WashU McKelvey Engineering

Biomedical Engineering News, research and stories from Biomedical Engineering at WashU

March 2025

As we emerge from winter into a new season, this newsletter celebrates individual contributions from our WashU BME

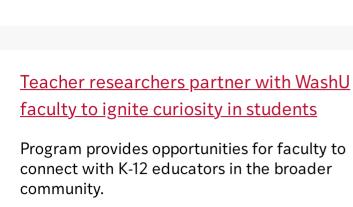
Dear Colleagues,

engineering community. Indeed, our success as innovators and change-makers and as providers of a highly valued education arise from our collaborative community of students, postdoctoral researchers and engaged faculty and staff committed to advancing the human condition. Read on for stories celebrating research advances in materials science and in strategies to diagnose and treat dementia, both powerful illustrations of how we are driven to improve lives through investment in research.

faculty, trainees and alumni that lead our biomedical



Lori A. Setton Professor and Chair Stories that matter



This year's Make-a-Thon yielded eight projects.

Students invent new adaptive tech

during 10-day Make-a-Thon blitz



Biomedical Engineering (BME) professor

an interview about his role as Chair of

the Faculty Senate Council (FSC).

Dennis Barbour sat down with Student Life for

Postdoctoral trainees share their experiences working in WashU's Department of Biomedical Engineering.

Postdoctoral scholars shape academic

life, bolster innovation and collaboration

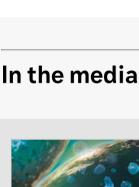


Biomedical engineering PhD alumna attributes her success in biotechnology to many mentors throughout life.

Young alumni

Metasebya Solomon

Our community



Postdoctoral scholars

Scientific American: Mysterious blobs found inside cells are rewriting the story of how life works Tiny specks called biomolecular condensates are leading

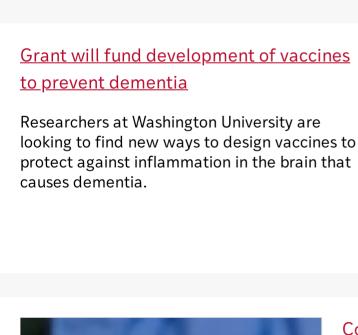
to a new understanding of the cell.

applications.

Full-time faculty



Research news



Colon polyps diagnosed more accurately

Quing Zhu leads team that developed custom

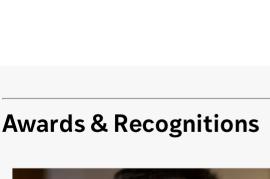
by adding OCT to colonoscopy

probe to better analyze polyps.

For success in bioelectronics, build with

Alexandra Rutz's lab creates bioelectronic scaffolds that would allow researchers to create new tissue with a host of potential

nature-inspired design



Electrochemical field key to how dementia precursors 'break bad'

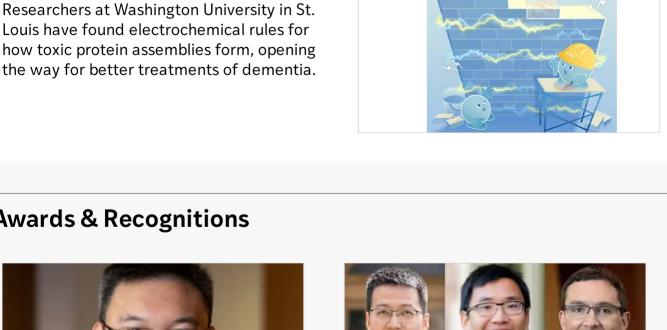
Researchers at Washington University in St. Louis have found electrochemical rules for

the way for better treatments of dementia.



Hu elected Fellow of Optica

Berkland named inaugural Mark and



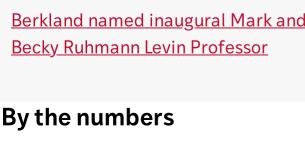
Farag, Mintz selected as Spencer T.

and Ann W. Olin Fellows

Six McKelvey Engineering faculty

among world's highly cited

researchers







Department of Biomedical Engineering McKelvey School of Engineering <u>bme.washu.edu</u>

Research awards

