



# Research, Innovation & Impact

## University of Missouri

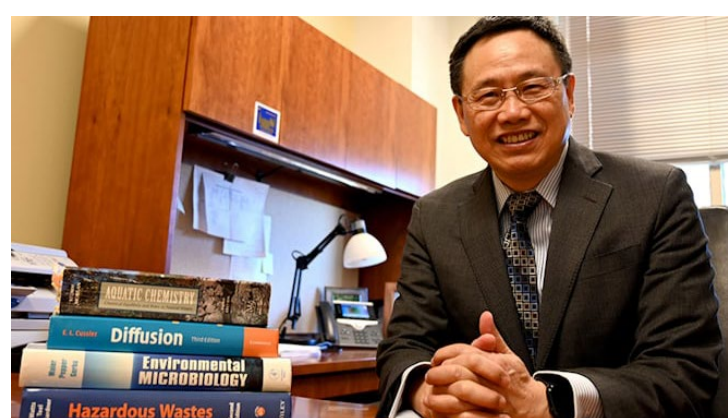
March 2024



# YEAR IN REVIEW

## Milestones and momentum

Mizzou marked its 10th consecutive year of growth with record research expenditures in FY 2023. Learn how investigators, scholars and creators improved quality of life, expanded horizons of what is achievable and added to the university's 185-year legacy of pioneering work in the latest annual report.



## Ensuring a safer world

Professor Baolin Deng has been advancing water quality research at MU for more than 20 years and recently helped shape the university's new environmental engineering degree. Learn more in our Q&A.



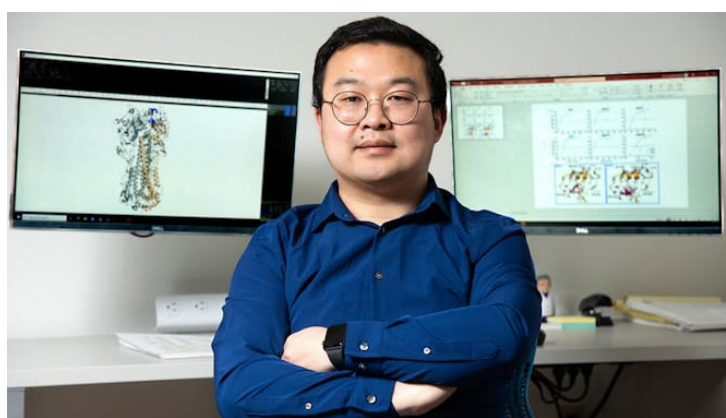
## Investing in investigators

The Division of Research awarded the third of four rounds of Research Council Grants last month bringing the total number of funded projects to 36. Faculty Aileen Garcia, left, and Libby Cowgill were among the recipients.



## Customized imaging study

MU is partnering with Bayer to study whether smart technology that personalizes contrast dosing improves the quality of CT scans. Radiologists often inject patients with contrast dye to show tissue differences in the body.



## A better flu shot

Cheng Gao, a Ph.D. candidate at the Bond Life Sciences Center, developed a new method that uses machine learning to identify flu viruses for quicker vaccine development. Nature Communications published his work.

## Professional development

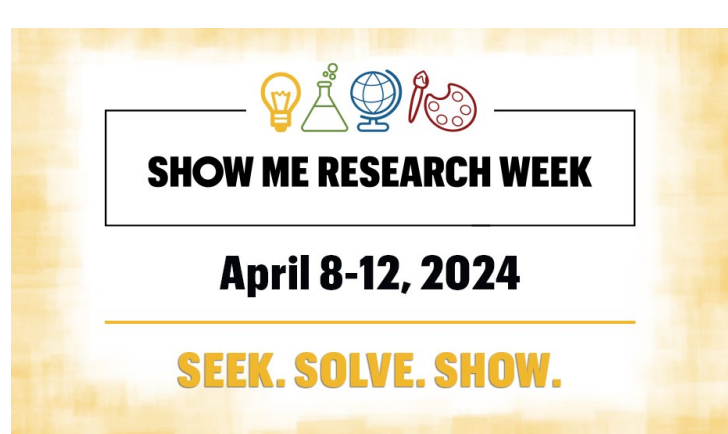
Check out [research support resources](#) and [workshops](#) from MU Libraries including:

- **March 7, 1-2 p.m.** (virtual) — [Open Access Publishing Pre-Prints and Post-Prints: The Legalities of How to Use Them to Increase Citations](#)
- **March 13, 1-2 p.m.** (virtual) — [Needle in the Haystack Searches](#)
- **March 20, 1-2 p.m.** (159 Ellis Library) — [Geospatial Analysis With Kepler](#)

**March 20, noon** (virtual) — [Foundation Funding 101](#) will feature information about private foundations and services offered by MU's Foundation Relations team. ([Register](#))

**April 11, noon** (virtual) — Learn about [Dimensions: The Largest Scientific Database](#), available to the MU community in April. It includes searchable publications, published grants, filed patents and more. ([Register](#))

## Resources and opportunities



## Seeking presenters, judges

Celebrate research and creative achievements.

