

Research Annual Report

REPORT PERIOD
7/1/13-6/30/14

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Theresa W. Fossum, DVM, PhD
Vice President of Research & Strategic Initiatives



James M. Woods, PhD
Director, Office of Research & Sponsored Programs



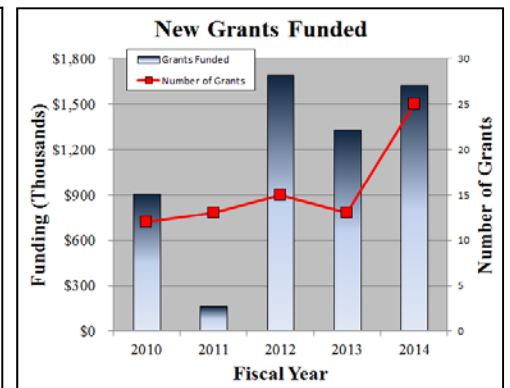
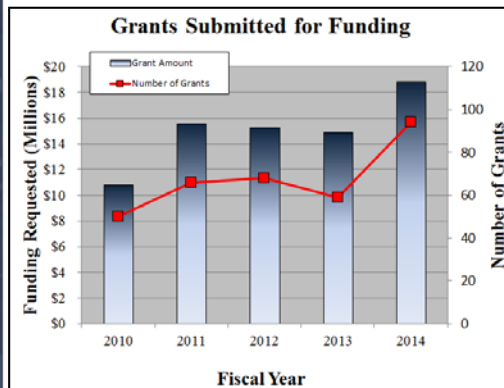
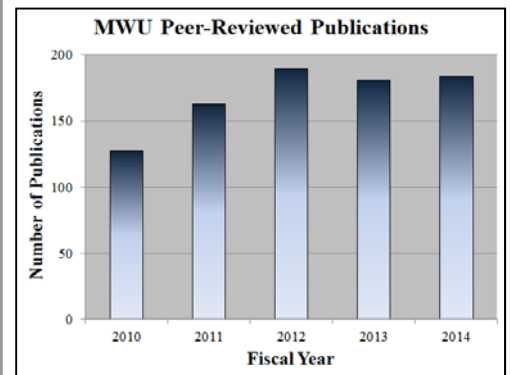
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Educating Tomorrow's Healthcare Team

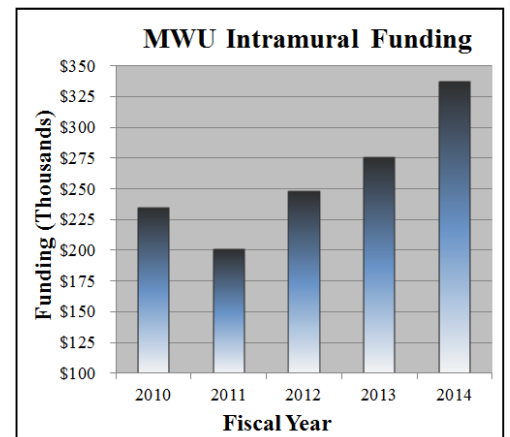
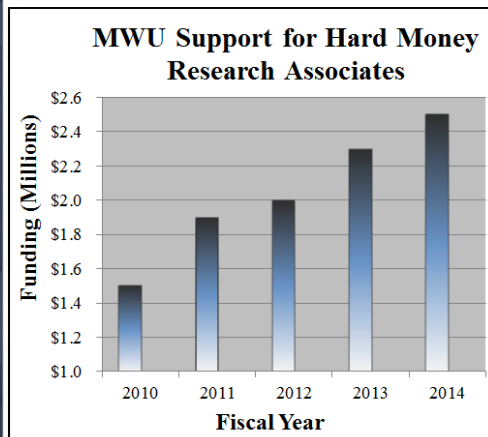
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Midwestern University's (MWU's) *Research Annual Report* demonstrates research achievements of which members of the MWU community should be proud. As you will see inside this report, the total of all active extramural awards at MWU during this year has exceeded \$4.1 million. The front page graphs show some historical data over the last five years, highlighting MWU'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.

Historical Research Activity Data



Historical Research Support Data



Note: This chart does not include MWU match funding.

OFFICE OF RESEARCH & SPONSORED PROGRAMS

**ARIZONA COLLEGE OF OSTEOPATHIC MEDICINE (AZCOM):
SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Alexander, L.	AZCOM	Physiology	The Role of Soluble Epoxide Hydrolase in Experimental Obstructive Nephropathy	6/16/2014	\$558,750	NIH-R03	4/1/2015
Al-Nakkash, L.	AZCOM	Physiology	Dietary Genistein Improves Intestinal Function in a Model of Diabetes; Mechanism?	5/28/2014	\$60,000	DiaComp	9/1/2014
Al-Nakkash, L.	AZCOM	Physiology	Understanding the Effects of Genistein in Mouse Models of Diabetes and Obesity	7/15/2013	\$345,000	American Diabetes Association	1/1/2014
Al-Nakkash, L.	AZCOM	Physiology	Understanding the Mechanism for Genistein-mediated C1 Secretion in Diabetes	3/14/2014	\$25,000	Soy Health Research Program	11/1/2014
Bae, N.	AZCOM	Biochemistry	The Telomere Protective RAP1 Modulation of PS Activity in Alzheimer's Disease	2/14/2014	\$42,740	Arizona Alzheimer's Disease Core Center	7/1/2014
Call, G.	AZCOM	Pharmacology	Determination of Dopaminergic Neuronal Activity in the Intact Drosophila Brain	2/14/2014	\$47,493	Arizona Alzheimer's Disease Core Center	7/1/2014
Carlson, G.	AZCOM	Physiology	The Phenotypic Consequences of ActRIIB and TGFbetaRII Receptor Inhibition in mcx and mdx Telomerase Deficient Dystrophic Models for Duchenne Muscular Dystrophy	10/4/2013	\$126,134	Association Francaise Contre Les Myopathies	3/1/2014
Carroll, C.	AZCOM	Physiology	Acetaminophen: A Novel Intervention for Diabetic Tendinopathy	7/15/2013	\$327,540	American Diabetes Association	1/1/2014
Carroll, C.	AZCOM	Physiology	Novel Effects of Genistein on Tendon Remodeling in a Model of Estrogen Deficiency	2/14/2014	\$464,996	NIH-R15	9/1/2014
Carroll, C.	AZCOM	Physiology	Novel Effects of Genistein on Tendon Remodeling in a Model of Estrogen Deficiency	3/15/2014	\$25,000	Soy Health Research Program	10/1/2014
Gonzalez, F.	AZCOM	Microbiology	Identification of Proteolytic Targets Involved in Fungal Pathogenesis	11/18/2013	\$138,245	NIH-R03	7/1/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

AZCOM (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Hernandez, J.	AZCOM	Biochemistry	NF Cereals-Engineering N ₂ Fixation in Mitochondria	3/5/2014	\$14,000	Bill & Melinda Gates Foundation Subcontract with the Universidad Politécnica de Madrid, Spain	4/7/2014
Jentarra, G.	AZCOM	Biochemistry	Tissue-specific MeCP2 Complexes and the Role of ATRX in MeCP2-mediated Dendritic Arbor Development	8/19/2013	\$100,000	International Rett Syndrome Foundation	7/1/2014
Jones, D.	AZCOM	Pharmacology	Characterization of Muscarinic M1 Receptor Uncoupling in Alzheimer's Disease	2/14/2014	\$44,700	Arizona Alzheimer's Disease Core Center	7/1/2014
Jones, T.B.	AZCOM	Anatomy	Motoneuron Pool Plasticity Following Spinal Cord Injury	4/11/2014	\$4,798	NIH-R01 Subcontract with St. Joseph's Hospital and Medical Center	5/1/2014
Kamilar, J.	AZCOM	Anatomy	Collaborative Research: Uncovering the Impacts of Phylogeny, Species Interactions and the Environment on Primate Communities Worldwide	3/17/2014	\$112,443	NSF	10/1/2014
Kamilar, J.	AZCOM	Anatomy	The Evolution of Hair and Fur: Proximate and Ultimate Mechanisms Underlying Prima	8/2/2013	\$62,337	NSF	3/1/2014
Kamilar, J.	AZCOM	Anatomy	Pattern and Process in Extant and Extinct Primate Communities	8/2/2013	\$104,775	NSF	6/15/2014
Korch, S.	AZCOM	Pharmacology	Regulation of the reIBE Toxin-Antitoxin Module in Mycobacterium Tuberculosis	2/25/2014	\$444,941	NIH-R15	9/1/2014
Lawson, K.	AZCOM	Biochemistry	The Role of P-cadherin in Dysplastic Progression of Oral Epithelia	1/31/2014	\$369,805	NIH-R15	12/1/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

