



# ANNUAL RESEARCH REPORT

OFFICE OF RESEARCH AND SPONSORED PROGRAMS

TOGETHER, WE'LL  
GUIDE THE  
FUTURE OF  
TOMORROW'S  
HEALTH CARE.

July 1, 2024 - June 30, 2025

## Historical Research Support and Activity Data

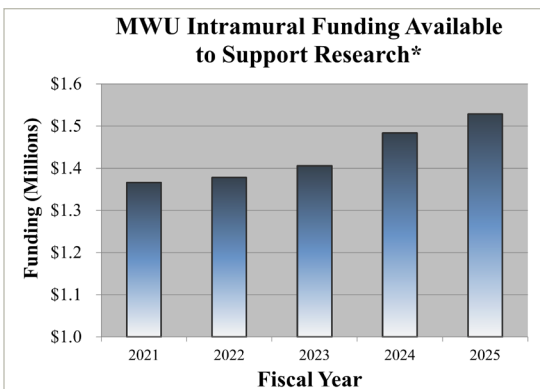
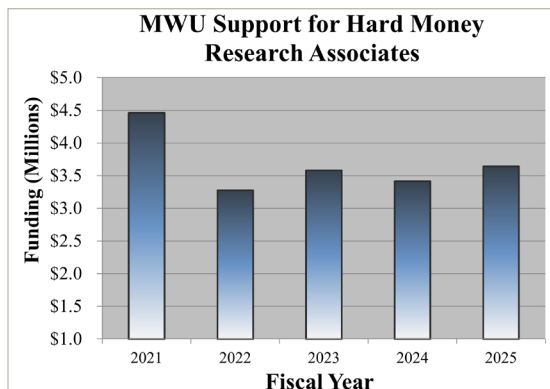
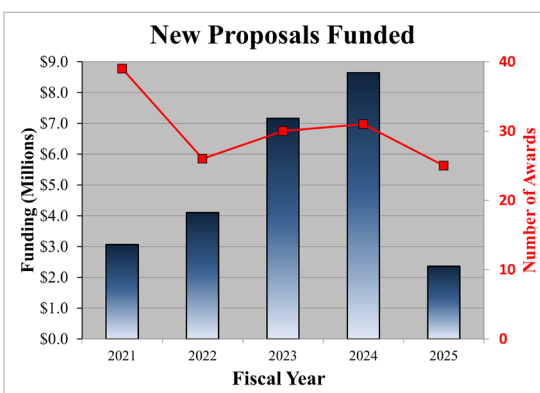
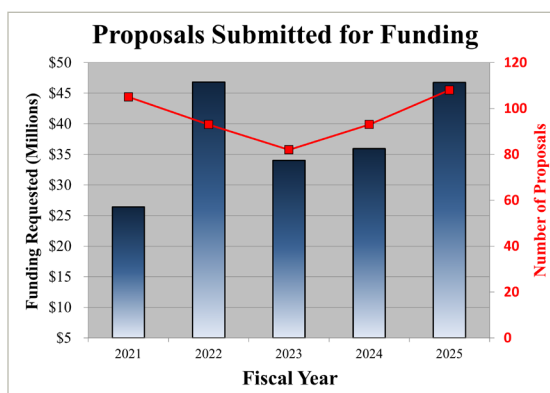
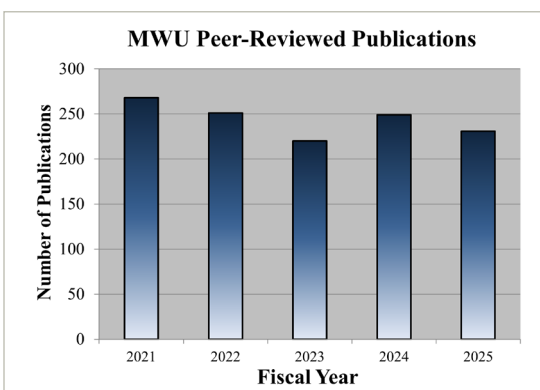
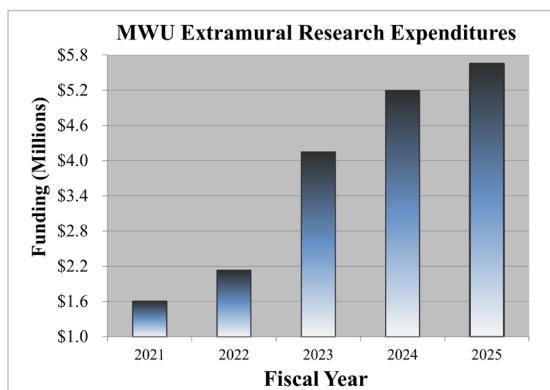
The Midwestern University (MWU) Annual Research Report demonstrates research achievements of which members of the MWU community should be proud. The graphs below show historical data over the last five years, highlighting the university's research activity and support. THANK YOU to all of MWU's faculty members, research staff and students whose efforts have consistently strengthened MWU's research programs.



James M. Woods, PhD  
Assistant Vice President of  
Research

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\*Includes intramural funding (grants, fellowships, travel, etc) provided to all MWU colleges and available from the ORSP

# Fast Research Facts 2024 - 2025

## Support for Faculty Research

- All Midwestern University (MWU) faculty are in 100% “hard money” (university-funded) positions, where they are encouraged but not dependent upon bringing in extramural funding
- Faculty who receive grants which support hard money salary positions can earn “additional compensation” through the MWU Recaptured Salary Incentive
  - § MWU faculty received \$458,430 in such incentives for FY 2025
- MWU provides hard money research technicians who directly work with faculty, including 59 Full Time Equivalents funded at \$3,637,856 for FY 2025
- New faculty are provided start-up packages
- Faculty can request capital research equipment through the university:
  - § MWU purchased \$1,040,233 in capital research equipment during FY 2025
  - § Each campus received a new confocal microscope in FY 2022 and FY 2023
- Intramural funding is available for faculty who actively seek extramural funding and for students applying for fellowships and travel, including \$1,528,013 awarded in FY 2025

## Support for Student Research

- MWU makes a significant commitment to student research, demonstrated through the awarding of 125 fellowships at a total cost of \$703,947 for research stipends in FY 2025
- MWU’s Research Days, held on each campus, had a total of 497 abstracts in 2025 where almost all of these were by students engaged in research
- MWU pays for high-quality poster printing for its students and faculty, including a budget of \$15,389 for printing research posters through the ORSP in FY 2025
- MWU supports students to travel and present their research data, including up to \$500 of support for first author students who have an abstract accepted at a national meeting

## Research Facilities

- In 2020 a new vivarium for animal research was opened on the Glendale campus which added 18,500 additional square feet of research space at a cost of \$9,250,000
- In FY 2024 and FY 2025 Research Operations made improvements on the Glendale campus, primarily in the Foothills Science Center totaling \$131,265:
  - § New breakroom for faculty, staff, and student researchers
  - § Renovated freezer farm area
  - § Additional back-up electrical power
  - § Replaced old break room and dark room with newly renovated lab space
- In FY 2025 Animal Facilities purchased and installed new animal caging:
  - § AZ: ventilated cage rack for mice and hamsters (\$64,964)
  - § IL: recirculating Xenopus housing rack and a fish dosing and alarm system (\$34,483)

## Office of Research & Sponsored Programs (ORSP)

- MWU's ORSP handles both pre-award and post-award grant and contract submissions, including 108 proposals submitted in FY 2025 requesting \$46,750,609
- MWU's ORSP offers intramural funds to all colleges and the following full time positions to support faculty research:
  - § A Grants Administrator, a Grants Specialist, and a Grants Manager to assist faculty with grant and budget preparation and grant submission
  - § Research Administrators on each campus to assist MWU's IACUC, IRB, Radiation Safety and Biosafety Committees
  - § A Manager of Bio/Clinical Statistics and a Data Analyst to assist with data management and statistical needs
  - § IP and Contracts Administrators on each campus to assist with legal agreements
  - § ORSP Associate Directors and Research Compliance Specialists on both campuses to help ensure MWU performs research in a manner compliant with federal, state and MWU regulations
- For faculty involved in animal research who are seeking extramural funding, the ORSP can waive animal *per diem* charges, including \$357,149 of waived charges in FY 2025
- In FY 2025, MWU's ORSP offered \$3,150 to support a Research Seminar Series where faculty can invite experts in their field for scientific presentations

## Funding Success

- MWU's extramural research expenditures during FY 2025 totaled \$5,649,929
- During FY 2025, MWU faculty were awarded federal funding from the NSF and NIH, including NIH R01, R03, R15, and R21 grants
- In addition, in FY 2025 MWU faculty have successfully obtained FDA, HRSA, and USDA grants
- MWU faculty have successfully obtained foundation grants from: American Heart Association, American Optometric Foundation, HonorHealth, Leakey Foundation, Marfan Foundation, PhRMA Foundation, PetSmart Charities, and National Association of Chain Drug Stores
- MWU faculty have successfully obtained industry grants from: Allecra Therapeutics, Boehringer Ingelheim, Eyenovia, Johnson & Johnson, Merck Sharp & Dohme, Nevakar, Hiossen, and Sangart
- MWU faculty have successfully obtained Arizona state grants and funding from: Arizona Biomedical Research Commission and Arizona Alzheimer's Consortium

## The Bottom Line

- Midwestern University is committed to building and sustaining an active and productive research environment
- Administrative support for research is very strong, because of a firm belief in the ingenuity of MWU faculty

### MULTIDISCIPLINARY: SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Struthers, J. & Olson, C.	CVM, CGS	Multiple	2025 Boehringer Ingelheim Veterinary Scholars Program	10/31/2024	\$32,700 (Includes a \$9,600 match from MWU)	Boehringer Ingelheim	1/1/2025

**Total of MULTIDISCIPLINARY Submitted Extramural Proposals: \$32,700**

### ARIZONA COLLEGE OF OSTEOPATHIC MEDICINE (AZCOM): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Middleton, T. & Greenwood, L.	AZCOM	Family Medicine	Residency Readiness Pilot Bootcamp Framework	8/1/2024	\$5,000	American Association of Colleges of Osteopathic Medicine	8/1/2025

**Total of AZCOM Submitted Extramural Proposals: \$5,000**

### CHICAGO COLLEGE OF OPTOMETRY (CCO): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Nadarajah, V.	CCO	Optometry	A Comparison of Soft Multifocal Contact Lenses Used for Myopia Management and Their Effect on Ocular Surface Health	10/31/2024	\$11,000	Dr. Newton K. Wesley Foundation	2/1/2025
Nadarajah, V.	CCO	Optometry	MiSight 1 Day Post-Approval Study for Effectiveness and Visual Symptoms	10/1/2024	\$575,000	CooperVision	2/5/2025

**Total of CCO Submitted Extramural Proposals: \$586,000**

### COLLEGE OF DENTAL MEDICINE-ARIZONA (CDMA): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Agostini-Walesch, G. & Schaffer, C.	CDMA	Dental Medicine	Chewing Gum Containing Hydroxyapatite, Xylitol, and Essential Oil for Caries Prevention	1/17/2025	\$2,700	American Association for Dental, Oral, and Craniofacial Research	4/1/2025
Mitchell, J. & Higby, A.	CDMA	Dental Medicine	Development of Bioactive Glass-containing Bonding Agents to Reduce White Spot Lesion Occurrence Following Orthodontic Treatment	1/17/2025	\$2,700	American Association for Dental, Oral, and Craniofacial Research	4/1/2025
Mitchell, J. & Parsa, K.	CDMA	Dental Medicine	A Materials Comparison of Three Commercially Available Alveolar Ridge Preservation Products	7/16/2024	\$3,078	Impladent, LTD	8/7/2024

**Total of CDMA Submitted Extramural Proposals: \$8,478**



## COLLEGE OF DENTAL MEDICINE-ILLINOIS (CDMI): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Sangalli, L.	CDMI	Dental Medicine	Feasibility of a New Methodology for Dental Education in Temporomandibular Disorders through Virtual Patient-Based Learning	7/3/2024	\$210,900	NIH R03 resubmission	4/1/2025
Sangalli, L.	CDMI	Dental Medicine	Testing the Effectiveness of a Virtual Patient-Based Learning Intervention for Orofacial Pain Education in a Predoctoral Dental Program	2/28/2025	\$3,000	American Academy of Orofacial Pain	5/1/2025

