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THE UNIVERSITY OF ARIZONA



October 2024

Exciting events and awards



Hello Caroline,

Thank you to all who attended our annual BIO5 Research and Innovation Showcase earlier this month — we had an amazing turnout and encourage you to [take a look at the photo gallery](#).

We're already planning for the summer with our 2025 KEYS Research Internship applications opening November 1. In the meantime, read about [how KEYS helped U of A junior Mariam Rana become an advocate for research](#).

In this newsletter, congratulate Women of Impact awardees, listen to how we can tame technology like AI, and welcome our new BIO5 Ambassador interns!

Featured Stories



Photo Gallery: BIO5 Research and Innovation Showcase sparks scientific synergy

On October 8, over 115 University of Arizona researchers gathered to network over posters, lightning talks, and refreshments in the Thomas W. Keating building of the BIO5 Institute.

[READ MORE](#)



Research advocate and enthusiastic Wildcat: Mariam Rana (KEYS '22)

Local Tucsonan **Mariam Rana** found the confidence through the BIO5 Institute's KEYS Research Internship to champion research experiences for fellow undergraduate students at the University of Arizona.

[READ MORE](#)

Seven BIO5 members honored as 2024 Women of Impact

Congratulations to **Erika Eggers, Lisa Elfring, Kirsten Limesand, Kathleen Rodgers, Janet Roveda, Lisa Shubitz, and Stacy Tecot** on their awards.

[READ MORE](#)



Taming technology, from stone tools to artificial intelligence

Inspired by the creative potential of technology, **Ash Black** educates students and works with researchers on AI and extended technology at the University of Arizona.

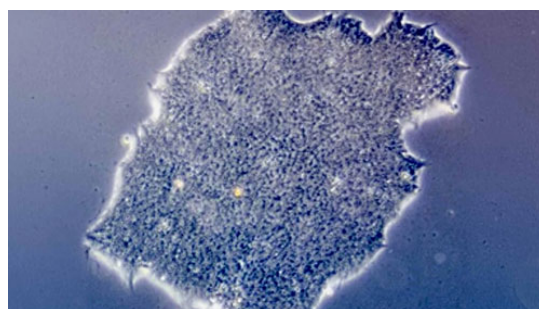
[Listen to Science Talks Episode 61](#)



Where the wild food grows

BIO5 member **Cynthia Thomson** received the Lifetime Achievement Award at this year's University of Arizona Cancer Center Awards Dinner. For several decades, Thomson has changed the lives of patients, cancer survivors, students and colleagues through her passion for cancer prevention and compassion for people.

[Read in Cancer Center](#)



Scientist hopes to cure Type 1 diabetes by disguising stem cells

Working with BIO5 member **Deepta Bhattacharya**, researcher **Hannah Pizzato** is focused on developing a stem cell-based therapy for Type 1 diabetes at the U of A Health Sciences Center for Advanced Molecular and Immunological Therapies.

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



\$2.5M NSF-funded engineering program at U of A focuses on student strengths, not knowledge deficits

BIO5 member **Vignesh Subbian** is the project lead for the eCAMINOS program, which is expected to encourage more undergraduates to begin and complete engineering degrees in the next few years and ultimately fill gaps in the workforce.

[Read in U of A News](#)



Making a commitment to connect people through technology

New BIO5 member **Justin Starren**, former medical doctor turned data scientist, has spent 30 years linking people, systems, and organizations. Earlier this year, he became the director of the Center for Biomedical Informatics and Biostatistics.

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

In The News

Expanding research techniques to fight Alzheimer's

BIO5 member **Ying Hui Chou** discusses how Transcranial Magnetic Stimulation can be a potential treatment for Alzheimer's patients.

[Listen on AZPM](#)

Study opens way for using antifibrotic drugs to prevent metastasis

BIO5 member **Ghassan Mouneimne** discusses a recent study that defines a pathway towards more personalized and lower-cost treatment for breast cancer.