AZCOM (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Valla, J.	AZCOM	Biochemistry	Midwestern Alzheimer's Advisory Committee Funding	6/18/2014	\$108,375 (includes \$58,375 matched funds)	Arizona Department of Health Services through the Arizona Alzheimer's Consortium	7/1/2014
Valla, J.	AZCOM	Biochemistry	Early Brain Changes Associated with Apolipoprotein E-4-related Neurological Risk	2/5/2014	\$1,387,496	NIH-R01	9/1/2014
Vinay, Janthakahalli, N.	AZCOM	Biochemistry	Layered Double Hydroxide Theranostics Intercalated with Gd Chelates and Drugs	11/18/2013	\$31,876	NIH-R21 Subcontract with Arizona State University	7/1/2014
Vinay, Janthakahalli, N.	AZCOM	Biochemistry	Relaxivity Enhancement of Chelated-Gd MRI Contrast Agents by Intercalation into Layered Double Hydroxide	11/13/2013	\$46,435	NSF-R21 Subcontract with Arizona State University	7/1/2014

Total of AZCOM Submitted Proposals: \$4,992,879

ARIZONA COLLEGE OF OPTOMETRY (AZCOPT): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Gaib, S.	AZCOPT	Optometry	Low Toric Soft Contact Lens Acceptance Study—Phase II	3/3/2014	\$23,664	Contamac	4/1/2014
Kozlowski, M.	AZCOPT	Optometry	Development of New Agents to Treat AMD from the ANP Family Peptides	8/5/2013	\$89,425	NIH-STTR Subcontract with Kalos Therapeutics, Inc.	4/1/2014
Kozlowski, M.	AZCOPT	Optometry	Evaluation of Telomerase Activating Agents for Preventing and Treating of Dry AMD	10/31/2013	\$47,650	Portes Foundation and The Institute of Medicine of Chicago	1/1/2014

Total of AZCOPT Submitted Proposals: \$160,739

OFFICE OF RESEARCH & SPONSORED PROGRAMS

**CHICAGO COLLEGE OF OSTEOPATHIC MEDICINE (CCOM):
SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Bjork, B.	CCOM	Biochemistry	Prdm16 and Mecom in Mouse Embryonic Mandible and Palate Development	11/18/2013	\$446,940	NIH-R15	7/1/2014
Chandar, N.	CCOM	Biochemistry	Regulation of Osteoblast Function by the Retinoblastoma Gene	6/25/2014	\$432,625	NIH-R15	4/1/2015
Graneto, J.	CCOM	Clinical Integration	MBTI Personality Type of 4th Year Osteopathic Students and Their Career Choice	2/14/2014	\$4,879	American Association of Colleges of Osteopathic Medicine	3/1/2014
Graneto, J.	CCOM	Clinical Integration	Relationship Between Electives Chosen by Osteopathic Medical Students and Their Ultimate Specialty Match Result	1/23/2014	\$4,997	American Association of Colleges of Osteopathic Medicine	7/1/2014
Henderson, K.	CCOM	Physiology	Analytical Assessment of the Cranial Rhythmic Impulse	6/16/2014	\$303,528	NIH-R21 (NCCAM)	4/1/2015
Henderson, K.	CCOM	Physiology	Visual, Mechanical and Clinical Confirmation of the CRI	12/8/2013	\$40,421	American Osteopathic Association	9/1/2014
Kopf, P.	CCOM	Pharmacology	The Role of 12-Lipoxygenase in Aldosterone Secretion	11/18/2013	\$417,261	NIH-R15	7/1/2014
Kopf, P.	CCOM	Pharmacology	The Role of 12-Lipoxygenase in Aldosterone Secretion	7/18/2013	\$308,000	American Heart Association	1/1/2014
LaSalle, S.	CCOM	Biochemistry	SPATA22 Function in Meiosis and Fertility	11/18/2013	\$447,000	NIH-R15	7/1/2014
Li, W.	CCOM	Pathology	Contribution of Neutrophil/ CD8 T Cell Axis in Chlamydial Pathogenesis	2/14/2014	\$409,750	NIH-R21	9/1/2014
Mayer, A.	CCOM	Pharmacology	Native American Botanical Medicines - Cancer, Depression and Inflammation	6/6/2014	\$1,182,660	NIH-P50 Subcontract with the University of Mississippi	4/1/2015
Mayer, A.	CCOM	Pharmacology	Novel Therapeutics from Indonesia's Plant and Animal Microbiomes	12/6/2013	\$35,417	NIH International Cooperative Biodiversity Group Collaboration with University of Mississippi	7/1/2014
Mayer, A.	CCOM	Pharmacology	Cyanobacterial LPS and Microglia Activation States	11/18/2013	\$462,862	NIH-R15	7/1/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CCOM (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Mejia-Alvarez, R.	CCOM	Physiology	Control of IP ₃ R-Mediated Calcium Release	10/5/2013	\$109,990	NIH-R01 Subcontract with Rush University Medical School	7/1/2014
Mejia-Alvarez, R.	CCOM	Physiology	Subcellular Origin of T-wave Alternans in Intact Mouse Heart	7/5/2013	\$142,349	NIH-R01 Subcontract with University of CA, Merced	7/1/2014
Murthy, A., Ramsey, K. & co-submitted with Joshi, M. from CCP	CCOM	Pathology Microbiology & Immunology	Indo-US <i>Chlamydia</i> Vaccine Development Joint Workshop	8/15/2013	\$30,149 Value of directly supported travel expenses	Department of Science and Technology, India	1/1/2014
Murthy, A., Ramsey, K. & co-submitted with Joshi, M. from CCP	CCOM	Pathology Microbiology & Immunology	Indo-US Combat <i>Chlamydia</i> Center (Joint Networked Centers)	8/15/2013	\$80,700 Value of directly supported travel expenses	Department of Science and Technology, India	1/1/2014
Prozialeck, W.	CCOM	Pharmacology	Cadmium-collagen Interactions in Bone Matrix	11/18/2013	\$91,898	NIH-R15 Subcontract with College of Idaho	7/1/2014
Ramsey, K.	CCOM	Microbiology	Isolation of Novel Rodent Chlamydiae	6/16/2014	\$422,838	NIH-R21	4/1/2015
Swanson-Mungerson, M.	CCOM	Microbiology	Role of Epstein-Barr Virus LMP2A on the Tumor Microenvironment	6/17/2014	\$446,988	NIH-R15	7/1/2015
Tiwari, V.	CCOM	Microbiology & Immunology	Novel Peptides Against Modified Heparan Sulfate	7/16/2013	\$204,875	NIH-R21 Subcontract with University of Illinois Chicago	4/1/2014
Tiwari, V.	CCOM	Microbiology & Immunology	Study 3-O Sulfated Heparin Sulfate in Virus Infection	10/4/2013	\$620,765	NIH-R01 Subcontract with University of Illinois Chicago	7/1/2014
Tiwari, V.	CCOM	Microbiology & Immunology	Virostatic Nanoparticles: A New Generation of Viral Inhibitors	6/16/2014	\$204,875	NIH-R21 Subcontract with University of Illinois Chicago	4/1/2015