**Total of CDMI Submitted Extramural Proposals: \$213,900**

## COLLEGE OF GRADUATE STUDIES (CGS): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Al-Nakkash, L. & Broderick, T.	CGS	Physiology	Assessment of Inflammatory Pathways Involved in the Brain-Intestinal Axis in Western Diet Induced Alzheimer's Pathology	4/15/2025	\$7,300 (includes a \$2,897 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Bae, N.	CGS	Biochemistry & Molecular Genetics	Oxidative Stress Causes Increased Amyloid Peptide Levels Through Telomeric Protein, RAP1	4/15/2025	\$12,395 (includes a \$4,919 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Bussey, K.	CGS	Precision Medicine	Molecular Approach for Oropharyngeal Cancer Detection in Non-plasma Biofluid	9/13/2024	\$20,202	Flinn Foundation (subaward from Univ of AZ)	1/1/2025
Bussey, K.	CGS	Precision Medicine	Pulse Field Ablation, DNA methylation, Cytokine Analysis & Advanced Lung Cancer	3/3/2025	\$1,607	Respiratory Health Association (subaward from Univ of AZ)	7/1/2025
Carroll, D.	CGS	Biochemistry & Molecular Genetics	Identification of Signaling Molecules That Function at Fertilization	6/25/2025	\$489,777	NIH R15	7/1/2026
Carvalho-de-Souza, J.	CGS	Physiology	Dissecting the Role of the Glycocalyx in Cardiac Function	10/5/2024	\$415,067	NIH R01 (subaward from Univ of AZ)	7/1/2025
Carvalho-de-Souza, J.	CGS	Physiology	Glycocalyx Mechanosensing in Endothelial Cells	2/5/2025	\$114,361	NIH R01 (subaward from Univ of AZ)	9/1/2025
Carvalho-de-Souza, J.	CGS	Physiology	Glycocalyx Oxidative Signaling During Acute Heart Failure	2/13/2025	\$31,593	American Heart Association (subaward from Univ of AZ)	7/1/2025
Carvalho-de-Souza, J. & Al-Nakkash, L.	CGS	Physiology	Studies on Kv6.1 Silent Subunit Expression and Function in Hippocampal Neurons During Alzheimer's Disease	4/15/2025	\$22,782 (includes a \$9,041 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Ebeid, M.	CGS	Anatomy	Molecular Mechanisms Governing Mammalian Cochlear Development and Disease	2/5/2025	\$3,201,403	NIH R01	12/1/2025
Ebeid, M.	CGS	Anatomy	The Role of Inner Pillar Cells in Hair Cell Innervation	3/3/2025	\$90,909	Hearing Health Foundation	10/1/2025
Edwards, J.	CGS	Pharmacology	Effects of Diphenhydramine on Pancreatic Beta Cells	10/25/2024	\$518,448	NIH R15	7/1/2025
Ellermeier, J.	CGS	Microbiology & Immunology	Regulation of the Twin Arginine Translocation System by EnvZ/OmpR and LPS Biogenesis	10/25/2024	\$518,570	NIH R15	7/1/2025

## CGS: SUBMITTED EXTRAMURAL PROPOSALS (Continued)

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Esfandiarei, M.	CGS	Biomedical Sciences	Investigating the Impact of Fibrillin-1 Mutation on Ischemic Stroke and Brain Vasculature in a Mouse Model of Marfan Syndrome	10/23/2024	\$12,000	Marfan Foundation (subaward from Southern Illinois Univ)	7/1/2025
Esfandiarei, M.	CGS	Biomedical Sciences	Identifying the Mechanisms of Maternal Dietary Deficiencies in Choline on Female and Male Offspring Ischemic Stroke Outcome	2/25/2025	\$43,190	NIH R15 (subaward from Southern Illinois Univ)	12/1/2025
Gruszynski, K.	CGS	Public Health	Validation and Dissemination of an Interactive, Online Dashboard of Veterinary Workforce Deficits in the 13 States of Appalachia	10/3/2024	\$17,568	USDA NIFA (subaward from Lincoln Memorial Univ)	7/1/2025
Haley, N.	CGS	Microbiology & Immunology	Understanding the Impact of Selective Breeding on Chronic Wasting Disease Management in White-tailed Deer	3/31/2025	\$191,148	USDA APHIS	5/1/2025
Hawkey, A.	CGS	Biomedical Sciences	Developmental Toxicity of Neonicotinoids in the Context of Prenatal Nicotine Use: Modelling Mixture Effects in Zebrafish	6/16/2025	\$388,247	NIH R21 subaward to Clemson Univ (\$31,026)	4/1/2026
He, Y.	CGS	Precision Medicine	Epigenetic Regulation of Opioid Addiction by microRNA	6/25/2025	\$527,250	NIH R15 resubmission	4/1/2026
He, Y.	CGS	Precision Medicine	MicroRNA as a Novel Therapeutic Target for Pain in Sickle Cell Disease	10/2/2024	\$1,764,146	NIH R01 subaward to Univ of Illinois (\$171,125)	7/1/2025
He, Y.	CGS	Precision Medicine	Targeting Bile Acids Dysfunction for Chronic Pain in Sickle Cell Disease	6/5/2025	\$1,300,550	NIH R01 (subaward from Univ of Illinois Chicago)	4/1/2026
Hughes, T.	CGS	Public Health	Mild Cognitive Impairment: A Prospective Community Study	10/5/2024	\$227,580	NIH R37 (subaward from University of Pittsburgh)	3/1/2026
Hughes, T.	CGS	Public Health	The Opening Minds through Art Program with Unhoused Older Adults: An Implementation Pilot Study	4/15/2025	\$10,317 (includes a \$4,094 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Hull, E.	CGS	Biomedical Sciences	Elucidating a Mechanistic Link Between Progranulin & Lysosomal Function in Alzheimer Disease	4/15/2025	\$9,912 (includes a \$3,933 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Hull, E. & Leyva, K.	CGS	Biomedical Sciences	Non-coding RNA Regulation of the Progranulin Gene During the Inflammatory Response in Alzheimer Disease	2/21/2025	\$30,000	Arizona Alzheimer's Consortium	7/1/2025
Jauregui, E.	CGS	Physiology	Dissecting the Role of Lrh1 in Phthalate-related Reproductive Impairments: A Cellular and Molecular Approach	10/25/2024	\$521,995	NIH R15 subaward to St. Catherine University (\$128,423)	7/1/2025
Jentarra, G. & Jones, T. B.	CGS	Precision Medicine, Anatomy	Determination of Polymicrobial Burden in Two Postmortem Brain Regions in Ad Patients and Controls With Varying Levels of Ad-Related Pathology and Cognitive Status	4/15/2025	\$44,385 (includes \$26,000 salary and \$7,292 matches from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Kopf, P.	CGS	Pharmacology	The Pathophysiology of Moderately High Salt-Induced Hypertension	6/25/2025	\$521,581	NIH R15	4/1/2026
Kronstad, L. & Wellensiek, B.	CGS	Microbiology & Immunology, Biomedical Sciences	Improving the Immunogenicity of Influenza mRNA-based Vaccines by Harnessing Translation Enhancing Elements	11/14/2024	\$225,000	Arizona Biomedical Research Commission	7/1/2025
Lawson, K. & Bussey, K.	CGS	Biochemistry & Molecular Genetics, Precision Medicine	Investigating the Role of Stress Hormones on Astrocyte Neuroenergetics	4/15/2025	\$12,894 (includes a \$5,117 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025

### CGS: SUBMITTED EXTRAMURAL PROPOSALS (Continued)

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Lerner, J.	CGS	Biochemistry & Molecular Genetics	Divide and Conquer: Mitotic Regulation of Epigenetic Barriers to Cell Reprogramming	10/3/2024	\$1,721,402	NIH MIRA R35	7/1/2025
Lynch, L. & Heesy, C.	CGS	Anatomy	Resubmission: NSFDEB-NERC Determining the Interactions Between Phenotype, Behavior, and Environment as They Shape Carnivoran Endocast Morphology	11/18/2024	\$1,908,800	National Science Foundation	4/1/2025
Martinez-Guryn, K.	CGS	Biomedical Sciences	Collagenase Producing Bacteria as a Biomarker and Driver of Diet-Induced Colorectal Cancer Recurrence Following Surgery	12/10/2024	\$411,165	NIH R01 MPI (subaward from Univ of Chicago)	7/1/2025
Olson, C.	CGS	Physiology	Resubmission: Collaborative Research: High-frequency Vocal Behavior in a Tropical Hummingbird	9/20/2024	\$933,450	National Science Foundation	3/1/2025
O'Neill, M.	CGS	Anatomy	Collaborative Research: Integrating Experiments and Musculoskeletal Modeling of Foot Biomechanics in Humans and Chimpanzees to Enhance Reconstructions of Early Hominin Walking	1/31/2025	\$378,392	National Science Foundation	8/1/2025
Puthanveetil, P.	CGS	Pharmacology	Ethanol excess induced cardiac inflammation	9/12/2024	\$200,000	American Heart Association (AIREA)	1/1/2025
Puthanveetil, P.	CGS	Pharmacology	Ethanol Excess Induced Cardiac Inflammation and Injury	10/16/2024	\$132,926	NIH R03	4/1/2025
Puthanveetil, P.	CGS	Pharmacology	Ethanol Mediated Inflammation Induced Cardiac Injury and Pathological Remodeling	2/13/2025	\$300,000	American Heart Association (Transformative Project Award)	7/1/2025
Puthanveetil, P.	CGS	Pharmacology	Flavonoid Mediated Hormesis and Systemic Homeostasis	6/25/2025	\$519,130	NIH R15	4/1/2026
Riede, T.	CGS	Physiology	Generation of an Inducible Mouse Model to Investigate Disease Mechanisms in the Postnatal Respiratory Tract, Craniofacial, and Musculoskeletal Tissue	6/30/2025	\$171,532	NIH R21 (subaward from Cincinnati Children's Hospital Medical Center)	4/1/2026
Roberts, C.	CGS	Pharmacology	Creation and Characterization of In Vitro Cell Line Models for the Study of Antimicrobial Nephrotoxicity	2/16/2025	\$386,650	NIH R21	12/1/2025
Roberts, C.	CGS	Pharmacology	Efficacy and Mechanism of Marine Manzanamines for the Treatment of Advanced Ovarian Cancer	3/15/2025	\$25,000	Foundation for Women's Wellness	12/1/2025
Roberts, C.	CGS	Pharmacology	Efficacy and Mechanism of Marine Manzanamines for the Treatment of Advanced Ovarian Cancer	6/20/2025	\$50,000	Sandy Rollman Cancer Foundation	8/1/2025
Strizzi, L.	CGS	Pathology	Potential for DUSP Inhibition to Counter Therapeutic Resistance in Metastatic Melanoma.	12/6/2024	\$98,872	Elsa U. Pardee Foundation	12/1/2025
Samanta, D.	CGS	Microbiology & Immunology	Elucidating the Antimicrobial Effects of Short-chain Fatty Acids Against Coxiella Burnetii	10/16/2024	\$140,600	NIH R03	7/1/2025
Shim, M., Hull, E., & Eckman, D.	CGS	Biochemistry & Molecular Genetics, Biomedical Sciences	The Periphery of Alzheimer's Disease: Cross-talks Between Degenerating Brain and Peripheral Tissues	4/15/2025	\$12,390 (includes a \$4,917 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Stephenson, E.	CGS	Anatomy	Lysine Methyltransferase Regulation of Skeletal Muscle Glucose Metabolism	12/16/2024	\$40,000	NIH P30 (subaward from Univ of Chicago)	4/1/2025
Stephenson, E.	CGS	Anatomy	Understanding Differences in the Metabolic Adaptability of Highly Metabolic Tissues	3/14/2025	\$1,000	Proteintech North America	4/1/2025

