

MU INNOVATORS WHO DISCLOSED INVENTIONS IN 2021

University of Missouri researchers who think they have an innovation with commercial potential submit a confidential [Invention Disclosure Form](#) to the [Office of Technology Advancement](#) team. This information helps the team evaluate inventions for novelty, utility and market potential. Mizzou researchers disclose more than 100 new inventions every year.

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A

Yaw Adu-Gyamfi, Assistant Professor of Civil and Environmental Engineering

Hadi Ali-Akbarpour, Assistant Research Professor of Electrical Engineering and Computer Science

Carolyn J. Anderson, Simon-Ellebracht Professor in Medicinal Chemistry; Professor of Radiology

Matthew Ashby, Research Specialist, Plant Science and Technology

B

Olga Baker, Professor of Otolaryngology and Biochemistry

Jonathan Bath, Assistant Professor of Surgery

Jennifer Bean, Associate Teaching Professor of Nutrition and Exercise Physiology

Eduardo Beche, Research Scientist, Plant Science and Technology

Amy Williams Braddock, Associate Professor of Clinical Family and Community Medicine

Derek Brake, Assistant Professor of Animal Sciences

John Douglas Brockman, Associate Professor of Chemistry

William G. Buttlar, Glen Barton Chair in Flexible Pavement Technology and Professor of Civil and Environmental Engineering

Richard Byfield, Doctoral Student, Mechanical and Aerospace Engineering

C

Chiswili Yves Chabu, Assistant Professor of Biological Sciences

Pengyin Chen, David Haggard Endowed Professor in Soybean Breeding

Shi-Jie Chen, Curators' Distinguished Professor of Physics and Biochemistry

Jianlin Cheng, William and Nancy Thompson Distinguished Professor of Electrical Engineering and Computer Science

Kai Wen Choo, Doctoral Student, Food Science

Gary Francis Clark, Associate Research Professor of Obstetrics, Gynecology and Women's Health

Michael Wayne Clubb, Senior Research Specialist, Plant Science and Technology

Christine Cole, Senior Research Associate, Plant Science and Technology

James L. Cook, Director of Thompson Laboratory for Regenerative Orthopaedics; William C. and Kathryn E. Allen Distinguished Chair in Orthopaedic Surgery

Damon Coyle, Simulation Innovation Specialist, Shelden Clinical Simulation Center

Melissa Crisel, Senior Research Associate, Plant Science and Technology

Nikole Cronk, Associate Teaching Professor of Clinical Psychology

Yuqi Cui, Assistant Research Professor of Cardiology

D

Joshua Dakota, Research Specialist, Plant Science and Technology

Kristen Deane, Associate Professor of Clinical Family and Community Medicine

Jared E. Decker, Wurdack Chair in Animal Genetics; Associate Professor of Animal Sciences

Baolin Deng, William Andrew Davidson Professor of Civil and Environmental Engineering

Guilherme N. DeSouza, Associate Professor of Electrical Engineering and Computer Science

Bishnu P. Dhital, Research Specialist, Plant Science and Technology

Dongsheng Duan, Curators' Distinguished Professor of Molecular Microbiology and Immunology; Margaret Proctor Mulligan Professor in Medical Research

E

Tojin Eapen, Assistant Professor of Marketing

F

Yujiang Fang, Visiting Professor of Surgery

Kevin Frazer, Associate Professor of Clinical Family and Community Medicine

G

John Michel Gahl, Professor of Electrical Engineering and Computer Science

Fabio Gallazzi, Associate Research Professor of Chemistry

Ryan Gettler, Doctoral Student, Chemical Engineering

Diana Gil Pagés, Associate Professor of Molecular Microbiology, Immunology, Surgery and Bioengineering

Kevin Gillis, Chair and Professor of Biomedical, Biological and Chemical Engineering

Timothy Glass, Associate Dean for Research, College of Arts and Science; Professor of Chemistry