Total of CCOM Submitted Proposals: \$6,851,767

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CHICAGO COLLEGE OF PHARMACY (CCP): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Gulati, A.	CCP	Pharmaceutical Sciences	Biologic and Molecular Evaluation of Centhaquin in Hypovolemic Shock	10/24/2013	\$1,324,086	NIH-R01	7/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Effect of Maternal CB1 Receptor Stimulation on Angiogenesis, Neurogenesis and Expression of ETB Receptors During Postnatal Development	6/16/2014	\$149,000	NIH-R03	4/1/2015
Gulati, A.	CCP	Pharmaceutical Sciences	IND Enabling Studies for Centhaquin as a Resuscitative Agent for Hypovolemic Shock	3/28/2014	\$18,859	NIH-SBIR Subcontract with Pharmazz, Inc.	9/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Mechanistic Evaluation of ETB Receptor Stimulation in Cerebral Ischemia	11/18/2013	\$447,000	NIH-R15	7/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Mechanistic Evaluation of Liraglutide as a Neuroprotectant in Cerebral Ischemia	4/30/2014	\$57,077	Novo Nordisk	6/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Nanocarrier Formulation of ETB Receptor Agonist, IRL-1620 for the Treatment of Alzheimer's Disease	5/27/2014	\$103,902	Alzheimer's Drug Discovery Foundation	10/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Regulation of Blood Brain Barrier by Sphenopalatine Ganglion	1/27/2014	\$75,926	Tian Medical, Inc.	2/3/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Resuscitative Effect of Centhaquin in Hemorrhagic Shock	6/25/2014	\$447,000	NIH-R15	4/1/2015
Joshi, M.	CCP	Pharmaceutical Sciences	Targeted Delivery of ETB Receptor Agonist, IRL-1620, in the Treatment of Stroke	9/3/2013	\$10,000	American Association of Colleges of Pharmacy	1/1/2014
Mirk, S.	CCP	Pharmacy Practice	Mobile Solutions for Patient Education in Ambulatory Care Pharmacy Practice	9/15/2013	\$1,767	American College of Clinical Pharmacy	10/1/2013
Scheetz, M.	CCP	Pharmacy Practice	Assessing Worldwide Antimicrobial Resistance Evaluation (AWARE) Surveillance Program	2/17/2014	\$1,430	JMI Laboratories	2/26/2014
Scheetz, M.	CCP	Pharmacy Practice	Beyond Benchmarking: Evaluation of Carbapenem Utilization in a National Network	9/1/2013	\$10,495	Cubist Pharmaceuticals Subcontract with Wayne State University	10/1/2013

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CCP (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Venkatesan, N.	CCP	Pharmaceutical Sciences	Formulation Approach to Improve the Bioavailability of Poorly Water Soluble Drugs	9/2/2013	\$100,000	Pharmaceutical Research and Manufacturers of America Foundation	1/1/2014
Venkatesan, N.	CCP	Pharmaceutical Sciences	Development of Alcohol Resistant Coat for Delayed Release Dosage Forms	9/3/2013	\$10,000	American Association of Colleges of Pharmacy	1/1/2014

Total of CCP Submitted Proposals: \$2,756,542

COLLEGE OF DENTAL MEDICINE ARIZONA (CDMA): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Halket, C. (Dammann, A., 3rd Year Dental Student)	CDMA	Dental	The Effects of Bioactive Glass Spray on Dentin	1/14/2014	\$2,100	American Association for Dental Research	4/1/2014
Mitchell, J. (Roberts, H., 2nd Year Dental Student)	CDMA	Dental	Antibacterial Effects of Synthetic Bone Grafting Materials	4/24/2014	\$4,410	Impladent, Ltd.	5/15/2014
Mitchell, J. (Corson, J., 3rd Year Dental Student)	CDMA	Dental	Novel Bioactive Glass-containing Pit and Fissure Sealants	1/4/2014	\$6,000	Academy of Operative Dentistry	3/1/2014
Mitchell, J. (Topliff, C., 3rd Year Dental Student)	CDMA	Dental	Bioactive Glass-containing Adhesives for Orthodontic Brackets: Shear Bond Strength Study Over Time	1/8/2014	\$2,100	American Association for Dental Research	3/1/2014
Mitchell, J. (Topliff, C., 3rd Year Dental Student)	CDMA	Dental	Bioactive Glass-containing Adhesives for Orthodontic Brackets: Study of Bond Strength	1/4/2014	\$6,000	Academy of Operative Dentistry	3/1/2014
Smith, P. (Forgues, C., 3rd Year Dental Student)	CDMA	Dental	Physical and Mechanical Properties of Bio-active Glass Containing Pit and Fissure	1/15/2014	\$2,100	American Association for Dental Research	4/1/2014

Total of CDMA Submitted Proposals: \$22,710

OFFICE OF RESEARCH & SPONSORED PROGRAMS

COLLEGE OF DENTAL MEDICINE ILLINOIS (CDMI): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Kanjirath, P.	CDMI	Dental	The Effectiveness of Digital Technology (prepCheck) in Faculty Calibration	6/18/2014	Value of \$19,320	Sirona Dental, Inc.	7/1/2014

Total of CDMI Submitted Proposals: \$19,320

COLLEGE OF HEALTH SCIENCES (CHS): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Esfandiarei, M.	CHS	Biomedical Sciences	Evaluation of Cardiac Function and Structure in a Mouse Model of Marfan Syndrome	2/28/2014	\$74,892	The Marfan Foundation	7/1/2014
Gadagkar, S.	CHS	Biomedical Sciences	Determining Altered Physiological Function from Altered Evolutionary Constraints	11/18/2013	\$1,383,026	NIH-R21/R33	8/1/2014
Gadagkar, S.	CHS	Biomedical Sciences	In Silico Detection and Experimental Verification of Altered Function from NSPs	2/14/2014	\$372,500	NIH-R21	12/1/2014
Helminski, J.	CHS	Physical Therapy	Reliability of the Video Head Impulse Test in Children	9/2/2013	\$8,698	American Physical Therapy Association	1/1/2014
Kristjansdottir, K.	CHS	Biomedical Sciences	Phosphorylation and OGlCNacylation in Neuroblastoma	10/23/2013	\$10,000	NIH-R21 Subcontract with University of Chicago	7/1/2014
Kristjansdottir, K.	CHS	Biomedical Sciences	The Role of NPM1 and its Interactome in Neuroblastoma	9/6/2013	\$100,000	American Cancer Society, Illinois	11/1/2013
Krzak, J.	CHS	Physical Therapy	The Effect of Functional Strengthening on Mobility and Activity in Osteogenesis Imperfecta	2/28/2014	\$41,197	US Department of Education Subcontract with Marquette University	10/1/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CHS (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Krzak, J.	CHS	Physical Therapy	Transitional Care to Improve Health and Function in Youth with Cerebral Palsy	1/28/2014	\$141,526	US Department of Education Subcontract with Marquette University	10/1/2014
Soby, S.	CHS	Biomedical Sciences	Comparison of the Microbiota Associated with Native and Commercial Cranberry	4/17/2014	\$499,992	US Department of Agriculture AFRI-NIFA	1/1/2015

Total of CHS Submitted Proposals: \$2,631,831

COLLEGE OF PHARMACY GLENDALE (CPG): SUBMITTED PROPOSALS

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Dietrich, M.	CPG	Administration	CPG Target Campus Grant	10/1/2013	\$3,000	Target	1/1/2014
Dietrich, M.	CPG	Administration	Target Scholarship Case Competition: Health and Well Being	4/1/2014	\$3,000	Target	9/1/2014
Elbayoumi, T.	CPG	Pharmaceutical Sciences	Mitochondria-Targeted Genistein Lipid Nanocarriers	9/3/2013	\$10,000	American Association of Colleges of Pharmacy	1/15/2014
Elbayoumi, T.	CPG	Pharmaceutical Sciences	Mitochondria-Targeted Genistein Lipid Nanocarriers for Combination Cancer Therapy	10/1/2013	\$101,381	Pardee Foundation	3/1/2014
Jordan, M.	CPG	Pharmaceutical Sciences	Development of an Inexpensive and Accurate Tool for the Assessment of Volumetric Syringe Transfers by Pharmacy Personnel	12/31/2013	\$4,591	International Academy of Compounding Pharmacists Foundation	2/1/2015
Olsen, M.	CPG	Pharmaceutical Sciences	ASPH as a Therapeutic Target for Pancreatic Cancer	2/5/2014	\$514,625	NIH-R01 Subcontract with University of Rhode Island	10/1/2014
Olsen, M.	CPG	Pharmaceutical Sciences	Second Generation Beta-Hydroxylase Inhibitors for the Treatment of Hepatocellular Carcinoma	6/16/2014	\$514,855	NIH-R01 Subcontract with University of Rhode Island	4/1/2015