### CGS: SUBMITTED EXTRAMURAL PROPOSALS (Continued)

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Sundaresan, S.	CGS	Physiology	Colonic Beta-Amyloid as an Early Diagnostic Marker for Alzheimer's Disease	10/16/2024	\$386,650	NIH R21	7/1/2025
Sundaresan, S.	CGS	Physiology	Intrinsic Primary Afferent Neurons in Regulation of Intestinal Nutrient Sensing and Obesity	3/5/2025	\$2,877,852	NIH R01 MPI resubmission subaward to VUMC (\$857,920) & MSU (\$223,543)	4/1/2025
Swanson, M.	CGS	Biochemistry & Molecular Genetics	Molecular Mechanisms of Altering Gamma Secretase Activity by Modulatory Proteins	4/15/2025	\$12,395 (includes a \$4,921 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Swanson-Mungerson, M.	CGS	Microbiology & Immunology	Advancing Immunology in Medical Education Through Computer Models and Simulations	7/25/2024	\$131,470	NIH R25 subaward from Univ of Nebraska-Lincoln	6/1/2025
Swartzendruber, J.	CGS	Microbiology & Immunology	Mechanism of Bacillus Subtilis-Mediated Protection in Murine Models of Allergic Disease	10/25/2024	\$523,880	NIH R15	7/1/2025
Terranova, J.	CGS	Anatomy	Neural Mechanisms of How Sleep Disruption Affects Fear Memory Reconsolidation and Reinstatement	3/12/2025	\$70,000	Brain & Behavior Research Foundation	1/15/2026
Tiwari, V.	CGS	Microbiology & Immunology	Significance of Sulfated-Heparan Sulfate During Entry of Feline Herpesvirus into Host Cell	10/25/2024	\$542,811	NIH R15 subaward to Univ of Georgia (\$144,554)	7/1/2025
Tiwari, V.	CGS	Microbiology & Immunology	Development of Helicase Primase Inhibitors for the Treatment of Genital Herpes	1/31/2025	\$175,000	NIH R21/R33 subaward from Washington University Medical School	12/1/2025
Tiwari, V.	CGS	Microbiology & Immunology	Structure-Function Analysis of Heparanome During HIV-Host Cell Fusion.	2/1/2025	\$175,000	Collaborative Development Awards-Duke University Center for HIV Structural Biology	4/1/2025
Traka, M.	CGS	Anatomy	Effects of Aging on Schwann Cell Regeneration	10/25/2024	\$527,250	NIH R15 resubmission	7/1/2025
Valenzuela, I.	CGS	Physiology	Effects of Parkinson's Disease on the Neuromuscular Junction of KI LRRK2 Transgenic Mouse	3/16/2025	\$370,298	NIH R21	4/1/2025
Ventrella, R.	CGS	Precision Medicine	Establishing Xenopus Laevis as an In Vivo Model System for Investigating the Effect of Photobiomodulation Therapy in Oral Mucositis	3/16/2025	\$277,140	NIH R03 resubmission	4/1/2025
Wellensiek, B.	CGS	Biomedical Sciences	Harnessing Translation Enhancing Elements to Boost SARS-CoV-2 Spike Expression From Recombinant Vaccinia Viruses	10/16/2024	\$157,311	NIH R03 subaward to Arizona State University (\$62,800)	7/1/2025

**Total of CGS Submitted Extramural Proposals: \$24,950,543**

### COLLEGE OF HEALTH SCIENCES-DOWNERS GROVE (CHS-DG): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Carroll-Alfano, M.	CHS-DG	Speech Language Pathology	Midwestern Speak Out Therapy Project	2/28/2025	\$13,300	Parkinson Voice Project	4/1/2025
Dart, L.	CHS-DG	Speech Language Pathology	Investigating Social Determinants of Health and Chronic Outcomes in Children with Traumatic Brain Injury and Their Families	4/16/2025	\$10,000	American Speech-Language-Hearing Foundation	12/1/2025



**CHS-DG: SUBMITTED EXTRAMURAL PROPOSALS (Continued)**

Robinson, M.	CHS-DG	Occupational Therapy	A Town Without Ageism: A Community-Based Approach to Reduce Ageism, Strengthen Positive Age Beliefs and Promote Social Connectedness	12/1/2024	\$20,000	Smith-Teiken Foundation (subaward from AgeOptions)	1/31/2025
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**Total of CHS-DG Submitted Extramural Proposals: \$43,300****COLLEGE OF HEALTH SCIENCES-GLENDALE (CHS-GD):  
SUBMITTED EXTRAMURAL PROPOSALS**

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Eikenberry, M.	CHS-GD	Physical Therapy	Characterization of Bilateral Ankle Mechanics Post-Stroke and its Relationship to Impaired Balance Control and Gait	5/7/2025	\$15,796	NIH R03 (subaward from Arizona State University)	12/1/2025
Menchola, M.	CHS-GD	Behavioral Sciences	Hispanic Outreach, Recruitment and Retention Program	9/6/2024	\$5,364	Arizona Alzheimer's Consortium (subaward from Banner Alzheimer's Institute - Tucson)	2/1/2025
Menchola, M.	CHS-GD	Behavioral Sciences	Hispanic Outreach Program	4/18/2025	\$13,260	Arizona Alzheimer's Consortium (subaward from Banner Alzheimer's Institute - Tucson)	7/1/2025
Menchola, M.	CHS-GD	Behavioral Sciences	Clinical Profiles and Predictors of Cognitive Performance in Plasma P-tau217 Positive Individuals in Memory Clinic and Research Settings	4/30/2025	\$6,630	Arizona Alzheimer's Consortium (subaward from Banner Alzheimer's Institute - Tucson)	7/1/2025
Morrow, M.	CHS-GD	Nurse Anesthesia	An Educational Program to Increase Point-of-care Ultrasound Use in Nurse Anesthesiologists: A Pilot Program	11/20/2024	\$6,390	American Association of Nurse Anesthesiology	12/15/2024
Trujillo, C.	CHS-GD	Occupational Therapy	Behavioral Health Workforce Education and Training Program for Professionals: Midwestern University OT-PRIME Program	1/21/2025	\$2,363,639	Health Resources and Services Administration	7/1/2025

**Total of CHS-G Submitted Extramural Proposals: \$2,411,079****COLLEGE OF PHARMACY (COP): SUBMITTED EXTRAMURAL PROPOSALS**

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Briyal, S.	CPDG	Pharmaceutical Sciences	Defining the Role of Endothelin B Receptors Agonism on Neuronal Regeneration and Functional Outcome Following Hypoxic-Ischemic Encephalopathy	10/16/2024	\$386,650	NIH R21	7/1/2025
Huang, V.	CPG	Pharmacy Practice	Burden and Management of Invasive Pneumococcal Disease in At-risk Adults: The Role of Ethnicity, Socioeconomic Status, and Vaccination Status	4/11/2025	\$26,828	Merck & Co.	1/1/2026
Huang, V. & Harris, S.	CPG	Pharmacy Practice	Evaluation of Various Dosing Strategies for Cefazolin and Ertapenem against Clinical Methicillin-susceptible Staphylococcus aureus (MSSA) Strains in an In-vitro Pharmacokinetic Model	9/1/2024	\$28,900	American College of Clinical Pharmacy Research Institute	12/1/2024
Olsen, M.	CPG	Pharmaceutical Sciences	Evaluation of ASPH Inhibitors for Canine Osteosarcoma	11/27/2024	\$42,552	Morris Animal Foundation	6/1/2025
Olsen, M.	CPG	Pharmaceutical Sciences	Evaluating ASPH as a Biomarker in Melanoma: Expression Patterns, Prognostic Value, and Biosafety	11/27/2024	\$220,000	Arizona Biomedical Research Centre (subaward from Phoenix Children's Hospital)	6/1/2025

### COP: SUBMITTED EXTRAMURAL PROPOSALS (Continued)

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Olsen, M.	CPG	Pharmaceutical Sciences	Evaluation of Aspartyl(asparaginyl)-beta-hydroxylase (ASPH) as a Target for the Treatment of Pediatric Sarcomas	11/14/2024	\$75,000	Sarcoma Foundation of America subaward to Phoenix Children's Hospital (\$13,507)	7/1/2025
Olsen, M.	CPG	Pharmaceutical Sciences	Design, Synthesis and Testing of Novel Compounds for the Treatment of Alzheimer's Disease	4/15/2025	\$7,230 (includes a \$2,869 match from MWU)	Arizona Alzheimer's Consortium	7/1/2025
Pais, G.	CPDG	Pharmaceutical Sciences	Defining the Exposure Threshold for Cefepime and the Role of its Metabolites in Cefepime-Induced Neurotoxicity	3/16/2025	\$401,334	NIH R21 resubmission subaward to Florida State Univ (\$38,083)	12/1/2025
Rhodes, N. J.	CPDG	Pharmacy Practice	Combating Emerging Beta-Lactam Resistance: Integrating Genomic Surveillance, PK-PD Modeling, and Machine-Learning Prediction (BEACON)	3/26/2025	\$385,328	NIH P01 CARBIRUs (subaward from Univ of Pittsburgh)	3/1/2026
Scheetz, M.	CPDG	Pharmacy Practice	Markers of Nephrotoxicity During Treatment with Antibiotic Combinations: The MONACO clinical trial	7/5/2024	\$153,251	NIH R01	4/1/2025
Scheetz, M.	CPDG	Pharmacy Practice	Toward a Clinical Trial to Test the Impact of Precision Perioperative Tacrolimus Dosing on Post-Lung Transplant Kidney and Allograft Complications	10/16/2024	\$51,804	NIH R34 (subaward from Univ of Pennsylvania)	7/1/2025
Scheetz, M.	CPDG	Pharmacy Practice	Chrono-Dynamic Outcome Probabilities (CDOP): A Novel Framework to Optimize Antibiotic Efficacy and Safety for Multi-Drug Resistant Pathogens	12/10/2024	\$3,668,066	NIH R01 MPI with subaward to Univ Florida (\$1,837,431)	7/1/2025
Scheetz, M.	CPDG	Pharmacy Practice	Enhancing Precision Use of Beta-lactam Antibiotics in Immunocompromised Children	2/16/2025	\$27,376	NIH R21 (subaward from St. Jukes Children's Research Hospital)	12/1/2025
Scheetz, M.	CPDG	Pharmacy Practice	Drug Efficacy and Endotracheal Pharmacokinetics (DEEP)	3/13/2025	\$460,084	NIH R01 MPI (subaward from Children's Hospital of Philadelphia) (CHOP)	1/1/2026
Scheetz, M.	CPDG	Pharmacy Practice	Antibiotic Dosing for Life-Threatening Infections in Pediatric Leukemia and Hematopoietic Cell Transplantation: Moving Beyond a One-Size-Fits-All Approach	3/31/2025	\$19,472	Alex's Lemonade Stand Foundation Research Grant Program (subaward from St. Jukes Children's Hospital)	10/1/2025
Scheetz, M.	CPDG	Pharmacy Practice	Strategies to Avoid Drug Induced Kidney Injury in the Treatment of Multi-Drug Resistant Pathogens	4/10/2025	\$406,703	NIH R21 resubmission subaward to CHOP (\$47,131)	12/1/2025
Scheetz, M., & Rhodes, N.J.	CPDG	Pharmacy Practice	Integrated Program for Overcoming Carbapenem Resistance in Pseudomonas aeruginosa: A Translational Approach	3/26/2025	\$11,387,291	NIH P01 CARBIRUs subaward to Univ of Florida (\$2,108,587), Northwestern Univ (\$1,989,190), Children's Hospital of LA (\$562,460), Case Western Univ (\$250,750), & Loyola Univ (\$114,430)	12/1/2025
Schumacher, C.	CPDG	Pharmacy Practice	Optimizing Medication Management for Families Managing Early-stage Dementia and Multiple Chronic Conditions	6/5/2025	\$79,990	NIH R01 (subaward from NU)	4/1/2026
Wang, S.	CPDG	Pharmacy Practice	Increasing Public Awareness of Antimicrobial Resistance through Art	3/14/2025	\$2,500	Society of Infectious Diseases Pharmacists	5/1/2025
Yao, M. & Elbayoumi, T.	CPG	Pharmaceutical Sciences	Assessment of Therapeutic CD47-based Nanomedicine to Neutralize Pathological TSP 1-Induced Acute and Chronic Renal Vascular Damages Following Ischemia-Reperfusion Injury in Pre-clinical Models	10/25/2024	\$421,800	NIH R15	7/1/2025

**Total of COP Submitted Extramural Proposals: \$18,252,159**

## COLLEGE OF VETERINARY MEDICINE (CVM): SUBMITTED EXTRAMURAL PROPOSALS

Investigator/s	College	Department	Proposal Title	Submitted	Total	Agency	Start Date
Gartrell, C.	CVM	Veterinary Medicine	Animal Health and Disease Research (FY25)	10/23/2024	\$13,762	USDA NIFA	10/1/2024
Kreisler, R. & Tremonti, G.	CVM	Outcomes Assessment	Administration of a Daily Probiotic in Dogs with Congestive Heart Failure	6/24/2025	\$30,000	AKC Canine Health Foundation	1/1/2026
Lee, J. K.	CVM	Pathology and Population Medicine	Biomaterial Dressings for Pressure Ulcers in Spinal Cord Injury	7/8/2024	\$11,248	NIH R21 (subaward from Arizona State University)	4/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Bioengineered Devices for Tissue Repair and Combating Surgical Site Infections in Diabetic Hosts	7/24/2024	\$17,374	NIH R21 (subaward from Arizona State University)	4/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Delivery of Unmethylated DNA for Tissue Repair	9/7/2024	\$17,374	NIH R21 (subaward from Arizona State University)	4/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Serograft: A Bioinspired Acellular Biomaterial for Combating Tissue Adhesions	11/12/2024	\$17,374	NIH R21 (subaward from Arizona State University)	7/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Temporally-Controlled Histamine Delivery and Staged Anti-inflammatory Action through Binary Electrospun Fibers for Enhanced Wound Healing	5/7/2025	\$17,374	NIH R21 (subaward from Arizona State University)	12/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Investigation of Plasmid DNA Methylation in Tissue Repair	5/7/2025	\$61,472	NIH R01 (subaward from Arizona State University)	12/1/2025
Lee, J. K.	CVM	Pathology and Population Medicine	Investigation of Histaminergic Signaling in Tissue Repair	5/7/2025	\$61,472	NIH R01 (subaward from Arizona State University)	12/1/2025