David Alan Grant, Executive Director, BARDA DRIVe Midwest Bioaccelerator

Sheila Grant, Associate Vice Chancellor, MU Research and Strategic Initiatives; Professor of Biological and Biomedical Engineering

Li-Qun (Andrew) Gu, Professor of Biomedical and Biological Engineering

H

Chady Hakim, Assistant Research Professor of Molecular Microbiology and Immunology

Hong Hao, Assistant Research Professor of Medicine

Omiya Hassan, Doctoral Student, Electrical Engineering and Computer Science

Chandler Haxton, Research Lab Technician, Otolaryngology

Xiao Heng, Associate Professor of Biochemistry

I

Syed Kamrul Islam, Chair and Professor of Electrical Engineering and Computer Science

J

Soumen Jana, Assistant Professor of Biomedical and Biological Engineering

K

Raghuraman Kannan, Michael J. and Sharon R. Bukstein Chair in Cancer Research; Professor of Radiology and Biological Engineering

Kattesh V. Katti, Curators' Distinguished Professor of Radiology and Physics; Margaret Proctor Mulligan Professor in Medical Research

Kavita K. Katti, Senior Research Chemist, Radiology

Shahabeddin Keshavarz Mohammadian, Postdoctoral Fellow, Mechanical and Aerospace Engineering

Kun-Eek Kil, Assistant Research Professor of Radiochemistry and Radiopharmaceutical Chemistry

Allison Kolker, Assistant Professor of Clinical Family and Community Medicine

Jeong-Kyu (Abe) Koo, Associate Professor of Biochemistry

Richelle Koopman, Jack M. and Winifred S. Colwill Endowed Professor in Family and Community Medicine; Director of Family Medicine Research

Kiruba Krishnaswamy, Assistant Professor of Food Science and Biomedical, Biological and Chemical Engineering

Jae Wan Kwon, Professor of Electrical Engineering and Computer Science

L

William R. Lamberson, Assistant Dean of Special Projects and Professor Emeritus of Animal Sciences

Teresa E. Lever, Associate Professor of Otolaryngology

Michael R. Lewis, Professor of Veterinary Medicine and Surgery

Jian Lin, Associate Professor of Mechanical and Aerospace Engineering

Heidi Liu, Senior Scientist, Veterinary Pathobiology

Zhenguo Liu, Professor of Medicine; Margaret Proctor Mulligan Professor in Medical Research

Chris L. Lorson, Associate Vice Chancellor for Research; Curators' Distinguished Professor of Molecular Microbiology, Immunology and Veterinary Pathobiology

Zhijian Luan, Doctoral Student, Health Informatics

Dennis B. Lubahn, Professor of Biochemistry

M

Hongbin (Bill) Ma, Chair and Glen A. Barton Professor of Mechanical and Aerospace Engineering

Wenjun Ma, Associate Professor of Molecular Microbiology, Immunology and Veterinary Pathobiology

Sundararajan Mahalingam, Postdoctoral Fellow, Ophthalmology

Hamed Majidifard, Postdoctoral Fellow, Civil and Environmental Engineering

Bruce A. McClure, Professor Emeritus of Biochemistry

Christina McCrae, Professor of Clinical Psychology

Clinton Meinhardt, Senior Research Specialist, Plant Science and Technology

Blake C. Meyers, Professor of Plant Science and Technology

Morgan Miller, Doctoral Student, Mechanical and Aerospace Engineering

Wesley Moore, Senior Research Specialist, Plant Science and Technology

Laura Morris, Associate Professor of Clinical Family and Community Medicine

Abu Mosa, Assistant Research Professor of Health Management and Informatics

Azlin Mustapha, Professor of Food Science

N

Kihoon Nam, Assistant Research Professor of Otolaryngology

Alice Nguyen, Research Lab Technician, Plant Science and Technology

Cuong X. Nguyen, Postdoctoral Research Associate, Plant Science and Technology

Henry Thien Nguyen, Curators' Distinguished Professor of Plant Science and Technology