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CPG (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Olsen, M.	CPG	Pharmaceutical Sciences	Targeted Therapy of Pancreatic Cancer Invasion and Metastases	10/23/2013	\$55,296	NIH-R21 Subcontract with University of Rhode Island	7/1/2014
Tsu, L.	CPG	Pharmacy Practice	AFPE Faculty Development Fellowship in Geriatric Pharmacy	4/1/2014	\$25,000	American Foundation for Pharmaceutical Education	9/1/2014
Tsu, L.	CPG	Pharmacy Practice	Health Outreach through Medicine and Education (H.O.M.E.)	8/28/2013	\$18,500	American Association of Colleges of Pharmacy	2/1/2014
Tsu, L.	CPG	Pharmacy Practice	Effect of Medication Reconciliation and Pharmacist Intervention on Adherence Rates	9/3/2013	\$7,266	American Association of Colleges of Pharmacy	1/1/2014
Veltri, C.	CPG	Pharmaceutical Sciences	Antimicrobial Effects of Natural Products Derived From Sonoran Desert Plants	3/31/2014	\$2,000	Arizona Native Plant Society	7/1/2014
Weissig, V.	CPG	Pharmaceutical Sciences	Nanoliposome Treatment of Amyloid Protein (AL) Toxicity	10/5/2013	\$96,820	NIH-R01 Subcontract with Phoenix VA	8/1/2014
Weissig, V.	CPG	Pharmaceutical Sciences	Targeted Delivery of Mitoxantrone for the TRAIL-Sensitization of Prostate Cancer	11/16/2013	\$36,090	NIH-R21 Subcontract with Arizona State University	7/1/2014

Total of CPG Submitted Proposals: \$1,392,424

**MWU SUBMITTED 94 PROPOSALS FROM ALL COLLEGES
FOR FISCAL YEAR 2014: \$18,828,212**

MWU NEW EXTRAMURAL GRANTS FUNDED

AZCOM

Layla Al-Nakkash, Ph.D., Department of Physiology has received a grant from Diabetes Action Research and Education Foundation to support her project “Improving Intestinal Function in the ob/ob Mouse, a Model of Type II Diabetes” totaling \$10,000.

Garilyn Jentarra, Ph.D., Department of Biochemistry has received a grant from the Arizona Department of Health Services through the Arizona Alzheimer’s Research Center, Inc. for her project “Neuron Structure and Plasticity in Young-adult APOE4 Carriers and Non-carriers” in the amount of \$10,000. An additional \$10,000 required match was provided by MWU.

T. Bucky Jones, Ph.D., Department of Anatomy, has received a subaward agreement from St. Joseph’s Hospital and Medical Center, on an R01 grant from the National Institutes of Health to support the project “Motoneuron Pool Plasticity Following Spinal Cord Injury” in the amount of \$4,798.

Jason Kamilar, Ph.D., Department of Anatomy, in collaboration with Yale University, has received a grant from the National Science Foundation to support the project “The Evolution of Hair and Fur: Proximate and Ultimate Mechanisms Shaping Primate Pelage Variation” totaling \$57,337.

Jason Kamilar, Ph.D., Department of Anatomy received funding from The Wenner-Gren Foundation for his project “The Evolution of Primate Hair Morphology: A Comparative Approach” totaling \$18,819.

Jonathan Valla, Ph.D., Department of Biochemistry received a grant from the Arizona Department of Health Services through the Arizona Alzheimer’s Research Center, Inc. for the project “Modes and Mechanisms for the Early Detection, Tracking and Treatment of Alzheimer’s Disease and Associated Disorders” in the amount of \$10,000. MWU peer-reviewed subrecipients include: **Jonathan Valla, Ph.D., Department of Biochemistry** (\$4,475); **Jason Kaufman, Ph.D., Department of Anatomy** (\$2,747); **Mark Olsen, Ph.D., Department of Pharmaceutical Sciences, CPG** (\$1,278); **Douglas Jones, Ph.D., Department of Pharmacology** (\$750) and **Johana Vallejo, Ph.D., Department of Physiology** (\$750). An additional \$10,000 required match was provided by MWU.

Kate Worden, D.O., Department of Osteopathic Manipulative Medicine was awarded an agreement from A.T. Still University/A.T. Still Research Institute for the project “Use and Effectiveness of Osteopathic Manipulative Medicine in the Clinical Setting” totaling \$1,500.

Total New Extramural Funding Awarded to AZCOM: \$112,454

AZCOPT

Wendy Harrison, M.S., O.D., Ph.D., Department of Optometry has received funding from the CLAY Study Group for her project “Multisite Fielding of CLAY SIGHT Tool to Active Red Eye Clinical Population: AKA CLAY Red Eye Lite” totaling \$600.

Michael Kozlowski, O.D., Ph.D., Department of Optometry has received funding from the Portes Foundation and the Institute of Medicine Chicago for his project “Evaluation of Telomerase Activating Agents for Prevention and Treatment of Dry AMD” totaling \$42,650.

MWU NEW EXTRAMURAL GRANTS FUNDED

AZCOPT (Continued)

Michael Kozlowski, O.D., Ph.D., Department of Optometry has received a collaborative research agreement from Kalos Therapeutics for his project “Antiproliferative Activity of a New Class of Peptides” valued at \$72,523.

Total New Extramural Funding Awarded to AZCOPT: \$115,773

CCOM

Kurt Heinking, D.O., FAAO, Department of Osteopathic Manipulative Medicine and Kyle Henderson, Ph.D., Department of Physiology received notice of grant award from the American Association of Colleges of Osteopathic Medicine for their project “Improving Osteopathic Postdoctoral Training with Basic Science and Osteopathic Manipulative Medicine” totaling \$5,000.

Ashlesh Murthy, M.D., Ph.D., Department of Pathology was awarded a NIH-R15 grant for his project “Mechanism(s) of CD8⁺T Cell-mediated *Chlamydia*-induced Reproductive Pathology” totaling \$459,396.

Ashlesh Murthy, M.D., Ph.D., Department of Pathology was awarded a grant from the American Heart Midwest Affiliate for his project “Immunopathogenesis of *Chlamydia Pneumoniae* Mediated Atherosclerosis” totaling \$214,500.

Caley Orr, Ph.D., Department of Anatomy was awarded a grant from the NSF for his project “Comparative Morphological Analysis of the Hand and Wrist in *Ardipithecus Ramidus* and Miocene Hominoids” totaling \$52,899.

Total New Extramural Funding Awarded to CCOM: \$731,795

CCP

Jacob Gettig, Pharm.D., MPH, Assistant Dean for Postgraduate Education has received a grant from the National Association of Chain Drug Stores Foundation to support his project “Community Pharmacy Residency Expansion Project” totaling \$50,000.

Anil Gulati, M.D., Ph.D., Associate Dean has been awarded funding from Tian Medical, Inc. to support his project “Regulation of Blood Brain Barrier by Sphenopalatine Ganglion” totaling \$75,926.

Marc Scheetz, Pharm.D. MSc, Department of Pharmacy Practice has been awarded a research service agreement from JMI Laboratories in support of the project “Assessing Worldwide Antimicrobial Resistance Evaluation (AWARE) Surveillance Program 2014” totaling \$1,430.

Marc Scheetz, Pharm.D., MSc, Department of Pharmacy Practice has received notice of award from the National Institutes of Health for his project “Elucidation of an Informed Drug Dosing Scheme to Minimize Kidney Injury” totaling \$458,764.

MWU NEW EXTRAMURAL GRANTS FUNDED

CCP (Continued)

Marc Scheetz, Pharm.D., MSc, Department of Pharmacy Practice has received a subaward agreement from Northwestern University on a K24 award funded by the National Institutes of Health to support the project “Patient-Oriented Research on Hospital-Acquired Pathogens” totaling \$36,682.

