



Research, Innovation & Impact

University of Missouri

April 2023



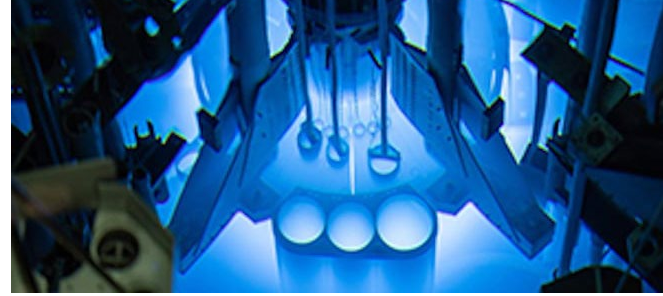
Exploring MU science and technology up close

About 600 children and parents attended [The Connector's](#) Columbia Young Scientists Expo, which connects the community with MU research and creative activity. See photos from the event.



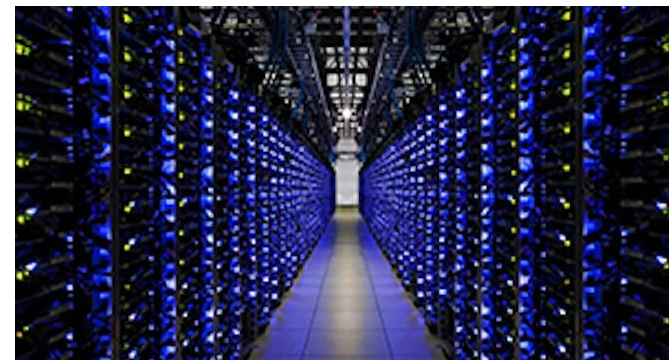
Precision treatment for deafness

A new gene therapy that uses MU technology to restore hearing in those with congenital deafness was cleared by the FDA for a pediatric clinical trial.



Producing more nuclear medicines

MU announced an initiative to build NextGen MURR, a new, larger research reactor that will expand critical cancer-fighting research and medical isotope production.



Go further, faster with Hellbender

UM System researchers will have access to next-generation storage and computing technology thanks to Hellbender, a new high-power computing environment.



Launching Mizzou Tiger ingenuity

Three student teams won a combined \$30,000 in funding for their businesses at the March 21 Entrepreneur Quest pitch competition. Get the scoop on their ventures.

Event Preview



Crocodiles, birds and dinosaurs? Oh my!

MU's popular Saturday Morning Science series returns with Casey Holliday, associate professor of pathology and anatomical sciences, **10 a.m. April 15**, Ragtag Cinema.



More than 470 students to share research, creativity

Dive into this campuswide event **April 17–21** and hear from two psychological sciences majors who will be participating. [Here are seven things to know about the week.](#)



NSF director to speak at inaugural President's Distinguished Lecture

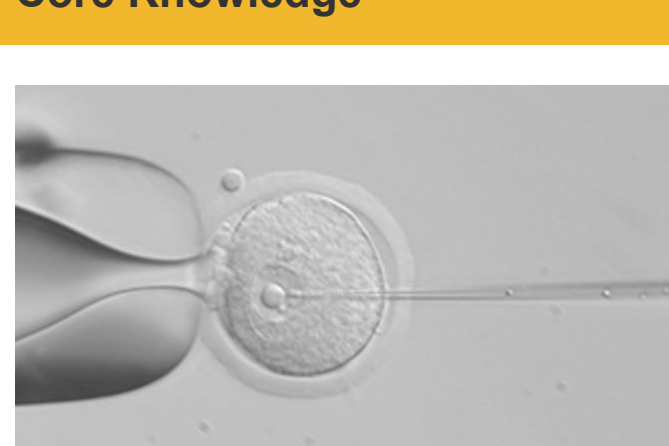
Sethuraman Panchanathan, director of the National Science Foundation (NSF), will present "Innovation Anywhere, Opportunities Everywhere: Accelerating the Frontiers of Science and Technology" at **10 a.m. April 24**, Monsanto Auditorium, Bond Life Sciences Center. [RSVP by April 14.](#)



Research division hosting keynote speaker, faculty recognition

Join us at **3:30 p.m. May 1** in Monsanto Auditorium for a Faculty Recognition Reception and keynote featuring Alejandro Sánchez Alvarado, executive director and chief scientific officer at the Stowers Institute for Medical Research. [RSVP by April 21.](#) See other [Faculty Excellence Week](#) events.

Core Knowledge



Gene editing for a cure

The Animal Modeling Core helps researchers edit DNA to test treatments for and understand genetic diseases.

