



# Research, Innovation & Impact

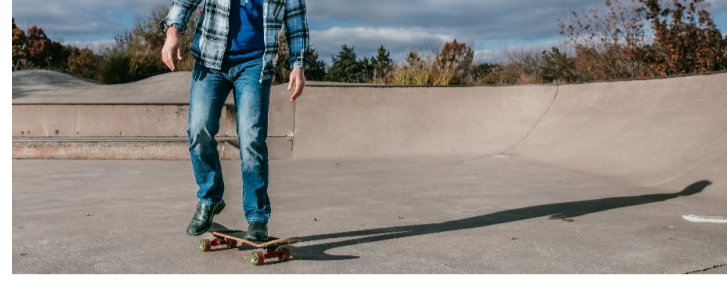
University of Missouri

November 2023



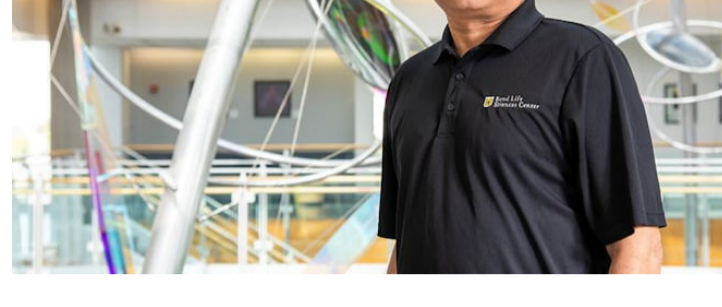
## Trailblazing treatments

Associate Professor Teresa Lever, left, is developing tools to objectively diagnose and treat swallowing impairments associated with neurological diseases, cancer, genetic disorders and aging. Learn more about her innovative work.



## Dropping in

Education researcher Robert Petrone spent several summers studying youth labeled "at-risk" in an environment where they were having the most success — the skatepark. He shares his observations in his latest book, "Dropping In: What Skateboarders Can Teach Us About Learning, Schooling, and Youth Development."



## Engineering a new cancer immunotherapy

Paul de Figueiredo, a Bond Life Sciences Center researcher and Roy Blunt NextGen Precision Health-endowed professor of molecular microbiology and immunology, and his team are using a \$20 million grant to create a single-dose cancer treatment.



## View September awards

Investigators from MU Extension and nine colleges and schools won 89 grants and awards in September from federal, state and industry sponsors. Log in with your university credentials to see the list.



## Growing enterprises

New storefronts in the heart of campus offer students the chance to sell goods at the MU Student Center with support from Greg Bier and Kelly Mattas, who lead entrepreneurial programs in the Griggs Innovators Nexus.



## Team research

The ASH Scholars Program, led by the Honors College and the Office of Undergraduate Research, supports mentoring and research opportunities for student teams in the arts, social sciences and humanities.



## Save the date, March 22

Don't miss NextGen's interdisciplinary PATHWAYS symposium for UM System faculty, postdocs and graduate student researchers. [Submit poster presentation abstracts by Dec. 8.](#) Registration opens [Jan. 2.](#) [Sign up](#) for updates.

## Core knowledge



## Detecting disease

The Animal Infection and Monitoring Services core supports studies on a wide variety of bacterial and viral diseases. Located in the Laboratory for Infectious Disease Research, the core evolved to support the influx of investigators conducting SARS-CoV-2 research.

## Research resources

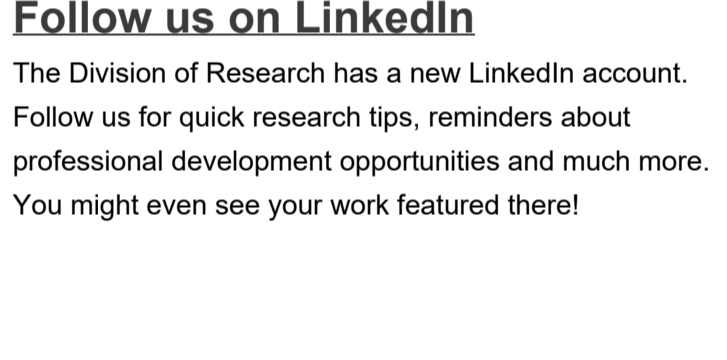
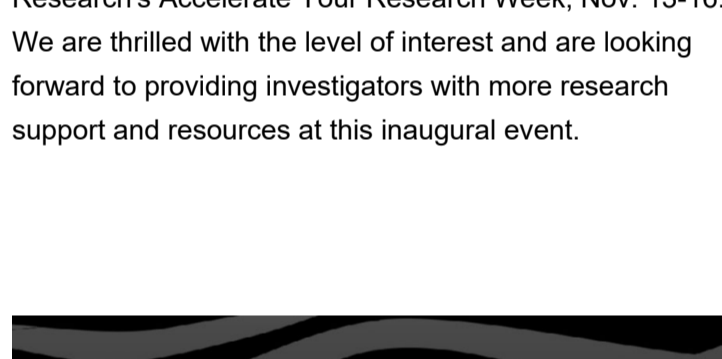


## Research Week at capacity

All sessions and workshops are full for the Division of Research's Accelerate Your Research Week, Nov. 13-16. We are thrilled with the level of interest and are looking forward to providing investigators with more research support and resources at this inaugural event.