Marc Scheetz, Pharm.D., MSc, Department of Pharmacy Practice and Wayne State University have received a notice of award from Cubist Pharmaceuticals to support the collaborative project “Beyond Benchmarking: Evaluation of Carbapenem Utilization in a National Network” totaling \$10,479.

Total New Extramural Funding Awarded to CCP: \$633,281

CDMA

John Mitchell, Ph.D., Director of Dental Material has received funding from Implants, Ltd. for his project “Antibacterial Effects of Synthetic Bone Grafting Materials” in the amount of \$4,410.

Total New Extramural Funding Awarded to CDMI: \$4,410

CHS

Mae Ciancio, Ph.D., Biomedical Sciences Program has received funding from the National Institutes of Health through the American Physiological Society STEP-UP Summer Research Program in the amount of \$500 for research expenses for her mentorship participation.

Karen Farrell, PsyD, Department of Behavioral Medicine has received a grant agreement from the Illinois Violence Prevention Authority for her project “StrongGirls/StrongBoys Bullying Psychoeducational & Prevention Program” in the amount of \$18,000.

Total New Extramural Funding Awarded to CHS: \$18,500

CPG

Michael Dietrich, Pharm.D. BCPS, Assistant Dean has received a grant from Target for his project “CPG Target Campus Grant” totaling \$3,000.

Elizabeth Pogge, Pharm.D., Department of Pharmacy Practice has received notice of award from the American Association of Colleges of Pharmacy to support her project “A Pilot Program to Assess the Efficacy of Interprofessional Screening Events at a Retail Food Market” totaling \$5,000.

Total New Extramural Funding Awarded to CPG: \$8,000

**TOTAL MWU NEW EXTRAMURAL FUNDING AWARDED TO ALL COLLEGES
IN THIS REPORT PERIOD: \$1,624,213**

OFFICE OF RESEARCH & SPONSORED PROGRAMS

AZCOM: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Al-Nakkash, L.	AZCOM	Physiology	Improving Intestinal Function in the ob/ob Mouse, a Model of Type II Diabetes	\$10,000	Diabetes Action Research and Education Foundation	1/1/2014	12/31/2015
Broderick, T.	AZCOM	Physiology	The Cardiac Oxytocin System in Diabesity	\$15,000	Diabetes Research and Action Education Foundation	1/1/2012	12/31/2014
Grossman, A.	AZCOM	Anatomy	New Paleontological Investigation as the Miocene Site of Loperot Turkana District, Kenya	\$20,000	The Leakey Foundation	5/20/2011	7/1/2013
Hernandez, J.	AZCOM	Biochemistry	NF Cereals-Engineering N ₂ Fixation in Mitochondria	\$14,000	Bill & Melinda Gates Foundation Subcontract with the Universidad Politécnica de Madrid, Spain	4/1/2013	12/31/2013
Jentarra, G.	AZCOM	Biochemistry	Neuron Structure and Plasticity in Young-adult APOE4 Carriers and Non-carriers	\$10,000	Arizona Department of Health Services through the Arizona Alzheimer's Research Center, Inc.	7/1/2013	6/30/2014
Jones, T.B.	AZCOM	Anatomy	Motoneuron Pool Plasticity Following Spinal Cord Injury	\$4,798	NIH-R01 Subcontract with St. Joseph's Hospital and Medical Center	5/1/2014	4/30/2015
Kamilar, J.	AZCOM	Anatomy	The Evolution of Hair and Fur: Proximate and Ultimate Mechanisms Shaping Primate Pelage Variation	\$57,337	NSF	3/1/2014	2/28/2017
Kamilar, J.	AZCOM	Anatomy	The Evolution of Primate Hair Morphology: A Comparative Approach	\$18,819	The Wenner-Gren Foundation	7/1/2013	6/30/2015
Kokjohn, T.	AZCOM	Microbiology & Immunology	App/A β /Tau Biochemistry in Transgenic Mice, Familial and Sporadic Alzheimer's Disease	\$20,000	NIH Subcontract with Banner Research Institute	5/10/2011	5/31/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

AZCOM (Continued)

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Valla, J.; Kaufman, J.; Jones, D.; Vallejo, J.; (co- submitted with Olsen, M. from CPG)	AZCOM	Biochemistry	Modes and Mechanisms for the Early Detection, Tracking and Treatment of Alzheimer's Disease and Associated Disorders	\$10,000	Arizona Department of Health Services through the Arizona Alzheimer's Research Center, Inc.	7/1/2013	6/30/2014
Worden, K.	AZCOM	Osteopathic Manipulative Medicine	Use and Effectiveness of Osteopathic Manipulative Medicine in the Clinical Setting	\$1,500	A.T. Still University/A.T. Research Institute	7/15/2013	6/14/2014

Total AZCOM Active Research Awards: \$181,454

AZCOPT: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Gaib, S.; Vasudevan, B.	AZCOPT	Optometry	Low Toric Soft Contact Lens Acceptance Study	\$17,412	Contamac, US Inc.	12/1/2012	12/31/2013
Harrison, W.	AZCOPT	Optometry	Multisite Fielding of CLAY SIGHT Tool to Active Red Eye Clinical Population: AKA CLAY Red Eye Lite	\$600	CLAY Study Group	10/1/2013	10/1/2015
Kozlowski, M.	AZCOPT	Optometry	Evaluation of Telomerase Activating Agents for Prevention and Treatment of Dry AMD	\$42,650	Portes Foundation and the Institute of Medicine Chicago	3/1/2014	12/31/2014
Kozlowski, M.	AZCOPT	Optometry	Antiproliferative Activity of a new Class of Peptides	\$72,523	Kalos Therapeutics	3/1/2014	1/1/2015
Zinkovich, J.; Blacker, A.; Vasudevan, B.; Schatz, S.	AZCOPT	Optometry	Optical Technology: Advanced Optical Technology Applications	\$20,000	American Optometric Foundation	1/1/2011	12/31/2013

Total AZCOPT Active Research Awards: \$153,185

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CCOM: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Heinking, K.; Henderson, K.	CCOM	Osteopathic Manipulative Medicine & Physiology	Improving Osteopathic Postdoctoral Training with Basic Science and Osteopathic Manipulative Medicine	\$5,000	American Association of Colleges of Osteopathic Medicine	7/1/2013	1/1/2015
Heinking, K.	CCOM	Osteopathic Manipulative Medicine	Use and Effectiveness of Osteopathic Manipulative Medicine in the Clinical Setting	\$1,500	A.T. Still University/A.T. Research Institute	5/20/2013	5/19/2014
Henderson, K.	CCOM	Physiology	Thyroid Hormone Deiodinases in the Pathogenesis and Treatment for Heart Failure	\$217,668	American Heart Association	8/1/2011	12/31/2013
Kopf, P.	CCOM	Pharmacology	The Role of 12-Lipoxygenase in Aldosterone Secretion	\$60,000	Pharmaceutical Research and Manufacturers of America Foundation	1/1/2013	12/31/2013
Murthy, A.	CCOM	Pathology	Mechanism(s) of CD8+T Cell-mediated <i>Chlamydia</i> - induced Reproductive Pathology	\$459,396	NIH-R15	7/1/2013	6/30/2016
Murthy, A.	CCOM	Pathology	Immunopathogenesis of <i>Chlamydia Pneumoniae</i> Mediated Atherosclerosis	\$214,500	American Heart Midwest Affiliate	7/1/2013	6/30/2016
Orr, C.	CCOM	Anatomy	Comparative Morphological Analysis of the Hand and Wrist in <i>Ardipithecus Ramidus</i> and Miocene Hominoids	\$52,899	NSF	9/1/2013	8/31/2016
Tiwari, V.	CCOM	Microbiology & Immunology	Structure-function Analysis of Zebrafish Encoded 3-OST Enzyme for HSV-1 Entry	\$363,742	NIH-R15	7/1/2011	12/31/2013