Thang Van Nguyen, Assistant Research Professor of Medicine

O

Lasun O. Oladeji, Resident Physician, Orthopaedic Surgery

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P

Xiufang Pan, Research Scientist, Molecular Microbiology and Immunology

Nikhila Paranamana, Doctoral Student, Chemistry

Chanwoo Park, Associate Professor of Mechanical and Aerospace Engineering

David J. Patterson, Chancellor's Professor of Animal Sciences

Tanmoy Paul, Doctoral Student, Electrical Engineering and Computer Science

Robert Pierce, Associate Professor of Clinical Family and Community Medicine

Randall S. Prather, Curators' Distinguished Professor of Animal Sciences

Elizabeth Prenger, Senior Research Specialist, Natural Resources

Michael Pun, Postdoctoral Fellow, Molecular Imaging and Theranostics Center

Santhoshkumar Puttur, Associate Research Professor of Ophthalmology

Q

Farhan Quadir, Doctoral Student, Computer Science

R

Deepthi Rao, Clinical Assistant Professor of Pathology and Anatomical Sciences

Praveen Rao, Associate Professor of Health Management, Informatics, Electrical Engineering and Computer Science

Alice Raphael Karikachery, Research Scientist, Radiology

Raj Shekhor Roy, Doctoral Student, Computer Science

S

Manobendro Sarker, Doctoral Student, Biological Engineering

Andrew Scaboo, Assistant Professor of Plant Science and Technology

Adam G. Schrum, Associate Professor of Bioengineering, Molecular Microbiology, Immunology and Surgery

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James Grover Shannon, Professor Emeritus of Plant Science and Technology

Krishna Sharma, Professor Emeritus of Ophthalmology and Biochemistry

Farhan Siddiq, Associate Professor of Neurological Surgery

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Charles J. Smith, Professor of Radiology

Matthew J. Smith, Clinical Associate Professor of Orthopaedic Surgery

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Elham Soltanikazemi, Doctoral Student, Computer Science

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Aaron M. Stoker, Associate Director of the Thompson Laboratory for Regenerative Orthopaedics; Research Professor in Orthopaedic Surgery

Dhananjay Suresh, Postdoctoral Fellow, Radiology

T

Velaphi Thipe, Postdoctoral Fellow, Radiology

Robert P. Thomen, Assistant Professor of Radiology

Kai Tian, Postdoctoral Fellow, Surgery

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U

Jeffrey K. Uhlmann, Associate Professor of Electrical Engineering and Computer Science

Bret Ulery, Associate Professor of Chemical Engineering

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V

Steven R. Van Doren, Professor of Biochemistry

Victoria J. Vieira-Potter, Associate Professor of Nutrition and Exercise Physiology

Tri D. Vuong, Senior Research Scientist, Plant Science and Technology

W

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Pengtao Wang, Postdoctoral Fellow, Mechanical and Aerospace Engineering

Michele R. Warmund, Professor of Plant Science and Technology

Kevin D. Wells, Associate Professor of Animal Sciences

Kristin M. Whitworth, Associate Director of Research Activities, National Swine Reproductive and Research Center

Quinton Wyatt, Doctoral Student, Chemistry

X

Dong Xu, Curators' Distinguished Professor and Paul K. and Dianne Shumaker Professor of Electrical Engineering and Computer Science

Jia Xu, Courtesy Appointment, Biochemistry

Xianjin Xu, Professor of Physics and Biochemistry

Y

Matthias J. Young, Assistant Professor of Chemical Engineering

Yongping Yue, Research Specialist Lead, Molecular Microbiology and Immunology

Z

Habib Zaghouni, J. Lavenia Edwards Chair in Pediatrics; Professor of Molecular Microbiology and Immunology

Hanwen Zhang, Graduate Student, Chemical Engineering

Xiaoqin Zou, Professor of Physics and Biochemistry