## Follow us on LinkedIn

The Division of Research has a new LinkedIn account. Follow us for quick research tips, reminders about professional development opportunities and much more. You might even see your work featured there!



## Tell us your research story

The Division of Research wants to publish more stories highlighting you and your work. Interested in being featured? [Fill out our brief five-question survey.](#)

## Access resources for new NSF requirement

A Google folder containing FAQs, video tutorials and other helpful information is available for MU researchers navigating the National Science Foundation's requirement that their biosketch and current, pending and other support documents must now be submitted using the [SciENcv website.](#)

## NIH to change how grant proposals are scored

The National Institutes of Health will start using a simplified review framework in January 2025 to help peer reviewers focus on the key questions needed to assess the scientific and technical merit of proposed research projects.

## Professional development

On **Nov. 10**, applications will open for two [research development programs](#) that offer sustained support and training:

- **MU CAREER Club**, January-July 2024 cohort — Apply by **Dec. 15** to join this early career program where participants submit or resubmit a competitive proposal to the National Science Foundation's CAREER program.
- **Early Career Research Development Fellows Program** for pre-tenure faculty, 2024-26 cohort — Apply by **Jan. 22.**
- [Sign up](#) to be notified when future research development programs open.

**Nov 13, 2 p.m.** (virtual) – [HRPP/IRB Research Compliance Seminar](#): "How Does the IRB Determine if an Investigator or Site Is Engaged in Research?" ([Request Zoom link.](#))

**Nov. 14, 1 p.m.** (159 Ellis Library) – Learn "[Semantic Annotation with Recogito](#)," an award-winning open-source software that facilitates the tagging of named entities in texts and images and the export of data for use in other tools.

**Nov. 16, 10 a.m. to 4 p.m.** (Memorial Union North, Room N201) – The [Principal Investigator Leadership Program](#) teaches best practices in project management, meeting grant deliverables and team effectiveness. ([Register](#) by Nov. 10.)

**Nov. 29, 10 a.m.** (virtual) – [Grant Connections meeting](#): Learn "Best Practices for Senior Personnel and When Graduate Students/Postdocs Are Principal Investigators on Grants." ([Meeting Zoom link](#))

Mizzou Libraries has agreements with publishers to offer discounts and author processing charge support. [See which open-access journals are included.](#)

## Important Dates

### Deadlines

**Institutional Review Board (IRB)**  
**Nov. 25:** [Submit](#) human subject research applications, amendments and annual updates for full board review.

**Limited submissions funding**  
**Nov. 28:** Letter of intent deadline for the American Heart Association's [Strategically Focused Research Networks](#)  
**Dec. 18:** [NIH Blueprint and BRAIN Initiative Program](#) for Enhancing Neuroscience Diversity Through Undergraduate Research Education Experiences

**Institutional Biosafety Committee (IBC)**  
**Dec. 18:** Submit research protocols for Jan. 18 meeting.

**Research Council Grants**  
**Jan. 16:** Applications due by 5 p.m. Questions? [Email Internal Funding staff.](#)

### Events

**NextGen Precision Health Discovery Series**  
**Nov. 7, noon** (Atkins Family Seminar Room, NextGen building or virtual) – "[Developing a Microbial-Based Immunotherapy Against Pancreatic Cancer](#)"

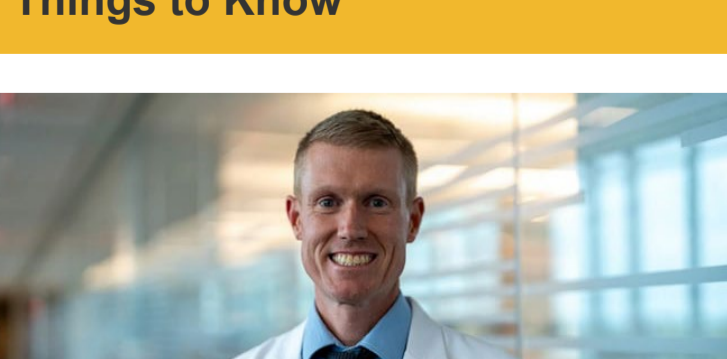
**Saturday Morning Science**  
**Nov. 11, 10 a.m.** (Ragtag Cinema) – Libby Cowgill, associate professor of anthropology, will present "Neandertals: The Other Humans."

**Forum on Electron Microscopy**  
**Nov. 13, 11:30 a.m. – 2:30 p.m.** (Atkins Family Seminar Room, NextGen building) – User meeting, lunch and core facility tours

**Extra Credit film series**  
**Nov. 13, 6 p.m.** (Ragtag Cinema) – "The Fast and the Furious: Tokyo Drift" and discussion

**Entrepreneur Quest finale**  
**Nov 28, 4 p.m.** (Monsanto Auditorium, Bond Life Sciences Center) – Students compete for \$30,000 in funding for their businesses.

## Things to Know



## Maintaining independence

Neuroscientist and physician W. David Arnold received a \$3 million grant from the National Institute on Aging to examine how motor neuron firing rates influence strength in older adults. His goal is to find new ways to optimize and maintain function and independence as we age.

[More research news](#)



## Celebrating faculty achievers

President Mun Choi, far right, and Provost Latha Ramchand, far left, recently hosted a celebratory reception for more than 100 faculty members who received promotions and/or tenure in the 2022-23 academic year. Above are faculty from the College of Education and Human Development.

[More accolades](#)

## Division of Research, Innovation & Impact

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