Total CCOM Active Research Awards: \$1,374,705

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CCP: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Gettig, J.	CCP	Pharmacy Practice	Community Pharmacy Residency Expansion Project	\$50,000	National Association of Chain Drug Stores Foundation	7/1/2013	6/30/2016
Gulati, A.	CCP	Pharmaceutical Sciences	Effect of Liraglutide on Permanent Middle Cerebral Artery Occlusion Stroke Model in Normal and Diabetic Rats	\$46,618	Novo Nordisk, Inc.	11/22/2010	Until Project Completion
Gulati, A.	CCP	Pharmaceutical Sciences	Effect of Liraglutide on Oxidative Stress and Apoptosis in the Brain of Rats with Focal Cerebral Ischemia	\$53,191	Novo Nordisk, Inc.	12/1/2012	Until Project Completion
Gulati, A.	CCP	Pharmaceutical Sciences	Mentor, Train and Assist Pediatric Critical Care Medicine & Neonatal-Perinatal Medicine Fellows in Scholarly Activity	\$81,000	Advocate Health and Hospitals Corporation	1/1/2013	12/31/2013
Gulati, A.	CCP	Pharmaceutical Sciences	MP4OX in Cerebral Ischemia	\$5,000	Sangart, Inc.	3/11/2013	3/10/2015
Gulati, A.	CCP	Pharmaceutical Sciences	Nanocarrier Formulation of ETB Receptor Agonist, IRL-1620 for the Treatment of Alzheimer's Disease	\$96,694	Alzheimer's Drug Discovery Foundation	8/1/2012	7/31/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Regulation of Blood Brain Barrier by Sphenopalatine Ganglion	\$72,926	Tian Medical, Inc.	2/3/2014	2/2/2016
Scheetz, M.	CCP	Pharmaceutical Sciences	Assessing Worldwide Antimicrobial Resistance Evaluation (AWARE) Surveillance Program 2014	\$1,430	JMI Laboratories	2/26/2014	1/31/2015
Scheetz, M.	CCP	Pharmacy Practice	Beyond Benchmarking: Evaluation of Carbapenem Utilization in a National Network	\$10,479	Cubist Pharmaceuticals Subcontract with Wayne State University	10/1/2013	9/30/2014

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CCP (Continued)

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Scheetz, M.	CCP	Pharmaceutical Sciences	Elucidation of an Informed Drug Dosing Scheme to Minimize Kidney Injury	\$458,764	NIH-R15	4/1/2014	3/31/2017
Scheetz, M.	CCP	Pharmacy Practice	Patient-Oriented Research on Hospital-Acquired Pathogens	\$36,682	NIH-K24 Subcontract with Northwestern University	7/1/2013	6/30/2018
Scheetz, M.	CCP	Pharmacy Practice	Quantifying the Magnitude of Clinical Virulence of KPC through Translational Study	\$10,000	Society of Infectious Disease	9/1/2011	Until Project Completion

Total CCP Active Research Awards: \$922,784

CDMA: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Rolf, D.	CDMA	Dental	Dental Education Grant and Clinical Trials Agreement	The Value of \$485,851	Hiossen, Inc.	12/15/2011	12/14/2016
Mitchell, J.	CDMA	Dental	Antibacterial Effects of Synthetic Bone Grafting Materials	\$4,410	Impladent, Ltd.	6/11/2014	12/31/2015

Total CDMA Active Research Awards: \$490,261

CHS: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Ciancio, M.	CHS	Biomedical Sciences	STEP-UP Program	\$500	NIH through the American Physiological Society	5/1/2014	8/31/2014
Farrell, K.	CHS	Behavioral Medicine	StrongGirls/StongBoys Bullying Psychoeducational & Prevention Program	\$18,000	Illinois Violence Prevention Authority	7/1/2013	6/30/2014

Total CHS Active Research Awards: \$18,500

OFFICE OF RESEARCH & SPONSORED PROGRAMS

CPG: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Dietrich, M.	CPG	Pharmacy Practice	Community Pharmacy Residency Expansion Project	\$50,000	National Association of Chain Drug Stores Foundation	7/1/2012	6/30/2015
Dietrich, M.	CPG	Pharmacy Practice	CPG Target Campus Grant	\$3,000	Target	1/1/2014	6/30/2014
Pogge, E.	CPG	Pharmacy Practice	A Pilot Program to Assess the Efficacy of Interprofessional Screening Events at a Retail Food Market	\$5,000	American Association of Colleges of Pharmacy	7/1/2013	5/1/2014

Total CPG Active Research Awards: \$58,000

ALL OTHER ACTIVE AWARDS DURING THE REPORTING PERIOD*

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Burns, S.	CHS	Nurse Anesthesia Program	Nurse Anesthetist Traineeships	\$36,246	Health Resources and Services Administration	7/1/2013	6/30/2014
Pearl, J.	CHS	Physician Assistant	Physician Assistant Training in Primary Care	\$933,703	Health Resources and Services Administration	8/1/2012	7/31/2017
Pogge, E. (Poole, N., 3rd Year Pharmacy Student)	CPG	Pharmacy Practice	Promoting Tobacco Cessation	\$2,000	Maricopa County Department of Public Health	7/1/2013	6/30/2014

Total Other Active Research Awards: \$971,949

***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.**

§The numbers in this report do not include a \$1,545,804 grant submitted by Gregory J. Gaus, Sr. Vice President and Chief Financial Officer, and Susan Brassfield, Senior Grant Specialist, that was awarded by the Illinois Board of Higher Education for Science Hall. MWU received these funds in fiscal year 2014.

TOTAL MWU ACTIVE AWARDS: \$4,170,838

PEER-REVIEWED PUBLICATIONS

AZCOM

Al-Nakkash L, Janjulia T, Peterson K, Lucy D, Wilson D, Peterson A, Prozialeck W & Broderick TL. (2014) Genistein and exercise do not improve cardiovascular risk factors in the ovariectomized rat. *Climacteric* 17 (2):136-147.

Al-Nakkash L, Martin JB, Cannon J, Bhakta A, Leung L & Broderick TL. (2014) A 2-month exposure to dietary genistein has sex-dependent effects on serum profile, cardiac protein expression, and aortic morphology in mice. *Nutrition and Dietary Supplements* 6:15-23.

Anestis SF, Webster TH, Kamilar JM, Fontenot B, Watts DO & Bradley BJ. (2014) AVPR1A variation in chimpanzees (*Pan troglodytes*): Population differences and association with behavioral style. *International Journal of Primatology* 35(1):305-324.

Ball M, Campbell H, Ezell K, Henley J, Standley P & Grow W. (2013) Antibody to MyoD or myogenin decreases acetylcholine receptor clustering in C2C12 myotube culture. *CellBio* 2(3):138-148.

Beaudrot L, Kamilar JM, Marshall AJ & Reed KE. (2014) African primate assemblages exhibit a latitudinal gradient in dispersal limitation. *International Journal of Primatology* April 24: epub ahead of print.

Broderick TL, Wang D, Jankowski M & Gutkowska J. (2013) Unexpected effects of voluntary exercise training on natriuretic peptide and receptor mRNA expression in the ob/ob mouse heart. *Regulatory Peptides* 188(10):52-59.

Carroll CC, O'Connor DT, Steinmeyer R, Del Mundo JD, McMullan DR, Whitt JA, Ramos JE & Gonzales RJ. (2013) The influence of acute resistance exercise on cyclooxygenase-1 and -2 activity and protein levels in human skeletal muscle. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology* 305(1):R24-R30.

Desai G, Zheng C, Geetha T, Mathews ST, White BD, Huggins KW, Zizza CA, Broderick TL & Babu JR. (2014) The Pancreas-Brain Axis: Insight into Disrupted Mechanisms Associating Type 2 Diabetes and Alzheimer's Disease. *Journal of Alzheimer's Disease* May 23: epub ahead of print.

Gardner JD & Nydam RL. (2013) Mesozoic and cenozoic lissamphibian and squamate assemblages of Laurasia — Introduction to the special issue. *Palaeobiodiversity and Palaeoenvironments* September 17: epub ahead of print.

Gonzalez F. (2014) Green tea extract induces apoptosis in the AGS gastric carcinoma cell line. *Natural Products Chemistry & Research* 2(3).