[Read in Cancer World](#)

Measuring light pulses at super high speeds

BIO5 member **Mohammed Hassan** is developing instruments that can detect light pulses in attoseconds, providing a new tool to measure quantum states of matter.

[Listen on AZPM](#)

Upcoming



Faculty Industry Networking Event 2024

November 20, 5:30 p.m. to 7:30 p.m.

Arizona Sands Club Sky Box

Are you a University of Arizona faculty looking to connect with representatives from Arizona biotech companies? Join us for this exciting networking and learning opportunity!

[More Information](#)



Tucson Plant Breeding Institute 2025

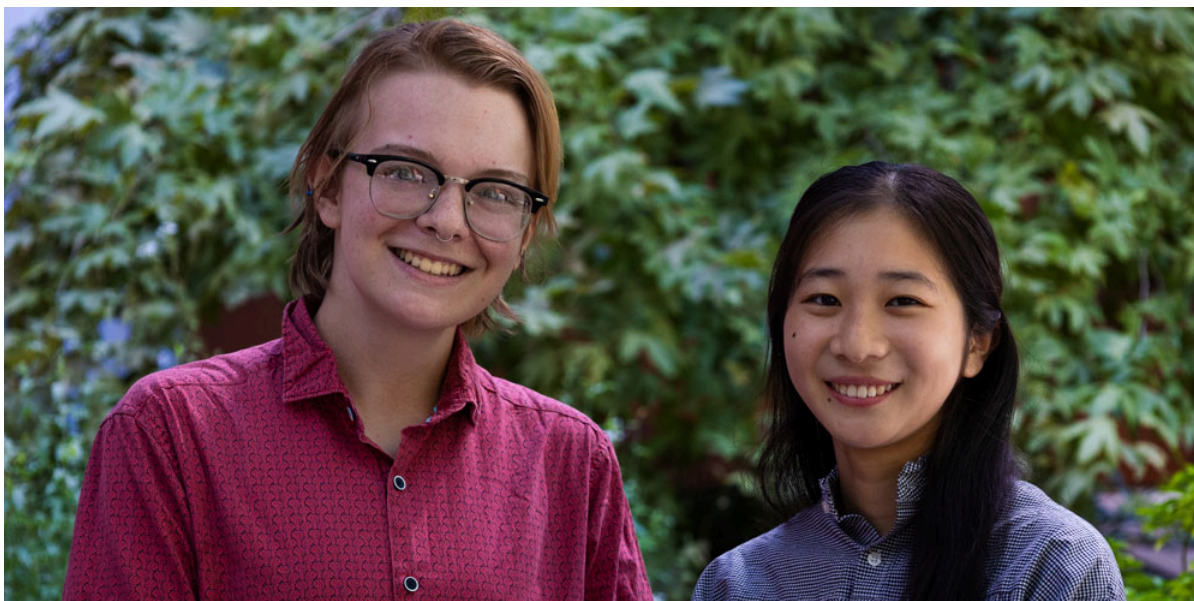
January 6 - 10, 8:00 a.m. to 5:00 p.m.

Thomas W. Keating Building Room 103

From commercial breeders in industry to faculty and students at the U of A, this event is meant to transfer current technologies and state-of-the-art training in plant breeding.

[More Information & Registration](#)

Behind-the-Scenes



Welcome to our 2024 - 2025 BIO5 Ambassadors!

Sam Rose Shawley(they/them) and Hanami Inagaki (she/her) and will be working with public affairs team at the BIO5 Institute in marketing, communications, and event planning.

The BIO5 Ambassadors Internship program is entering its eighth year as an internship, providing University of Arizona undergraduate students the opportunity for an inside view of BIO5.

Each ambassador is matched with a mentor from the BIO5 staff and exposed to the business and outreach side of the research institute.

We're excited to see Hanami and Sam develop their projects with their BIO5 staff mentors! [**Read more about our newest ambassadors.**](#)

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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. The university strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.