Division Reminders

How to apply for NSF Research Instrument funding

NSF's Major Research Instrumentation Program supports the acquisition and development of scientific and engineering instruments. To be considered for this limited submission opportunity, submit a concept paper by **May 1**.

Tips for data management sharing plans

The Sponsored Programs Administration has assembled best practices, tools and budget considerations to help investigators comply with requirements from different research sponsors.

Meet with proposal illustrator

Need help with your grant proposal graphics or figures? Office hours with the [Strategic Proposal Development Service](#) illustrator and designer are **noon–1 p.m.** on the second Friday of each month. [Drop in via Teams](#) on **April 14** or [email Samantha Peters](#) for more information.

Seeking NSF Graduate Research Fellowships applicants

Please encourage juniors, seniors, incoming or first-year graduate students interested in or pursuing a research-based graduate degree in a STEM field (including the social sciences) to attend one of the Office of Global and National Fellowship's [NSF GRF outreach events](#) on **April 20 and 27**.

Professional Development

From Mizzou:

Research Analytics Competitive Intelligence Spotlight, **noon May 18** (virtual) – Learn about competitive intelligence services and insights. [\(Register\)](#)

[Watch videos](#) of past workshops brought to you from the MU Libraries, including Where to Publish Your Research and Maximizing Your Research Identity and Impact.

External opportunity:

Share your research through the visual arts. [Submit images](#) for the [BioNexus KC Science2Art](#) exhibit by June 9.

Important Dates

Deadlines

Institutional Biosafety Committee (IBC)

April 18: Submit research protocols for May 18 meeting.

Institutional Review Board (IRB)

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

Limited Submissions Funding

May 1: NSF Major Research Instrumentation Program, [Track 1 \(\\$100K to \\$1.4M\)](#)

May 1: NSF Major Research Instrumentation Program, [Track 2 \(\\$1.4M to \\$4M\)](#)

May 1: NSF Major Research Instrumentation Program, [Track 3 \(\\$100k to \\$4M\)](#)

[Learn how to submit concept paper.](#)

Events

HRPP/IRB Research Compliance Seminar

April 10, 2 p.m. ([Request Zoom link](#)) – Attend External Sponsors: IRB Requirements; [access previous seminar recordings.](#)

Extra Credit film series

April 10, 6 p.m., Ragtag Cinema – Watch "Waterworld" and enjoy a panel discussion with MU researchers.

NextGen Precision Health events

April 13, noon–1 p.m., Atkins Family Seminar Room or virtual – [Overcoming Challenges of Using Swine Models](#) for Neurodegenerative Diseases ([Register](#))

Things to Know

Around campus

- Wendy Picking, professor of veterinary pathobiology, [secured a \\$3.8 million grant](#) from the National Institutes of Health to develop a vaccine preventing hospital-acquired infections.
- Rob Myers, director of MU's Center for Regenerative Agriculture, is leading a \$10 million grant from the National Institute of Food and Agriculture [to improve agricultural practices](#) during severe weather and a warming climate.
- The College of Agriculture, Food and Natural Resources partnered with a state agency and a nonprofit to launch a new [Institute of Fisheries, Wetlands and Aquatic Systems](#).
- [Recent studies from Finance Department faculty](#) Sima Jannati, Matteo Binfarè, Adam Yore and Jing Wang cover financial decision-making, endowment investing, corporate governance and improving mortgage services.
- School of Medicine researchers Esma Yolcu and Haval Shirwan [have developed a process](#) for marking transplanted donor bone marrow cells, which ensures the immune cells only attack cancerous cells but not healthy tissue.
- Caixia "Ellen" Wan, associate professor of biological and biomedical engineering, is using a \$2.4 million USDA grant [to develop a process](#) to convert food wastes into biodegradable plastics.
- [More research news](#)

Accolades

- MU's [news release](#) about long COVID symptoms uncovered in a study conducted by engineering Professor Chi-Ren Shyu and clinical neurology Professor Adnan Qureshi and their team appeared in more than 500 stories in the media, including [NBC News-TODAY](#). To share your research with the public, [contact the News Bureau](#).
- Wendy Reinke, associate vice chancellor for research and a Curators' Distinguished Professor in the College of Education and Human Development, received a 2023 [SEC Faculty Achievement Award](#).
- The American Institute for Medical and Biological Engineering [elected Kattesh V. Katti](#), Curators' Distinguished Professor of Radiology and Physics, to its College of Fellows.
- [More accolades](#)

Division of Research, Innovation & Impact

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