Gump BS, McMullan DR, Cauthon DJ, Whitt JA, Del Mundo JD, Letham T, Kim PJ, Friedlander GN, Pingel J, Landberg H & Carroll CC. (2013) Short-term acetaminophen consumption enhances the exercise-induced increase in Achilles peritendinous IL-6 in humans. *Journal of Applied Physiology* 115(6):929-936.

Hall MI & Walters LM. (2013) An alternate dissection approach to the female urogenital triangle. *Clinical Anatomy* July 3: epub ahead of print.

PEER-REVIEWED PUBLICATIONS**AZCOM (Continued)**

- Houssaye A, Lindgren J, Pellegrini R, Lee AH, Germain D & Polcyn MJ. (2013) Microanatomical and histological features in the long bones of mosasaurine mosasaurs (Reptilia, Squamata) – Implications for aquatic adaptation and growth rates. *Public Library of Science ONE* 8:e76741.
- Jacobs M, Nagaraj VJ, Mertz T, Selvam AP, Ngo T & Prasad S. (2013) An electrochemical sensor for the detection of antibiotic contaminants in water. *Analytical Methods* 5(17):4325-4329.
- Kamilar JM & Atkinson QD. (2014) Cultural assemblages show nested structure in humans and chimpanzees but not orangutans. *Proceedings of the National Academy of Sciences of the United States of America* 111 (1):111-115.
- Kamilar J & Beaudrot L. (2013) Understanding primate communities: Recent developments and future directions. *Evolutionary Anthropology* 22:174-185.
- Kamilar JM, Beaudrot L & Reed KE. (2014) The influences of species richness and climate on the phylogenetic structure of African haplorhine and strepsirrhine primate communities. *International Journal of Primatology* June 10:epub ahead of print.
- Lee AH & O'Connor PM. (2013) Bone histology confirms determinate growth and small body size in the noosaurid theropod *Masiakasaurus knopfleri*. *Journal of Vertebrate Paleontology* 33:865–876.
- Lofgren D, McKenna M, Honey J, Nydam R, Wheaton C, Yokote B, Henn L, Hanlon W, Manning S & McGee C. (2014) New records of eutherian mammals from the Goler formation (Tiffanian, Paleocene) of California and their biostratigraphic and paleobiogeographic implications. *American Museum Novitates* 3797:1-57.
- Ma LY, Wu C, Jin Y, Gao M, Li GH, Turner D, Shen JX, Zhang SJ, Narayanan V, Jentarra G & Wu J. (2014) Electrophysiological phenotypes of MeCP2 A140V mutant mouse model. *CNS Neuroscience & Therapeutics* 20(5):420-428.
- Nagaraj VJ, Jacobs M, Vattipalli KM, Annam VP & Prasad S. (2013) Nanochannel-based electrochemical sensor for the detection of pharmaceutical contaminants in water. *Environmental Science: Processes & Impacts* 16(1):135-140.
- Nydam R. (2013) Squamates from the Jurassic and Cretaceous of North America. *Palaeobiodiversity and Palaeoenvironments* 93(4):1-31.
- Nydam RL. (2013) Lizards and Snakes from the Cenomanian through Campanian of Southern Utah: Filling the Gap in the Fossil Record of Squamata from the Late Cretaceous of the Western Interior of North America. In A Titus & M Loewen (Eds.) *At the Top of the Grand Staircase: The Late Cretaceous of Southern Utah*. (pp.370-423). Bloomington, IN: Indiana University Press.
- Nydam RL, Chure DJ & Evans SE. (2013) *Schillerosaurus* gen. nov., a replacement name for the lizard genus *Schilleria* Evans and Chure, 1999 a junior homonym of *Schilleria* Dahl, 1907. *Zootaxa* 3736(1):99–100.

PEER-REVIEWED PUBLICATIONS**AZCOM (Continued)**

Nydam RL, Rowe TB & Cifelli RL. (2013) Lizards and snakes of the Terlingua Local Fauna (late Campanian), Aguja Formation, Texas, with comments on the distribution of paracontemporaneous squamates throughout the Western Interior of North America. *Journal of Vertebrate Paleontology* 33(5):1081-1099.

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Patel B, Ruff C, Simons E & Organ J. (2013) Humeral cross-sectional shape in suspensory primates and sloths. *The Anatomical Record* 296(4):545-546.

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Rege SD, Kumar S, Wilson DN, Tamura L, Geetha T, Mathews ST, Huggins KW, Broderick TL & Babu JR. (2013) Resveratrol protects the brain of obese mice from oxidative damage. *Oxidative Medicine and Cellular Longevity* 2013: Article 419092.

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Roher AE, Maarouf CL, Malek-Ahmadi M, Wilson J, Kokjohn TA, Dausgs ID, Whiteside CM, Kalback WM, Macias MP, Jacobson SA, Sabbagh MN, Ghetti B & Beach TG. (2013) Subjects harboring presenilin familial Alzheimer's disease mutations exhibit diverse white matter biochemistry alterations. *American Journal of Neurodegenerative Disease* 2(3):187-207.

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Vaughn CN, Iafrate JL, Henley JB, Stevenson EK, Shlifer IG & Jones TB. (2013) Cellular neuroinflammation in a lateral forceps compression model of spinal cord injury. *The Anatomical Record* 296(8):1229-1246.

Yang A, Goel H, Bryan M, Robertson R, Lim J, Islam S & Speicher MR. (2014) The Picmonic® Learning System: Enhancing memory retention of medical sciences, using an audiovisual mnemonic Web-based learning platform. *Advances in Medical Education and Practice* 5:125-132.

PEER-REVIEWED PUBLICATIONS**AZCOPT**

Caffery B, Chalmers RL, Marsden H, Nixon G, Watanabe R, Harrison W & Mitchell GL. (2014) Correlation of tear osmolarity and dry eye symptoms in convention attendees. *Optometry and Vision Science* 91(2):142-149.

Ozawa GY, Bearse MA, Harrison WW, Bronson-Castain KW, Schneck ME, Barez S & Adams AJ. (2014) Differences in neuroretinal function between adult males and females. *Optometry and Vision Science* 91(6):602-607.

CCOM

Andrew DW, Cochrane M, Schripsema JH, Ramsey KH, Dando SJ, O'Meara CP, Timms P & Beagley KW. (2013) The duration of *Chlamydia muridarum* genital tract infection and associated chronic pathological changes are reduced in IL-17 knockout mice but protection is not increased further by immunization. *Public Library of Science ONE* 8(9):e76664.

Ansurudeen I, Kopf PG, Gauthier KM, Bornstein SR, Cowley AW, Jr. & Campbell WB. (2013) Aldosterone secretagogues increase adrenal blood flow in male rats. *Endocrinology* October 29: epub ahead of print.

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Chotiyanta JS, DiNovo KM & McCulloch PF. (2013) Bilateral sectioning of the anterior ethmoidal nerves does not eliminate the diving response in voluntarily diving rats. *Physiological Reports* 1(6):1-11.

Couture O, Lombardi E, Davis K, Hays E & Chandar N. (2013) Gene expression profiles resulting from stable loss of p53 mirrors its role in tissue differentiation. *Public Library of Science ONE* 8(11):e82494.

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Dunn RH, Tocheri MW, Orr CM & Jungers WL. (2014) Ecological divergence and talar morphology in gorillas. *American Journal of Physical Anthropology* 153(4):526-541.

El Sayed KA, Foudah AI, Mayer AMS, Crider AM & Song D. (2013) Synthesis, microbial transformation, and pharmacological evaluation of 4,5-dihydronaphtho[2,1-b]furan-2-ones and related analogues. *MedChemComm* 4(9):1231-1238.

Evani SJ, Dallo SF, Murthy AK & Ramasubramanian AR. (2013) Shear stress enhances chemokine secretion from *Chlamydia pneumoniae*-infected monocytes. *Cellular and Molecular Bioengineering* 3(6):326-334.

Getz RK & Frait SA. (2014) Osteopathic education: The link between mission and accreditation. *International Journal of Osteopathic Medicine* 17(1):48-51.