**Total of CVM Submitted Extramural Proposals: \$247,450**

**MWU SUBMITTED 108 EXTRAMURAL PROPOSALS FROM ALL COLLEGES THROUGH Q4 OF FISCAL YEAR 2025 TOTALING \$46,750,609**

**MULTIDISCIPLINARY: ALL EXTRAMURALLY-FUNDED  
ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD**

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Mitchell, J., Fitzgerald, N., Chen, G. & Wooden, E.	CDMA, AZCOM	Multiple	An Inch-loss Study Using the NovoPod Photomodulation Bed	\$150,000 (Value of)	Thor Photomedicine	6/1/2018	Open
Struthers, J. & Olson, C.	CVM, CGS	Multiple	2025 Boehringer Ingelheim Veterinary Scholars Program	\$32,700 (includes a \$9,600 match from MWU)	Boehringer Ingelheim	1/1/2025	12/31/2025

**Total of Multidisciplinary Active Extramurally-funded Research Awards: \$182,700**

**ARIZONA COLLEGE OF OPTOMETRY (AZCOPT): ALL ACTIVE EXTRAMURALLY-FUNDED  
RESEARCH AWARDS DURING THE REPORTING PERIOD**

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Feis, A.	AZCOPT	Optometry	A Randomized Trial to Evaluate Sequential vs Simultaneous Spectacles plus Patching for Amblyopia in Children 3 to <13 Years Old (ATS22)	\$17,400	National Eye Institute Cooperative Agreement with Jaeb Center for Health Research, Inc.	2/26/2021	12/10/2024
Vasudevan, B.	AZCOPT	Optometry	A Multi-center, Double-masked, Randomized, Placebo-controlled, Phase 3 Study of the Safety and Efficacy of Atropine 0.1% and 0.01% Ophthalmic Solutions Administered with a Microdose Dispenser for the Reduction of Pediatric Myopia Progression (The CHAPERONE Study)	\$313,000	Eyenovia	9/1/2019	12/13/2024
Yevseyenkov, V.	AZCOPT	Optometry	CLAiR Pivotal Trial (CPS-En01)	\$242,012	TOKU, Inc	2/10/2025	2/11/2026
Yevseyenkov, V.	AZCOPT	Optometry	Summative Usability Study: A Simulated Use, Summative Usability Study for the CLAIR Device	\$3,000	TOKU, Inc	4/10/2025	4/11/2026

**Total of AZCOPT Active Extramurally-funded Research Awards: \$575,412**



## CCO: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Nadarajah, V.	CCO	Optometry	A Comparison of Soft Multifocal Contact Lenses used for Myopia Management and Their Effect on Ocular Surface Health	\$11,000	Dr. Newton K. Wesley Foundation	2/1/2025	4/30/2027
Nadarajah, V.	CCO	Optometry	MiSight 1 Day Post-Approval Study for Effectiveness and Visual Symptoms	\$575,000	CooperVision	2/5/2025	2/5/2030
Prestwich, C.	CCO	Optometry	A Randomized Trial to Evaluate Sequential vs Simultaneous Spectacles plus Patching for Amblyopia in Children 3 to <13 Years Old (ATS22)	\$23,350	National Eye Institute Cooperative Agreement with JAEB Center for Health Research, Inc.	4/13/2021	7/28/2025
Rice, S.	CCO	Optometry	A Multi-center, Double-masked, Randomized, Placebo-controlled, Phase 3 Study of the Safety and Efficacy of Atropine 0.1% and 0.01% Ophthalmic Solutions Administered with a Microdose Dispenser for the Reduction of Pediatric Myopia Progression (The CHAPERONE Study)	\$313,000	Eyenovia	2/1/2020	2/12/2025

**Total of CCO Active Extramurally-funded Research Awards: \$922,350**

## CDMA: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Beals, D.	CDMA	Dental Institute	Safety of Tranexamic Acid Oral Solution in Patients on Anticoagulants	\$68,929	Hyloris Developments	5/1/2025	Open
Mitchell, J., Haering H., Carroll, A., Beals, D., & Carpenter, R.	CDMA	Dental Medicine, Dental Institute	Bicon SHORT® Implants: A Preclinical and Clinical Research Study	\$949,363 (Value of)	Bicon Dental Implants	5/6/2016	Open
Mitchell, J.	CDMA	Dental Institute	Comparison Wear Study of Plaque-Buster Toothbrush with Flossing Bristles	\$1,125 (Value of)	TiFinity, LLC	7/6/2021	8/31/2024
Mitchell, J.	CDMA	Dental Medicine	Uniquely High Conversion and Mechanically Robust Composite Materials for Functionally Elevated Performance	\$70,300	NIH R21 Subaward from the University of Colorado	9/5/2023	9/4/2025
Mitchell, J. & Parsa, K.	CDMA	Dental Medicine	A Materials Comparison of Three Commercially Available Alveolar Ridge Preservation Products	\$3,078	Impladent, LTD	8/7/2024	8/7/2025
Mitchell, J. & Agostini-Walesch, G.	CDMA	Dental Medicine	Oral Inflammation and Functional Gastrointestinal Disorders: A Practice-Based Research Approach	\$3,404,111	NIH U01 with a subaward to University of Chicago (\$989,986)	9/13/2023	6/30/2028

**Total of CDMA Active Extramurally-funded Research Awards: \$4,496,906**

## CDMI: ALL ACTIVE EXTRAMURALLY FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Rocha de Oliveria Carrilho, M.	CDMI	Dental Medicine	Blending Dentin to Dentin: Biometric Hydrogels for Dentin Tissue Engineering	\$421,800	NIH R15	9/7/2023	8/31/2026
Sangalli, L.	CDMI	Dental Medicine	Exploring Oral Health Education Program in Temporomandibular Disorders Among Dental Schools	\$15,000	ADEA Gies Foundation	9/1/2024	8/31/2025
Sangalli, L.	CDMI	Dental Medicine	Testing the Effectiveness of a Virtual Patient-Based Learning Intervention for Orofacial Pain Education in a Predoctoral Dental Program	\$3,000	American Academy of Orofacial Pain	5/1/2025	4/30/2026

**Total of CDMI Active Extramurally-funded Research Awards: \$439,800**

## CGS: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Al-Nakkash, L.	CGS	Physiology	Assessment of Metabolomic Pathways Involved in the Brain-intestinal Axis in Western Diet Induced Alzheimer's Pathology	\$23,240 (includes \$8,938 MWU match)	Arizona Alzheimer's Consortium	7/1/2024	6/30/2025
Baab, K.	CGS	Anatomy	Testing Adaptive Hypotheses of Plio-Pleistocene Hominin Craniofacial Evolution	\$330,021	National Science Foundation	2/15/2021	1/31/2026
Bussey, K.	CGS	Precision Medicine	Training in Genomics Research (TiGeR)	\$11,000	NIH R25 subaward from Arizona State University	8/1/2023	3/21/2025
Haley, N.	CGS	Microbiology & Immunology	Understanding the Impact of Selective Breeding on Chronic Wasting Disease Management in White-tailed Deer	\$191,148	USDA APHIS	5/1/2025	4/30/2026
Hughes, T.	CGS	Master of Public Health	Mild Cognitive Impairment: A Prospective Community Study	\$108,345	NIH R01 subaward from University of Pittsburgh	8/28/2023	2/28/2026
Hull, E.	CGS	Biomedical Sciences	The Role of Progranulin in the Inflammatory Response in Alzheimer Disease	\$24,930 (includes \$9,589 MWU match)	Arizona Alzheimer's Consortium	7/1/2024	6/30/2025
Jentarra, G. & Jones, T.B.	CGS	Precision Medicine, Anatomy	Exploring the Association Between the Bacterial Content of Blood and Brain Tissue, and Its Influence on AD Pathology	\$65,000 (includes \$30,000 salary and \$13,461 MWU match)	Arizona Alzheimer's Consortium	7/1/2024	6/30/2025
Kim, C.	CGS	Biochemistry & Molecular Genetics	Molecular Basis of the Selective Assembly of Functionally Distinct PRC1s	\$450,000	NIH R15	9/22/2022	8/31/2025
Kim, J.E., & Leslie, E.	CGS	Anatomy	Mapping Variation in Skeletal Aging with Quantitative Ultrasound Cortical Bone Speed of Sound and Its Potential as a Novel Age-at-Death Estimator	\$20,000	Wenner-Gren Foundation for Anthropological Research	1/1/2023	12/31/2024
Martinez-Guryn, K.	CGS	Biomedical Sciences	The Role of Gut Mycobiota in Regulating Host Lipid Absorption and Obesity	\$471,111	NIH R21 Diversity with subawards to Univ of Wisc (\$137,996) and Univ of Tenn Health Sci Center (\$48,086)	5/1/2022	8/30/2025

## CGS: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS (Continued)

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Martinez-Guryn, K.	CGS	Biomedical Sciences	Probing Short and Long Term Consequences of Small and Large Bowel Microbiota Transplants on Host Physiology: Implications for the Development of Future Live Biotherapeutics	\$774,044	NIH R01 MPI subaward from the University of Chicago	2/1/2024	12/31/2027
Molehin, A.	CGS	Microbiology & Immunology	Antigen and Adjuvant Selection for a Vaccine Against Urogenital Schistosomiasis, HematoShield	\$168,600	NIH R41 subaward from PAI Life Sciences, Inc	1/3/2024	12/31/2024
O'Neill, M.	CGS	Anatomy	Collaborative Research: The Effects of Musculoskeletal Design on Bipedal Walking and Running Performance in Humans, Chimpanzees and Early Hominins	\$259,885	National Science Foundation	3/1/2021	2/28/2026
Prakapenka, A.	CGS	Biomedical Sciences	Alzheimer's Disease Pathogenesis in Mothers: A Role for Age and Menopause	\$249,946	Alzheimer's Association	9/1/2023	8/31/2026
Revill, A.	CGS	Physiology	Physiological and Anatomical Hallmarks Associated With Intermittent Hypoxia and Aging – Insights Into Respiratory Dysfunctions Associated With Alzheimer's Disease	\$120,000	Arizona Alzheimer's Consortium	7/1/2024	6/30/2026
Revill, A.	CGS	Physiology	Effects of Chronic Intermittent Hypoxia on Cholinergic Modulation at Hypoglossal Motoneurons	\$421,800	NIH R15	9/1/2024	8/31/2027
Riede, T.	CGS	Physiology	The Role of Vocal Ligament in Fundamental Frequency and Adduction Control	\$181,020	NIH R01 subcontract from the University of Utah	1/1/2020	12/31/2025
Riede, T.	CGS	Physiology	The Influence of Vocal Loading Upon the Healing of Experimental Vocal Fold Injury	\$404,500	NIH R21	8/1/2022	7/31/2026
Shim, M., Broderick, T., & Al-Nakkash, L.	CGS	Biochemistry & Molecular Genetics, Physiology	Metabolic Intervention of Alzheimer's Disease: Ketone Bodies as a Potential Strategy to Improve Energy Metabolism in the Aging Brain	\$26,830 (includes \$10,319 MWU match)	Arizona Alzheimer's Consortium	7/1/2024	6/30/2025
Smith, H.	CGS	Anatomy	Unlocking the Senescence-resistant Adaptations of Long-lived Giant Tortoises to Develop a Novel Model Organism for Aging Studies	\$33,000	Impetus Grants	12/1/2023	11/30/2025
Strizzi, L.	CGS	Pathology	Potential for DUSP Inhibition to Counter Therapeutic Resistance in Metastatic Melanoma	\$98,872	Elsa U. Pardee Foundation	6/1/2025	5/30/2026
Townsend, K.E.B.	CGS	Anatomy	Collaborative Research: After the Bridgerian Crash - An Integrated Analysis of Mammalian Paleocommunities and Paleoecologies During the Middle Eocene	\$239,596	National Science Foundation with a subcontract (\$20,000) to the Rochester Museum and Science Center	5/15/2020	12/31/2025
Veilleux, C.	CGS	Anatomy	Grasping our Evolutionary Origins: Unraveling the Anatomical and Molecular Adaptations of Primate Touch	\$625,000	NSF with subcontracts to Univ of Calgary (\$146,868) and Oregon Health and Sci Univ (\$30,196)	9/1/2022	8/31/2027
Velez-Cruz, R.	CGS	Biochemistry & Molecular Genetics	The Role of SWI/SNF Chromatin Remodelers in Homologous Recombination and Genome Stability	\$449,330	NIH R15	8/10/2022	7/31/2026