- [Students and postdocs can register](#) their oral presentations and research posters until **noon March 13**.
- [Volunteer to be a judge](#).
- [See ideas for assignments](#).

## Nominate a colleague for national recognition

The National Science Foundation is seeking candidates for the National Medal of Science. Please consider nominating a Mizzou scientist or engineer by **May 5**. Attend a webinar about the award and nomination process at **10 a.m. March 12**. ([Register](#)).

## View January awards

Mizzou Tigers won funding from external sponsors for projects in anthropology, education, engineering, medicine, plant science, public policy, rural health and other areas.

## Important Dates

### Deadlines

#### Research Council Grants

**March 12:** Applications due by 5 p.m. [Email questions to Internal Funding staff](#).

#### Institutional Biosafety Committee (IBC)

**March 18:** Submit research protocols for April 18 meeting.

#### Institutional Review Board (IRB)

**March 25:** [Submit](#) human subject research applications, amendments and annual updates for April 10 full board review.

#### Biomedical entrepreneurship training

**March 30:** [Submit application](#) to participate in NIH Biomedical Entrepreneurship Training Program for Aging.

#### Limited submissions funding

**April 8:** [National Institute of Food and Agriculture Research Grant Program](#)

**May 27:** [NIH Assessment of Climate at Institutions \(Act\) Award](#)

### Events

#### Columbia Young Scientists Fair and Expo

**March 9, 1-4:30 p.m.** (Stotler Lounge and 2nd floor, Memorial Union North) – Hands-on science and technology activities for all ages

#### HRPP/IRB Research Compliance Seminar

**March 11, 2 p.m.** (virtual) – MU Research Recruitment Methods and Advertisements ([Request Zoom link](#))

#### Extra Credit film series

**March 11, 6 p.m.** (Ragtag Cinema) – "Cry Baby" film and panel discussion

#### NextGen Precision Health Discovery Series

**March 12, noon** (Atkins Family Seminar Room, NextGen building or virtual) — The Holy Grail: Therapy and Mechanism of Spinal Muscular Atrophy ([Register](#))

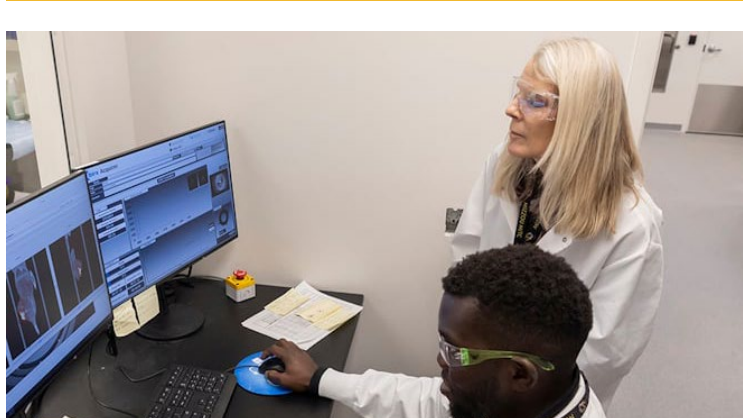
#### Grant Connections meeting

**March 27, 10 a.m.** (virtual) – Principal Investigator Compliance Reports ([Zoom link](#))

#### Saturday Morning Science

**March 30, 10 a.m.** (Ragtag Cinema) – Graduate students will share research on solar eclipses, treating pollution and plant diversity.

## Things to Know



## Adding a radioisotope to the cancer toolkit

MU researchers Carolyn Anderson and Heather Hennkens are studying terbium-161 with the hope that it could be the next major radioisotope used in cancer treatments. Above, Anderson and graduate student Ejike Iweha work at MU's Molecular Imaging and Theranostics Center.

[More research news](#)



## Middleton's research receives national recognition

John Middleton, professor of food animal medicine and surgery, received the 2024 National Mastitis Council Award of Excellence for his sustained research on mastitis prevention and control. Middleton is the university's chief of staff and associate vice president for academic affairs.

[More accolades](#)

### Division of Research, Innovation & Impact

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### Quick Links

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