinary researchers to tackle grand challenges in health.

[More Information](#)

### In The News



### **\$1.9M NIH grant will allow researchers to explore how copper kills bacteria**

BIO5 member **Michael D.L. Johnson** and his lab will use his recent NIH grant to continue his research studying how copper can be used to fight antibiotic-resistant bacteria, including exploring what makes bacterial cells vulnerable to copper.

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



### **A FRESH approach: Nutrition researcher partners with community organizations**

BIO5 member **Melanie Hingle** works with El Rio Health and the Community Food Bank of Southern Arizona to combine culinary medicine and community-based healthcare to provide medically tailored food boxes and educational support to food insecure individuals.

[Read in College of Agriculture, Life & Environmental Sciences](#)



### **Research shows PTSD, anxiety may affect reproductive health of women firefighters**

BIO5 members **Jeff Burgess** and **Leslie Farland** are part of a study that found PTSD and anxiety among women firefighters reduce anti-



### **The future of pregnancy care: Erickson's pursuit of safer, personalized treatments through science and innovation**

BIO5 member **Elise Erickson** is a maternal health researcher studying oxytocin response, biological age,

Müllerian hormone levels, potentially impacting a women's fertility and ability to have children.

and AI-based pregnancy predictions to improve maternal healthcare outcomes globally.

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

[Read in College of Nursing](#)

## Monarch butterfly population crisis sparks endangered species proposal

BIO5 member **Kathleen Prudic** discusses how a changing climate can impact pollinators, including monarchs.

[Listen on AZPM](#)

## 17 little-known symptoms of Parkinson's disease that don't include shaking

BIO5 member **Julie E. Miller** and her lab discovered a link between a Parkinson's disease gene and speech change.

[Read in Yahoo News](#)

## Alcohol and cancer: 5 things to know about the surgeon general's advisory

BIO5 member **Cynthia Thomson** is hopeful the advisory will increase more widespread conversations about alcohol's health dangers.

[Read in the Arizona Republic](#)

Behind-the-Scenes



## January 2025 BIO5 Membership Meeting

We hosted our biannual BIO5 membership meeting on January 13, with 51 members joining us in-person and virtually across Tucson and Phoenix.

One of the exciting parts of these meetings are the 2-minute pitch presentations, where our members introduce themselves and their research. These presentations not only highlight the incredible work happening at BIO5, but also served as a platform to foster collaboration and spark new ideas among members.

We're proud to be part of such a vibrant community, thank you to all who joined us.

## Share with a friend!

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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.*