**Total of CGS Active Extramurally-funded Research Awards: \$5,747,218**

**CHS-DG: ALL ACTIVE EXTRAMURALLY-FUNDED  
RESEARCH AWARDS DURING THE REPORTING PERIOD**

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Mahaffey, L.	CHS-DG	Occupational Therapy	Tiered Occupational Therapy (TOT): Preparing Occupational Therapist to Service on School Mental Health Teams	\$1,148,134	U.S. Department of Education	10/1/2023	9/30/2028

**Total of CHS-DG Active Extramurally-funded Research Awards: \$1,148,134**

**CHS-GD: ALL ACTIVE EXTRAMURALLY-FUNDED  
RESEARCH AWARDS DURING THE REPORTING PERIOD**

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Black, D.	CHS-GD	Physician Assistant	Oral Health Interdisciplinary Lunch and Learn	\$988	nccPA Health Foundation	1/9/2023	9/13/2024
Bouton, M.	CHS-GD	Physician Assistant	AAPA-PAEA Research Fellowship	\$22,248	PA Education Association	11/1/2023	10/31/2024
Morrow, M.	CHS-G	Nurse Anesthesia	An Educational Program to Increase Point-of-care Ultrasound Use in Nurse Anesthesiologists: A Pilot Program	\$6,390	American Association of Nurse Anesthesiology	12/15/2024	12/31/2025
Eikenberry, M.	CHS-GD	Physical Therapy	Patient-adaptive Robotic Balance Training for Lower-extremity Stroke Rehabilitation	\$10,128	Arizona Biomedical Research Center sub-award from Arizona State University	7/1/2021	6/30/2026
Eikenberry, M.	CHS-GD	Physical Therapy	CAREER: Transparent Robot-aided Rehabilitation (TRAIN)	\$10,221	National Science Foundation subcontract from Arizona State University	1/1/2021	2/28/2026
Fissel, S.	CHS-GD	Speech-Language Pathology	Translational Adapted Groups: Community Builds Capacity for School SLPs	\$1,274,578	U.S. Department of Education	10/1/2023	9/30/2028

**Total of CHS-GD Active Extramurally-funded Proposals: \$1,324,553**

**COP: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD**

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Briyal, S.	CPDG	Pharmaceutical Sciences	Mentor and Train PCCM and NPM Fellows for Scholarly Activities	\$70,000	Advocate Health and Hospitals Corporation	1/1/2023	12/31/2025
Huang, V.	CPG	Pharmacy Practice	Utilizing Weighted-incidence Syndromic Antibigram to Evaluate Institution-specific Antibiotic Therapies and Antimicrobial Resistance Trends in Community-acquired Infections Across a Community-teaching Health System	\$45,736	Merck	12/1/2023	11/30/2025
Huang, V.	CPG	Pharmacy Practice	A Multicenter Evaluation of Vancomycin-associated Nephrotoxicity in Hospitalized Patients with Acute Bacterial Skin and Skin Structure Infections	\$4,500	Motif BioSciences, Inc	6/1/2018	Open
Huang, V. & Harris, S.	CPG	Pharmacy Practice	Evaluation of Various Dosing Strategies for Cefazolin and Ertapenem against Clinical Methicillin-susceptible Staphylococcus aureus (MSSA) Strains in an In-vitro Pharmacokinetic Model	\$28,900	American College of Clinical Pharmacy Research Institute	12/1/2024	11/30/2025



## COP: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS (Continued)

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Huang, V. & Volker, S.	CPG	Pharmacy Practice	Evaluation of Prevalence of Minocycline Heteroresistance in Clinical <i>Acinetobacter baumannii</i> Isolates	\$27,930	American College of Clinical Pharmacy Research Institute	9/1/2023	8/31/2024
Pais, G.	CPDG	Pharmaceutical Sciences	Cefepime Physiologically-based Pharmacokinetic Models for Cross-Species Extrapolation	\$231,480	NIH K12 Training Grant subaward from Cincinnati Children's Hospital Medical Center	12/1/2023	11/30/2025
Rhodes, N.J.	CPDG	Pharmacy Practice	Systems-based Pharmacologic Modelling to Elucidate Beta-lactam Clinical Pharmacodynamics and Define Optimal Dosing Regimens in Severe Pneumonia	\$3,403,378	NIH R01 with subawards to Northwestern University (\$1,121,735) and Children's Hospital of LA (\$325,820)	7/11/2022	6/30/2027
Rhodes, N.J.	CPDG	Pharmacy Practice	Development and Validation of CRRT-specific Beta-lactam Population Pharmacokinetic Models to Guide Treatment for Patients with Hospital-acquired Pneumonia	\$399,991	FDA with a subaward to Northwestern University (\$169,984)	9/30/2022	9/29/2025
Rhodes, N.J.	CPDG	Pharmacy Practice	Consensus Recommendations for the Use of Individualized Drug Dosing in Patients Receiving Beta-lactam Antibiotics	\$2,640	American College of Clinical Pharmacy	2/3/2023	12/31/2025
Rhodes, N.J.	CPDG	Pharmacy Practice	Development and Evaluation of CRRT-specific Precision Dosing Models to Optimize Beta-lactam Treatment for Patients with Hospital-acquired Pneumonia	\$417,308	NIH R21 with subaward to Northwestern University (\$169,137)	6/23/2023	5/31/2026
Scheetz, M.	CPDG	Pharmacy Practice	Assessment of MODS and Personalized Exposure of Antibiotics (AMPLE)	\$897,451	NIH R01 MPI subaward from Children's Hospital of Philadelphia	9/22/2021	8/31/2026
Scheetz, M.	CPDG	Pharmacy Practice	Patient-oriented Research on <i>Pseudomonas aeruginosa</i>	\$39,760	NIH K24 subaward from Northwestern University	2/22/2020	1/31/2025
Scheetz, M.	CPDG	Pharmacy Practice	A Randomized Clinical Trial of Continuous vs. Intermittent Infusion Vancomycin: Effects on Measured GFR and Kidney Injury Biomarkers	\$113,587	NIH R21 Clinical Trial subaward from the University of Kentucky	1/20/2023	12/31/2025
Scheetz, M.	CPDG	Pharmacy Practice	Antibacterial Resistance Leadership Group (ARLG)	\$27,434	NIH UM1 subaward from Duke	12/1/2023	11/30/2024
Scheetz, M.	CPDG	Pharmacy Practice	Antibacterial Resistance Leadership Group (ARLG)	\$28,532	NIH UM1 subaward from Duke	12/1/2024	11/30/2025
Scheetz, M.	CPDG	Pharmacy Practice	The Pediatric sEpiS induced MODS: Relationship of Immune-phenotypes and antibiotic Exposures (PRESCRIBE) Study	\$76,165	NIH R01 subaward from Children's Hospital of Philadelphia	6/19/2023	5/31/2028
Scheetz, M.	CPDG	Pharmacy Practice	Elucidating the Temporal Mechanism of Vancomycin Kidney Toxicity as a Means to Prevent Injury	\$356,876	NIH R21 with foreign subawards to University of West Attica (\$72,576) and Università Degli Studi Di Cagliari (\$93,312)	6/26/2023	5/31/2026
Wang, S.	CPDG	Pharmacy Practice	Increasing Public Awareness of Antimicrobial Resistance Through Art	\$2,500	Society of Infectious Diseases Pharmacists	5/1/2025	4/30/2026
Weissig, V.	CPG	Pharmaceutical Sciences	Validation and Development of Nanoliposomes for Neuroprotection in Stroke	\$49,602	Arizona Biomedical Research Centre Subaward from the Arizona Veterans Research and Education Foundation	6/1/2023	12/31/2025

**Total of COP Active Extramurally-funded Proposals: \$6,223,770**

## CVM: ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
Chako, C. & Gartrell, C.	CVM	Veterinary Medicine	Animal Health and Disease Research (FY23)	\$11,899	USDA	10/1/2022	9/30/2025
Chako, C., Ziegler, J., Kretsch-York, C., & Oman, R.	CVM	Farm Animal Medicine	Enhanced Education in Rural Food Animal Practice Dedicated Training for Veterinary Students and Exposure for Native American Youth	\$244,491	USDA	9/1/2023	8/31/2026
Gartrell, C. & Okwumabua, O.	CVM	Veterinary Medicine	Animal Health and Disease Research (FY24)	\$15,228	USDA	10/1/2023	9/30/2025
Gartrell, C.	CVM	Veterinary Medicine	Animal Health and Disease Research (FY25)	\$13,762	USDA	10/1/2024	9/30/2026
Goe, A. & Bautista, J.	CVM	Pathology and Population Medicine	Pharmacokinetics and Safety Evaluation of a Single Robenacoxib Dose in Great Horned Owl ( <i>Bubo virginianus</i> )	\$4,600	National Wildlife Rehabilitators Association	1/1/2024	12/31/2024
Kreisler, R.	CVM	Shelter Medicine	The 1000 Canine (1K-9) SARS-CoV-2 Surveillance Study: Exploration of SARS-CoV-2 Exposures and Transmission Pathways Among Different Domestic Canine Populations	\$121,000	USDA subaward from the Translational Genomics Research Institute (TGen)	7/3/2024	5/31/2025
Lopez, B.	CVM	Veterinary Medicine	Host-Pathogen Interaction During Cryptosporidiosis - A Model for Disease Pathogenesis and Discovery of Effective Therapeutics	\$454,012	USDA National Institute of Food and Agriculture with a subcontract (\$27,871) to the University of Georgia	7/1/2021	6/30/2025
Struthers, J.	CVM	Veterinary Medicine	Optimizing a Patient-specific Larynx Implant for Functional Restoration after Cancer Surgery	\$58,112	NIH R01 subcontract from the Mayo Clinic	9/1/2021	8/31/2026
Thomas, K.	CVM	Companion Animal	PAAM - PacCur-Vet Activity Against Melanoma	\$191,550	TaxolCur	2/6/2025	7/7/2027
Waitt, L.	CVM	Veterinary Medicine	League of VetaHumanz MWU Chapter: This is How We 'Role'	\$8,000	NIH R25 subcontract from Purdue University	1/1/2021	7/31/2025

**Total of CVM Active Extramurally-funded Proposals: \$1,122,654**

## CLINICAL RESEARCH SERVICES (CRS): ALL ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS DURING THE REPORTING PERIOD

Investigator/s	College	Department	Proposal Title	Total	Agency	Start Date	End Date
VanDenBerg, C.	n/a	Abrazo Arizona Heart Hospital	Medical Device Study in Patients with Cardiovascular Disease	\$177,116	Medical Device Sponsor with a subcontract (\$23,355) to Abrazo Hospitals and Consultant Costs of \$21,000	11/1/2018	Open

**Total of CRS Active Extramurally-funded Research Awards: \$177,116**

**Proposals included are defined as active grants based on end dates reported to the ORSP on the Principal Investigator's Proposal Approval Form plus any granted no-cost extension or contract addendum.**

**TOTAL MWU ACTIVE EXTRAMURALLY-FUNDED RESEARCH AWARDS: \$22,360,613**

**Bouton, M.** (CHS-GD), **Wild, J.** (CHS-GD), **Bolch, C.** (ORSP), **Mitzel, K.** (AZCOM), & **Zhou, T.** (ORSP). (2024). Physician associate/assistant program medical directors are important advocates for the Physician associate/assistant profession: results from a national pilot study. *The journal of physician assistant education: the official journal of the Physician Assistant Education Association*, 35(4), 370–375.

**Carpinelli, S.** (AZCOM), **Ahlert, J.** (AZCOM), **Rubin, M.** (AZCOM), **Aratani, A.** (AZCOM), **Smith, E.** (CVM), **Floyd, D.**, **Potter, R. M.** (CGS), & **Al-Nakkash, L.** (CGS). (2025). Deleterious impacts of Western diet on jejunum function and health are reversible. *American journal of physiology. Gastrointestinal and liver physiology*, 328(2), G83–G93.

**Chang, J.** (COP), **Pais, G. M.** (COP), **Barreto, E. F.**, **Young, B.** (CCOM), **Scott, H.** (CCOM), **Schwartz, Z.** (CCOM), **Cartwright, C.** (CCOM), **Jubrail, R.** (COP), **Srivastava, A.**, & **Scheetz, M. H.** (COP). (2024). Past, present, and future biomarkers of kidney function and injury: the relationship with antibiotics. *International journal of antimicrobial agents*, 64(5), 107332.

**Chittick, L.** (CVM), **Jaffey, J. A.** (CVM), **Veltri, C. A.** (COP), **Bolch, C.** (ORSP), **Carswell, I.** (CVM), **Perkins, H.** (CVM), & **da Cunha, A.** (CVM). (2025). Increasing plasma methadone concentrations are associated with decreased leukocyte oxidative burst without affecting cytokine production or phagocytosis in healthy dogs. *American journal of veterinary research*, 1–7. Advance online publication.

**Costa, R. S.** (CVM), **Winslow, C. M.** (CVM), **Veltri, C. A.** (COP), **Lozoya, M.** (COP), & **Norris, J. W.** (CGS). (2024). Pharmacokinetic profile and physiological effects of oral and compounded intravenous gabapentin in goats. *Veterinary anaesthesia and analgesia*, 51(5), 539–547.

**Covarrubias, B. V.** (CGS), **Kamminga, J. M.** (AZCOM), **Muchlinski, M. N.**, **Munds, R. A.**, **Villero Núñez, V.**, **Bauman Surratt, S.**, **Cayo Biobank Research Unit**, **Martinez, M. I.**, **Montague, M. J.**, **Higham, J. P.**, **Melin, A. D.**, & **Veilleux, C. C.** (CGS). (2024). Investigating mechanoreceptor variability and morphometric proxies in Rhesus Macaques: implications for primate precision touch studies. *Anatomical record (Hoboken, N.J.: 2007)*, 10.1002/ar.25587. Advance online publication.

**Fricton, V.** (CDMI), **Larkin, N.** (CDMI), **Sangalli, L.** (CDMI), **Prodoehl, J.** (CHS), **Rayens, W. S.**, & **Fricton, J.** (2025). Confidence in diagnosing and treating temporomandibular disorders among dental students and faculty following implementation of the revised standards 2-24k: a cross-sectional study. *Cranio: the journal of craniomandibular practice*, 1–14. Advance online publication.

**Grandberry, A.** (CGS), **Rajesh, N.** (CCOM), **Murphy, R.** (CGS), & **Sundaresan, S.** (CGS). (2025). Diet-induced obesity blunts sensitivity of intestinal enteric neurons: FIRST evidence of modulation of activity of enteric neurons by luminal nutrients. *FASEB journal: official publication of the Federation of American Societies for Experimental Biology*, 39(9), e70584.

**Green, M.** (COP), **Veltri, C. A.** (COP), **Prozialeck, W. C.** (CGS), & **Grundmann, O.** (COP). (2025). The neuropharmacology of kratom, a novel psychoactive natural product. *Progress in neuro-psychopharmacology & biological psychiatry*, 136, 111215.

**Hamoui, M. Z.** (CGS), **Rizvi, S.** (AZCOM), **Arnouk, H.** (CGS), & **Roberts, C. M.** (CGS). (2025). Putative biomarkers for prognosis, epithelial-to-mesenchymal transition, and drug response in cell lines representing oral squamous cell carcinoma progression. *Genes*, 16(2), 209.

- Jaffey, J. A.** (CVM), **Backus, R. C.**, **Kreisler, R.** (CVM), **Graves, T. K.** (CVM), **Al-Nakkash, L.** (CGS), & **Allison, L.** (CVM). (2024). Evaluation of serum vitamin D metabolites, phagocytosis, and biomarkers of inflammation in dogs with naturally occurring diabetes mellitus. *Frontiers in veterinary science*, *11*, 1441993.
- Jones, T. B.** (CGS), **Chu, P.** (CGS), **Wilkey, B.** (AZCOM), **Lynch, L.** (CGS), & **Jentarra, G.** (CGS). (2024). Regional differences in microbial infiltration of brain tissue from Alzheimer's disease patients and control individuals. *Brain sciences*, *14*(7), 677.
- Keefe, P.** (CCOM), & **Puthanveetil, P.** (CGS). (2024). Compare and contrast of the cellular actions of related flavonoids, apigenin and chrysin. *Nutrients*, *16*(23), 4195.
- Larkin, N.** (CDMI), **Fricton, V.** (CDMI), **Sangalli, L.** (CDMI), **Prodoehl, J.** (CHS-DG), & **Fricton, J.** (2024). Prevalence and impact of signs and symptoms of temporomandibular disorders in dental students and faculty. *Journal of dental education*, *88*(12), 1696–1708.
- Le, D. Q.** (AZCOM), **Scarpulla, M.** (AZCOM), **Lam, H.** (AZCOM), **Kern, J.** (AZCOM), **Vroegop, S.** (AZCOM), **Yaeger, J.** (AZCOM), **Finch, C.** (AZCOM), **Martini, W.**, **Bolch, C. A.** (ORSP), & **Al-Nakkash, L.** (CGS). (2025). The assessment of point-of-care ultrasound (POCUS) in residency: the benefits of a four-year longitudinally integrated curriculum. *Journal of osteopathic medicine*, *125*(3), 119–126.
- Lee, A. H.** (CGS), **Moore, J. M.** (AZCOM), **Covarrubias, B. V.** (CGS), & **Lynch, L. M.** (CGS). (2025). Segmentation of cortical bone, trabecular bone, and medullary pores from micro-CT images using 2D and 3D deep learning models. *Anatomical record (Hoboken, N.J.: 2007)*, 10.1002/ar.25633. Advance online publication.
- Lloyd, K.** (CDMI), **Pitstick, L.** (CGS), **Gao, F.** (CDMI), **Cuevas-Nunez, M. C.**, & **Ventrella, R.** (CGS). (2025). The effects of photobiomodulation therapy on *Xenopus laevis* embryonic epithelium. *Photobiomodulation, photomedicine, and laser surgery*, *43*(5), 215–218.
- MacNeil, B. A.** (CHS-GD), **Baran, K.** (CCOM), **Wilson, K.** (CHS-GD), **Boni, L.** (CHS-GD), & **Bolch, C.** (ORSP). (2024). Lifetime prevalence of obsessive-compulsive disorder (OCD) in men with an eating disorder: a meta-analysis. *The journal of men's studies*, *33*(2), 349-371.
- Main, S.** (CGS), **Carrilho, M. R.** (CDMI), **Alessandri-Bonetti, A.**, **Sawicki, C.**, **Rao, J.** (CDMI), **Hall, S.** (CDMI), & **Sangalli, L.** (CDMI). (2025). Salivary markers as potential stress descriptors for pediatric dental patients: a literature review. *Children (Basel, Switzerland)*, *12*(4), 500.
- Meyer, A.** (CGS), **Kim, N.** (CCOM), **Nguyen, M.** (CGS), **Misch, M.** (CCOM), **Marmo, K.** (CCOM), **Dowd, J.** (CGS), **Will, C.** (CCOM), **Janosevic, M.** (CCOM), & **Stephenson, E. J.** (CGS). (2024). Inactivity-mediated molecular adaptations: insights from a preclinical model of physical activity reduction. *Physiological reports*, *12*(23), e70140.
- Prodoehl, J.** (CHS-DG), **Pathak, R.**, **Glavanovits, J.**, **Chang, J.**, **Nault, T.**, **Levine, S.**, & **Daly, E.** (CCOM). (2025). Promoting longus colli muscle activation: force direction in sitting matters. *Musculoskeletal science & practice*, *76*, 103269.
- Roe, M. K.** (AZCOPT), **Matyjaszek, S.** (CVM), **Stein, A.** (ORSP), **Sullins, K.** (CVM), & **Brosnahan, M. M.** (CVM). (2024). Exploring the benefits of stroboscopic technology and guided visualization in teaching suturing techniques to veterinary medicine students. *Journal of veterinary medical education*, *51*(5), 620–629.



**Rolain, H.** (CCOM), **Schwartz, Z.** (CCOM), **Jubrail, R.** (COP), Downes, K. J., Hong, L., FakhriRavari, A., **Rhodes, N. J.** (COP), & **Scheetz, M. H.** (COP). (2024). Meta-analysis on safety of standard vs. prolonged infusion of beta-lactams. *International journal of antimicrobial agents*, 64(4), 107309.

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**Shankavaram, V.** (CCOM), **Shah, D.** (CCOM), **Alashqar, A.** (CCOM), **Sweeney, J.** (CCOM), **Arnouk, H.** (CGS). (2024). Cornulin as a key diagnostic and prognostic biomarker in cancers of the squamous epithelium. *Genes*, 2024(15), 1122.

**Smith, H. F.** (CGS), **Rocco, F. A.** (CVM), **Felix, M. A.** (CVM), **Valdez, D.** (CGS), & **Lynch, L. M.** (CGS). (2024). African wild dog (*Lycaon pictus*) masticatory apparatus and oral cavity morphology. *Anatomical record (Hoboken, N.J.: 2007)*, 10.1002/ar.25547. Advance online publication.

**Sondgeroth, K.** (CGS), **Boyman, E.** (CCOM), **Pathare, R.** (CCOM), & **Porta, M.** (CGS). (2025). Voltage-gated calcium channels and the parity-dependent differential uterine response to oxytocin in rats. *Reproductive sciences (Thousand Oaks, Calif.)*, 32(2), 300–315.

**Tawil, J. R.** (CVM), **Vitello, E. C.** (CVM), **Agostini-Walesch, G. M.** (CDMA), **Mitchell, J. C.** (CDMA), & **Kreisler, R.E.** (CVM). (2025). Needle sharpness is minimally affected by vaccine vial puncture. *Journal of the American veterinary medical association*, 263(6), 725-731.

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**Weiss, P.** (CCOM), **Kasimos, J. N.** (CGS). (2025). Benign vascular lesions. In: Norman, R., Dharmarajan, T.S. (eds) geriatric dermatology. Springer, Cham.

**Zach, R. V.**, **Barletta, J. F.** (COP), & **Zach, V.** (AZCOM). (2024). Osmotic Demyelination Syndrome in the setting of Normonatremia: a case report and review of the literature. *Case reports in neurological medicine*, 2024, 6626539.

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**Chesterman, A. K. M., Denney, M., Afaq, S., Moreno, M. S., Schwartz, T. M., & Harrison, A.** (2025). Probability of stroke in Blacks and Non-Hispanic Whites treated with ACE-I, ARBs, and other antihypertensives. *Journal of racial and ethnic health disparities*, 10.1007/s40615-025-02486-7. Advance online publication.

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## PEER-REVIEWED PUBLICATIONS - AZCPM

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Chen, N., Litts, K. M., Nikezic, D., Langlo, C. S., Higgins, B. P., Lam, B. L., Fishman, G. A., **Collison, F. T.**, Pennesi, M. E., Kay, C. N., Tarima, S., & Carroll, J. (2025). Longitudinal imaging of the parafoveal cone mosaic in congenital achromatopsia. *Ophthalmology science*, 5(4), 100765.

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## PEER-REVIEWED PUBLICATIONS - COP (Continued)

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**Valadez, A., Zurawska, M., Harlan, E., Scheetz, M. H.**, Neely, M. N., Yarnold, P. R., Kang, M., Korth, E., Martinez, F., Giblin, B., Donnelly, H. K., Dedicataria, K., Medernach, R., Nozick, S., Hauser, A. R., Ozer, E. A., Diaz, E., Misharin, A. V., Wunderink, R. G., & **Rhodes, N. J.** (2025). Individual target pharmacokinetic/pharmacodynamic attainment rates among cefepime-treated patients admitted to the ICU with hospital-acquired pneumonia with and without ECMO. *Antimicrobial agents and chemotherapy*, 69(6), e0010225.

**Weissig, V.** (2024). Free radicals and antioxidants: a new Paradigm has emerged. *Medical research archives*, 12(7), 2375-1924. Advance online publication.

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## PEER-REVIEWED PUBLICATIONS - CVM

**Berlin, D., Jaffey, J. A., Bolch, C., Zhou, T., Rayhel, L. H.**, & Hanzlicek, A. S. (2024). Serial evaluation of liver enzyme activities in dogs with pulmonary coccidioidomycosis administered *per os* fluconazole. *Frontiers in veterinary science*, 11:1402572.

Bullock, G., **Jaffey, J. A.**, Cohn, L. A., Sox, E., Hostnik, E. T., Hutcheson, K. D., Matero, E., Hoffmann, K. S., Johnson, G. S., & Katz, M. L. (2024). Novel COL5A1 variants and associated disease phenotypes in dogs with classical Ehlers-Danlos syndrome. *Journal of veterinary internal medicine*, 38(5), 2431–2443.

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**Gordon, D., Jaffey, J. A.**, Shubitz, L. F., Johnson, M. D. L., **Bolch, C.**, Menghani, S. V., & Benecke, B. (2025). Ex vivo coccidioidal antigen chitinase-1 stimulation increases production of interleukin-1 $\beta$  in healthy cats. *American journal of veterinary research*, 1–7. Advance online publication.

## PEER-REVIEWED PUBLICATIONS - CVM (Continued)

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- Herendeen, H. A.**, Turner, J. W. C., & **Kreisler, R. E.** (2024). Veterinarian use of and sentiment regarding standard of care for feline ovarian pedicle tie. *Journal of veterinary medical education*, 51(5), 587–592.
- Jaffey, J. A.**, Bullock, G., & Katz, M. L. (2025). Dermal pathology in a Catahoula Leopard dog with Dermasparaxis Ehlers Danlos syndrome caused by a homozygous ADAMTS2 missense variant. *Topics in companion animal medicine*, 66, 100976.
- Jaffey, J. A.**, Cañete-Gibas, C. F., Wiederhold, N. P., Sanders, C. J., **Struthers, J. D.**, **Black, A.**, **Wu, B.**, **Thomas, K. S.**, **Bennett, P.**, & **Watt, J.** (2025). Novel Curvularia species causing disseminated phaeohyphomycosis in a dog. *Topics in companion animal medicine*, 64, 100939.
- Jaffey, J. A.**, da Cunha, A., **Kushiro-Banker, T.**, **Costa, R. S.**, **Acierno, M.**, **Irwin, C.**, **Chittick, L.**, **Montalvo, N.**, **Felix, M.**, **Valentine, M.**, **Dhaliwal, G.**, & Brudvig, J. M. (2025). Inhaled albuterol rapidly decreases whole blood potassium and increases plasma insulin concentrations, with peak effects 30 minutes after administration in cats. *Journal of the American veterinary medical association*, 1–8. Advance online publication.
- Kreisler, R. E.**, Spindel, M. E., & Rishniw, M. (2024). 2024 analysis of compensation, job duties, and benefits among US shelter medicine veterinarians. *Journal of the American veterinary medical association*, 1–9. Advance online publication.
- Okwumabua, O.**, **Bradley-Siemens, N.**, **Cruz, C.**, **Chittick, L.**, & Thompson, M. (2025). Detection of SARS-CoV-2 and a possible variant in shelter cats. *PloS one*, 20(1), e0317104.
- Snoeck, A., **Jaffey, J. A.**, Billen, F., Rodrigues, N. F., Peeters, S., Le Goff, C., Cavalier, E., Peeters, D., & Clercx, C. (2025). Serum 25-hydroxyvitamin D and 24,25-dihydroxyvitamin D are decreased in dogs with sinonasal aspergillosis. *Veterinary journal (London, England: 1997)*, 310, 106318.
- Vitello, E.**, **Erhart, R.**, **Session, M.**, **Xu, A.**, Dalrymple, A. M., & **Kreisler, R. E.** (2024). Comparison of ear tipping techniques to identify sterilized community cats: a randomized controlled trial. *Journal of shelter medicine and community animal health*, 3(1).

## ISSUED PATENTS

**Anil Gulati (COP)** Alterations in Endothelin Receptors Following Hemorrhage and Resuscitation by Centhaquin. Indian Patent No.: 552500. Issue Date: October 17, 2024.

## INTRAMURAL FUNDING

### AZCOPT

Investigator/s	College	Department	Proposal Title
Baker, J., Kozlowski, M.	AZCOPT	Optometry	Promotion of Corneal Epithelial Healing
Esposito, C.	AZCOPT	Optometry	Deposition of Tau and Amyloid-beta in the Tear Film of Acquired & Traumatic Brain Injury Patients
Gantes-Nunez, J., Vasudevan, B.	AZCOPT	Optometry	External Programmer Services to Enhance Virtual Reality Testing Software
Helmuth, K., Vasudevan, B.	AZCOPT	Optometry	Assessment of the Magnitude of Inflammatory Markers in Dry Eye Patients
Kozlowski, M.	AZCOPT	Optometry	Promotion of Corneal Epithelial Healing (round 1 applications)
Kozlowski, M.	AZCOPT	Optometry	Development of Agents for Promotion of Corneal Health
Roe, M.	AZCOPT	Optometry	Exploration of Athletic Visual Skills and Pickleball Performance
Vasudevan, B.	AZCOPT	Optometry	The Effect of Non-invasive Brain Stimulation in Adults with Symptomatic Convergence Insufficiency
Yeh, F.	AZCOPT	Optometry	The Effect of Corneal Crosslinking on Keratoconic Eyes

Total AZCOPT Intramural Funding: \$37,200

### CCO

Investigator/s	College	Department	Proposal Title
Gialousakis, J.	CCO	Optometry	The Daily Change in Refractive Error with Orthokeratology Lenses
Gulati, N.	CCO	Optometry	Exploring Telehealth and its Impact on Contact Lens Examinations
Lau, J.	CCO	Optometry	The Effects of Electric vs. Microwavable Warm Compresses on Dry Eye Patients
Rhea, D., Nadarajah, V., Williams, J.	CCO	Optometry	A Comparison of Soft Multifocal Contact Lenses used for Myopia Management and Their Effect on Ocular Surface Health
Rice, S., Prestwich C., Kehbein K., Chakraborty A.	CCO	Optometry	The Relationship Between Visual Perception, Visuomotor Skills, IQ, and Standardized Test Performance
Upadhyaya, S.	CCO	Optometry	Effects of Neuromodulation on Fixation

Total CCO Intramural Funding: \$18,032

### CGS

Investigator/s	College	Department	Proposal Title
Al-Nakkash, L.	CGS	Physiology	Influence of Intermittent Fasting on Intestine
Bjork, B.	CGS	Biochemistry & Molecular Genetics	Prdm16 and Prdm3 in Developing Mouse Craniofacial Bone, Mandible, and Palate Development
Bussey, K.	CGS	Precision Medicine	The Effects of Chronic Cortisol Exposure on Normal and Cancer Cell Behavior
Call, G.	CGS	Pharmacology	Identification of Background Mutation and Associated Phenotypes on the Park25 Mutant Chromosome
Ciancio, M.	CGS	Biomedical Sciences	Heat Shock Protein 70 Control of Small Intestinal Sugar Transport
Ebeid, M.	CGS	Anatomy	Connective Tissue Growth Factor Function in Mouse Cochlear Spiral Limbus Development and Hearing
Edwards, J.	CGS	Pharmacology	Single and Combined Effects of the Antihistamine Diphenhydramine and Cadmium on the Excitability and Glucose-Stimulated Insulin Secretion of MIN6 Cells, an in Vitro Model of Pancreatic Beta Cells

## INTRAMURAL FUNDING

### CGS (Continued)

Investigator/s	College	Department	Proposal Title
Gadagkar, S.	CGS	Biomedical Sciences	RNA-Seq and Transcriptomics to Aid the Genome Sequencing, Assembly, and Annotation of <i>Impatiens Pallida</i> (Balsaminaceae)
Gonzalez, F.	CGS	Microbiology & Immunology	Comparison of 26S Proteasome Complexes Isolated from Yeast Versus Mold Forms of <i>Candida Albicans</i>
Hall, M.	CGS	Anatomy	Anatomy of the Peripheral Nervous System in Vertebrates
Heesy, C.	CGS	Anatomy	Developing an Atlas of Normal Aging for Macaque Retinal Ganglion Cell Density and Morphology Based on a Natural Population
Hernandez, J.	CGS	Biochemistry & Molecular Genetics	Characterization of Antimicrobial Properties of Natural Products from <i>Fouquieria Splendens</i> Against Gram Negative Bacteria
Hnida, J.	CGS	Microbiology & Immunology	Coccidia of White-tailed Antelope Squirrel, Gray-collared Chipmunk, and Golden-mantled Ground Squirrel Populations in Northern Arizona
Hull, E.	CGS	Biomedical Sciences	miRNA Regulation of GRN Expression in Neuroinflammation
Kaufman, J.	CGS	Anatomy	Fear Contagion in Zebrafish: A Comparison of Alarm Substance and Chemically-Induced Seizure (Phase 2)
Kopf, P.	CGS	Pharmacology	Kratom Alkaloids and Vascular Reactivity
Korch, S.	CGS	Pharmacology	Analysis of Mitochondrial Respiration in HeLa Cancer Cells as a Function of Energy Status
Lawson, K.	CGS	Biochemistry & Molecular Genetics	Cadherin-dependent Modulation of Chemoresistance in Oral Tumor Development
Leyva, K.	CGS	Microbiology & Immunology	Identification of Progranulin RNA Variants in Neuronal Cells
Lynch, L.	CGS	Anatomy	Determining the Effects of Environmental Teratogens in River Systems on the Evolution of CNS Development Genes Across Clades
Mayer, A.	CGS	Pharmacology	Effect of Cyanobacterial LPS on Immune Activation of Human De-identified Brain Cultures and the Human HMC3 Microglia Cell Line
McCulloch, P.	CGS	Physiology	Brainstem Cardiorespiratory Control Mechanisms
Muldoon, K.	CGS	Anatomy	Survey of Caregivers' Knowledge and Experiences with Congenital Cytomegalovirus (cCMV)
Molehin, A.	CGS	Microbiology & Immunology	Molecular Characterization and Functional Analyses of Serine Protease Inhibitors from <i>Schistosoma Haematobium</i>
Norris, J.	CGS	Pharmacology	The Role of CCK Receptor Subtypes in Non-Small Cell Lung Cancer Tumorigenesis - Effects on Proliferation and Immune Surveillance
Olson, C.	CGS	Physiology	Behavioral, Diel and Age-related Patterns of Vitamin A Signaling with Vocal Production
Pierce, M.	CGS	Pharmacology	Identification of Novel Neuroactive Marine Natural Products for Neuroscience Drug Development
Porta, M.	CGS	Physiology	The Memory of Pregnancy in the Uterus: Contractility
Puthanveetil, P.	CGS	Pharmacology	GLP1 Analog Mediated Protection Against Glucocorticoid Excess Induced Metabolic Stress
Rodriguez Sosa, J.	CGS	Anatomy	Determination of Spermatogenesis Established By Transplanted Spermatogonial Stem Cells and Sertoli Cells from Piglets into Mouse Testes
Shim, M.	CGS	Biochemistry & Molecular Genetics	The Role of Interleukin-1 (IL11) in Cancer-Associated Cachexia (CAC)
Sigar, I.	CGS	Microbiology & Immunology	Understanding the Role of Heparan Sulfate in the Co-infection of HSV and Chlamydia Infectivity



## INTRAMURAL FUNDING

### CGS (Continued)

Investigator/s	College	Department	Proposal Title
Stephenson, E.	CGS	Anatomy	Role of SMYD2 Activity in the Regulation of Glucose Homeostasis
Swanson-Mungerson, M.	CGS	Microbiology & Immunology	Exacerbation of Th2-mediated OVA-induced Airway Inflammation by Brasionema sp. Lipopolysaccharide

Total CGS Intramural Funding: \$163,823

### CHS-DG

Investigator/s	College	Department	Proposal Title
Campione, E.	CHS-DG	Physical Therapy	Admission and Noncognitive Psychological Factors Predicting Academic Success in a Private, Professional Physical Therapy Program and Performance on the National Physical Therapy Examination
Chung, M.	CHS-DG	Physician Assistant	Wellbeing of Physician Assistant Students in the Midwestern University Downers Grove and Glendale Physician Assistant Programs: A Longitudinal Study
Dillon, T.	CHS-DG	Physical Therapy	The Reliability of Measuring the Thickness of Plantar Fascia, Patella Tendon, and Bicep Tendon Using Handheld Ultrasound Technology as Measured by Novice Physical Therapy Students Compared to an Experienced User
Keller, S.	CHS-DG	Physical Therapy	The Impact of a Dynamic Water Weight on Balance Responses in Healthy Young Adults
Prodoehl, J.	CHS-DG	Physical Therapy	Deep Neck Flexor Muscle Activation: Does Side Matter?
Sisto, J.	CHS-DG	Physician Assistant	Attitudes and Beliefs about Professionalism Among First-year Physician Assistant Students

Total CHS-DG Intramural Funding: \$19,953

### CHS-GD

Investigator/s	College	Department	Proposal Title
Black, D.	CHS-GD	Physician Assistant	Well-being of Physician Assistant Students in the Midwestern University Downers Grove and Glendale Physician Assistant Programs: A Longitudinal Study
Gandhi, S.	CHS-GD	Behavioral Sciences	Personality Assessment in the BDSM Community: Performane-based Methods Using Rorschach Inkblot Method
Turner, T.	CHS-GD	Occupational Therapy	The Opening Minds through Art Program at Midwestern University: An Interprofessional Pilot Study

Total CHS-GD Intramural Funding: \$14,350

## INTRAMURAL FUNDING

### COP

Investigator/s	College	Department	Proposal Title
El-Ibiary, S.	CPG	Pharmacy Practice	Assessment of Burnout Among Pharmacy Practice Faculty: A 10 Year Update
Huang, V.	CPG	Pharmacy Practice	Beyond Vancomycin: Prevalence of Daptomycin Heteroresistance in Clinical Vancomycin-resistant Enterococci Isolates
Marianski, S.	CPG	Pharmacy Practice	Development and Validation of Three in Vitro Cell Line Models, Compared to Well-established Cellular Models to Study Drug-induced Kidney Injury
Olsen, M.	CPG	Pharmaceutical Sciences	Synthesis and Evaluation of Mechanism-based Inhibitors of Iron Dependent Dioxygenases
Pogge, E.	CPG	Pharmacy Practice	Analyzing the Newest Phases of the "Habits of Preceptor Project"
Shiau, J.	CPG	Pharmacy Practice	Investigation of the Effects of Synthesized Peptides on Vancomycin-induced Nephrotoxicity with a Rat Model
Valadez, A.	CPDG	Pharmacy Practice	Development and Validation of a Multiplex Assay and Meropenem Quantification in Synthetic BAL
Wang, S.	CPG	Pharmacy Practice	Safety of Direct Cefazolin Use in Patients with a Beta-lactam Allergy Label Concerning an Immediate (IgE-mediated) Hypersensitivity Reaction Across a Major Health System
Zurawska, M.	CPDG	Pharmacy Practice	Protein Quantification in BALF from Critically Ill Patients: Implications for Pharmacokinetic Model Development

Total COP Intramural Funding: \$89,304

### CVM

Investigator/s	College	Department	Proposal Title
Follman, C., Jaffey, J.	CVM	Veterinary Medicine	Effect of Gabapentin and Pregabalin on Blood Pressure and Serum Cortisol Concentrations in Healthy Dogs
Li, W.	CVM	Veterinary Medicine	Mmu-miR-199a-5p and miR-325-3p Regulate of Mouse Macrophages Function After C. Muridarum Infection
Schultz, M., Goe, A.	CVM	Veterinary Medicine	Use of Botulinum Toxin Type A for Treatment of Propatagial Tendon Contracture in Avian Species

Total CVM Intramural Funding: \$38,000

### FACULTY SEED GRANT AWARDS

Investigator/s	Campus	Proposal Title
Bodenstine, T.	Downers Grove	Identifying Gap Junction-dependent Functions of Polyploid Giant Cancer Cells in Breast Cancer
Bussey, K.	Glendale	Investigating the Effects of Cortisol on Intratumor Heterogeneity in Triple-Negative Breast Cancer
Ebeid, M., Tiwari, V.	Downers Grove	The Mechanism of Sensorineural Hearing Loss in Congenital Cytomegalovirus Infection
Wellensiek, B., Kronstand, L.	Glendale	Improving the Immunogenicity of Influenza mRNA-based Vaccines by Harnessing Translation Enhancing Elements

Total Faculty Seed Grant Funding: \$40,000

## INTRAMURAL FUNDING

### **IMPROVING HEALTH CARE DELIVERY AND REDUCING HEALTH CARE DISPARITIES IN UNDERSERVED COMMUNITIES AWARD**

<b>Investigator/s</b>	<b>Campus</b>	<b>Proposal Title</b>
Muldoon, K.	Glendale	Stop CMV AZ: Improving Healthcare Delivery and Reducing Health Care Disparities for Childbearing People and Children in Arizona
Simpson, E., Robinson, M.	Downers Grove	Building a Home: Skills to Manage Housing in Marginalized Young People Experiencing Homelessness

Total Health Care Delivery Research Funding: \$19,657

### **ONE HEALTH RESEARCH AWARDS**

<b>Investigator/s</b>	<b>Campus</b>	<b>Proposal Title</b>
Rodriguez Sosa, J.	Glendale	Determination of Spermatogenesis Established by Transplanted Spermatogonial Stem Cells and Sertoli Cells from Piglets into Mouse Testes
Traka, M.	Downers Grove	Role of NAA Hydrolysis in CNS Myelination

Total One Health Research Funding: \$13,747

**TOTAL MWU INTRAMURAL FUNDING AWARDED BY ALL COLLEGES DURING THIS REPORTING PERIOD: \$454,066**

## FY25 ANNUAL REPORT

### UNIVERSITY-FUNDED RESEARCH SUPPORT POSITIONS BY CAMPUS\*

MWU "HARD MONEY" RESEARCH SUPPORT POSITIONS		
CAMPUS	FTE	TOTAL COMPENSATION FOR REPORTING PERIOD
DOWNERS GROVE, ILLINOIS	26.9	\$1,784,108
GLENDALE, ARIZONA	32.1	\$1,853,748
TOTAL	59.0	\$3,637,856

\*THIS INCLUDES FUNDED OR FILLED, TEMPORARY OR PERMANENT POSITIONS. THIS DOES NOT INCLUDE "SOFT MONEY" RESEARCH POSITIONS FUNDED BY GRANTS OR CONTRACTS.

**TOTAL COMPENSATION TO ALL COLLEGES FOR RESEARCH SUPPORT POSITIONS IN THIS REPORTING PERIOD IS \$3,637,856**

### UNIVERSITY-FUNDED CAPITAL RESEARCH EQUIPMENT

Another manner in which MWU supports research is through consideration and funding of capital research equipment requests submitted by departments. In FY2025, MWU spent \$1,040,233 on capital equipment purchases for research purposes across both campuses.

### UNIVERSITY-FUNDED *PER DIEM* CHARGES

MWU also supports research through the waiving of animal *per diem* charges for those seeking extramural funding. During FY2025, MWU waived \$357,149 in animal *per diem* charges across both campuses.

### UNIVERSITY-FUNDED RECAPTURED SALARIES AS "ADDITIONAL COMPENSATION"

Finally, another way that MWU supports research is through offering additional pay to faculty who receive grants which support "hard money" salary positions. When grant funds are exhausted the additional pay is eliminated. During FY2025, MWU paid out \$458,430 as "Additional Compensation" to faculty Principal Investigators on grants. This payment is available to all faculty who receive extramural funding for their research, subject to the ORSP's *Recaptured Salaries on Grants* policy.

# **FY25 ANNUAL REPORT**

## **UNIVERSITY-FUNDED STUDENT SUPPORT POSITIONS BY CAMPUS**

RESEARCH SUPPORT FOR STUDENTS IN DOWNERS GROVE, ILLINOIS		
ACTIVITY	NUMBER OF AWARDS	TOTAL FUNDING
RESEARCH POSTER PRINTING	332	\$8,149
TRAVEL TO PRESENT RESEARCH	72	\$35,961
FELLOWSHIPS#	66	\$322,000
TOTAL FUNDING IN SUPPORT OF STUDENT RESEARCH ACTIVITIES IN ILLINOIS		\$366,110

RESEARCH SUPPORT FOR STUDENTS IN GLENDALE, ARIZONA		
ACTIVITY	NUMBER OF AWARDS	TOTAL FUNDING
RESEARCH POSTER PRINTING	258	\$7,240
TRAVEL TO PRESENT RESEARCH	54	\$25,558
FELLOWSHIPS#	59	\$381,947
TOTAL FUNDING IN SUPPORT OF STUDENT RESEARCH ACTIVITIES IN ARIZONA		\$414,745

#Includes fellowships awarded in FY25, even though some payments are made in FY26.

**TOTAL FUNDING IN SUPPORT OF STUDENT RESEARCH  
ACTIVITIES ACROSS BOTH CAMPUSES IS \$780,855**

**Visit the ORSP website at**

**<https://www.midwestern.edu/research/office-research-sponsored-programs>**



# MWU FACULTY JOINT APPOINTMENTS

## AZCOM

Layla Al-Nakkash  
Karen Baab  
Nancy Bae  
Thomas Broderick  
Kimberly Bussey  
Gerald Call  
David Jon Carroll  
Jeremy Ellermeier  
Robert Fintelmann  
Sunhindra Gadagkar  
Justin Georgi

Aryeh Grossman  
Wade Grow  
Margaret Hall  
Jose Hernandez  
Elizabeth Hull  
Thu Huynh  
Sandra Inouye  
Garilyn Jentarra  
Nathan Johnson  
Douglas Jones  
T. Bucky Jones

Sam Katzif  
Jason Kaufman  
Laszlo Kerecsen  
Chongwoo Kim  
Shaleen Korch  
Lisa Kronstad  
Kathryn Lawson  
Andrew Lee  
Kathryn Leyva  
David Line  
Leigha Lynch

Adebayo Molehin  
Kathleen Muldoon  
Jeffery Norris  
Christopher Olson  
Matthew O'Neill  
Pamela Potter  
Michael Quinlan  
Parveen Ranjan  
Ann Revill  
Tobias Riede  
Minsub Shim

Erin Simons  
Heather Smith  
Mark Swanson  
Kathryn Townsend  
Tony Tullet  
Johana Vallejo-Elias  
Carrie Veilleux

## AZCOPT

Karen Baab  
Nancy Bae  
Aimee Beluch  
Thomas Broderick  
Gerald Call  
Daniel Deligio  
Jason Kaufman

Fernando Gonzalez  
Aryeh Grossman  
Wade Grow  
Margaret Hall  
Jose Hernandez  
Garilyn Jentarra  
Douglas Jones

Laszlo Kerecsen  
Shaleen Korch  
Kathryn Lawson  
Andrew Lee  
Kathryn Leyva  
David Line  
Leigha Lynch

Sarah Maxey  
Pamela Potter  
Michael Quinlan  
Parveen Ranjan  
Joshua Routh  
Melissa Suckow  
Mark Swanson

Kathryn Townsend  
Tony Tullet  
Johana Vallejo-Elias  
Carrie Veilleux

## AZCPM

Karen Baab  
Gerald Call  
Justin Georgi  
Wade Grow

T. Bucky Jones  
Sam Katzif  
Jason Kaufman  
Laszlo Kerecsen

Andrew Lee  
Kathryn Leyva  
Kathleen Muldoon  
Pamela Potter

Michael Quinlan  
Parveen Ranjan  
Erin Simmons  
Kathryn Towsend

Tony Tullet

## CCO

Hilal Arnouk  
Bryan Bjork  
Pauline Kolker Buck  
Ryan Capouch  
Kyle Henderson  
Sandra Inouye

Phillip Kopf  
Kathy LePard  
David Line  
Alejandro Mayer  
Paul McCulloch  
Rafael Mejia-Alvarez

Rebecca Ng  
Natalie Nguyen  
Marsha Pierce  
Maura Porta  
Luigi Strizzi  
Sinju Sundaresan

M. Swanson-Mungerson  
Julie Swartzendruber  
Martin Szul  
Vaibhav Tiwari  
Renier Velez-Cruz  
Susan Viselli

Michael Volin  
Julie Williams

## CCOM

Hilal Arnouk  
Bryan Bjork  
Thomas Bodenshtein  
Timothy Campbell  
Arijit Chakraborty  
Mae Ciancio  
J. Wesley Cook  
Michael Ebeid  
Joshua Edwards  
Michael Fay  
Michele Fornaro

Eric Gorscak  
Sam Gutherz  
William Hampton  
Ying He  
Kurt Heinking  
Kyle Henderson  
Sandra Inouye  
John Kasimos  
Ji Eun Kim  
Phillip Kopf  
Richard Laddaga

Kathy LePard  
Erin Leslie  
Kristina Martinez-Guryan  
Alejandro Mayer  
Paul McCulloch  
Rafael Mejia-Alvarez  
Orhay Mirzapolos  
William Moran  
Kathleen O'Hagan  
Marsha Louise Pierce  
Maura Porta

Walter Prozialeck  
Prasanth Puthanveetil  
Terrence Ritzman  
Cai Roberts  
Alexander Rosenberg  
Frank Serrechia  
Ira Sigar  
Erin Stephenson  
Luigi Strizzi  
Sinju Sundaresan  
M. Swanson-Mungerson

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Susan Viselli  
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## CDMA

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## **CDMI**

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I. M. P. Valenzuela

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Maura Porta  
Janey Prodoeh  
Walter Prozialeck  
Prasanth Puthanveetil

Terrence Ritzman  
Cai Roberts  
A.J. Rosenberg  
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M. Swanson Mungerson  
Julie Swartzendruber

Vaibhav Tiwari  
Maria Traka  
Susan Viselli  
Michael Volin  
Renier Velez-Cruz

## **CGS**

Mark Acierno  
Shridhar Andurkar  
Clemence Chako  
Tamer Elbayoumi

Christian Evans  
Vanthida Huang  
Melanie Jordan  
Medha Joshi

Rachael Kreisler  
Jung Keun Lee  
Weidang Li  
John Mitchell

Ogi Okwumabua  
Mark Olsen  
Byron Russell  
Marc Scheetz

Charles Veltri  
Volkmar Weissig  
Kathryn Wycislo  
Mingyi Yao

## **CHS-DG**

Bryan Bjork  
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Michael Volin

## **CPG**

John Hnida  
Sam Katzf

Chongwoo Kim  
Kathryn Leyva

Michael Quinlan  
Mark Swanson

Johana Vallejo-Elias

## **CVM**

Layla Al-Nakkash  
Lori Buhlman  
Delrae Eckman  
Jeremy Ellermeier  
Justin Georgi  
Aryeh Grossman  
Wade Grow  
Nicholas Haley

Margaret Hall  
Christopher Heesy  
John Hnida  
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Felicia Trembath  
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Carrie Veilleux