PEER-REVIEWED PUBLICATIONS

CCOM (Continued)

Graneto J & Damm T. (2013) Perception of noise by emergency department nurses. *Western Journal of Emergency Medicine* 14(5):547-550.

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- Penick Brock T, Assemi M, Corelli RL, El-Ibiary SY, Kavookjian J, Martin BA & Suchanek Hudmon K. (2014) A nontraditional faculty development initiative using a social media platform. *American Journal of Pharmaceutical Education* 78(5):Article 105.
- Pham J, Brownlow B & Elbayoumi T. (2013) Mitochondria-specific pro-apoptotic activity of genistein lipidic nanocarriers. *Molecular Pharmaceutics* Aug 30: epub ahead of print.
- Phan V, Walters J, Brownlow B & Elbayoumi T. (2013) Enhanced cytotoxicity of optimized liposomal genistein via specific induction of apoptosis in breast, ovarian and prostate carcinomas. *Journal of Drug Targeting* Oct 24: epub ahead of print.
- Pogge E. (2013) A team-based learning course on nutrition and lifestyle modification. *American Journal of Pharmaceutical Education* 77(5):103.

PEER-REVIEWED PUBLICATIONS**CPG (Continued)**

Rafie S & El-Ibiary SY. (2014) California pharmacy student perceptions of confidence and curricular education to provide direct pharmacy access to hormonal contraception. *Pharmacy Education* 14(1):31-36.

Rowles J, Morgan C, Burns SM & Merchant C. (2013) Faculty perceptions of critical thinking at a health sciences university. *Journal of the Scholarship of Teaching and Learning* 13(4):21-35.

Sclar DA. (2013) Bioequivalence evaluation of epinephrine autoinjectors with attention to rapid delivery. *Therapeutics and Clinical Risk Management* 9:149-151.

Sclar DA, Cohen LJ & Portland KB. (2013) Selegiline transdermal system: use pattern and adherence in patients with major depressive disorder [Internet]. *Primary Care Companion CNS Disorders* [cited Sept 30]. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3661319/>.

Sclar DA & Lieberman PL. (Guest Eds.) (2014) Partnership for anaphylaxis: Enhancing recognition, treatment, and outcomes. *American Journal of Medicine* 127(Suppl 1A):S1-S50.

Sclar DA & Lieberman PL. (2014) Anaphylaxis: Underdiagnosed, underreported, and undertreated. *American Journal of Medicine* 127(Suppl 1A):S1-S5.

Sclar DA, Robison LM, Oganov AM, Schmidt JM, Bowan KA & Castillo LV. (2013) Fidaxomicin in the treatment of *Clostridium difficile*-associated diarrhoea. *Clinical Drug Investigation* 33(3):229.

Truran S, Weissig V, Ramirez-Alvarado M, Franco DA, Burciu C, Georges J, Murarka S, Okoth WA, Schwab S, Hari P & Migrino RQ. (2013) Nanoliposomes protect against AL amyloid light chain protein-induced endothelial injury. *Journal of Liposome Research* Nov 15: epub ahead of print.

Tsu LV & Lee S. (2014) Use of ranolazine in the prevention and treatment of postoperative atrial fibrillation in patients undergoing cardiac surgery. *Annals of Pharmacotherapy* February 12: epub ahead of print.

Weissig V & Edeas M. (Guest Eds.) (2013) Strategies to target mitochondria and oxidative stress. Theme Issue for *Mitochondrion* 13(5):389-558.

INTRAMURAL FUNDING

AZCOM

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Alexander, L.	AZCOM	Physiology	The role of JAK2/STAT3 Pathway in Cyclic Stretch-and IL-6-induced IL-8 Production
Al-Nakkash, L.	AZCOM	Physiology	Effects of Genistein Diet on Male and Female Ob/Ob Mouse Jejunum
Broderick, T.	AZCOM	Physiology	The Effects of Acute Exercise on Carnitine Biosynthesis in Mice
Call, G.	AZCOM	Pharmacology	Determining the Location of Anesthetic Action in the <i>Drosophila Melanogaster</i> Nervous System and Finalization of the Blimp-1 Research
Carroll, C.	AZCOM	Physiology	Studies Evaluating the Mechanisms Regulating Tendon Extracellular Matrix Adaptations in Response to Exercise, Aging and Diabetes
Georgi, J.	AZCOM	Anatomy	Rehabilitation of an <i>Alligator mississippiensis</i> and Mechanism for Perturbation of Locomotion
Gonzalez, F.	AZCOM	Microbiology & Immunology	Role of Proteolysis in the Pathogenesis of <i>Candida albicans</i>
Grossman, A.	AZCOM	Anatomy	The Miocene Mammalian Fauna of Israel: Determining Processes Leading to the Distribution of Modern Mammals in the Old World
Grow, W.	AZCOM	Anatomy	Environmental Estrogens and Skeletal Muscle Differentiation
Hall, M.	AZCOM	Physiology	Comparative Tissue Glycation in Birds
Heesy, C.	AZCOM	Anatomy	Computer Reconstruction of Regional Brain Volumes in Squamates
Katzif, S.	AZCOM	Microbiology & Immunology	1) SarA Regulates the Cold Shock Gene <i>cspA</i> of <i>Staphylococcus aureus</i> at Both the Transcriptional and Posttranscriptional level, 2) The Effect of the Cold Shock Gene <i>cspA</i> on Biofilm Production by <i>Staphylococcus aureus</i> Varies in MRSA and MSSA strains, 3) The Peroxidase Regulator Protein PerR Regulates the Activity of the Cold Shock gene <i>cspA</i> of <i>Staphylococcus aureus</i>
Kaufman, J.	AZCOM	Anatomy	Combined CLARITY/MRI Mapping of Neuropathology in a Mouse Model of Neurodegenerative Disease
Lawson, K.	AZCOM	Biochemistry	The Role of Aberrant P-Cadherin Expression in Oral Tumor Development
Leyva, K.	AZCOM	Microbiology & Immunology	Collective Cell Migration in Zebrafish Keratocytes: Role of Calcium and Chemokines in Motility
Nydam, R.	AZCOM	Anatomy	Investigation into the Origins of Squamates in the Triassic-sampling the Microvertebrate Fauna of Petrified Forest National Park
Potter, P.	AZCOM	Pharmacology	Second Messenger Changes in Alzheimer's Disease
Tarr, E.	AZCOM	Microbiology & Immunology	Bacterial Expression of Nematode and Tardigrade Defensins

INTRAMURAL FUNDING

AZCOM (Continued)

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Townsend, K. E.	AZCOM	Anatomy	Excavation and Screen Washing in the Coyote Basin, Uinta Formation, Uinta Basin, Utah
Vallejo-Elias, J.	AZCOM	Physiology	Role of Caveolins and Sphingolipids in the Mechanism of Insulin Resistance

Total AZCOM Intramural Funding: \$85,657

AZCOPT

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Handford, P.	AZCOPT	Optometry	Use of a Modified CISS to Assess Symptoms in Patients with Accommodative Dysfunction
Harrison, W.; Hobbs, B.; Osmotherly, K.	AZCOPT	Optometry	Sensitivity and Specificity of Red on White Visual Fields Versus White on White Visual Fields in Dilated Patients and Patients with Eye Disease
Kozlowski, M.	AZCOPT	Optometry	Evaluation of Telomerase Enhancing Agents for the Treatment of Dry AMD
Putman, N.; Harrison, W.	AZCOPT	Optometry	The Role of Natural Ocular Aberrations in Determining Daily Soft Contact Lens Preference and Visual Performance
Vasudevan, B.	AZCOPT	Optometry	Interactions of Optical Aberrations and Defocus Following LASIK
Yevseyenkov, V.; Harrison, W.	AZCOPT	Optometry	Estrogen Levels and Relationship to mfERG Data

Total AZCOPT Intramural Funding: \$22,243

CCOM

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Chandar, N.	CCOM	Biochemistry	P53 Gene in Cancer
Edwards, J.	CCOM	Pharmacology	Mechanisms of Cadmium-Induced Hyperglycemia and Hypoinsulinemia
Goral, J.	CCOM	Anatomy	Effect of Alcohol on Neuroinflammation
Green, J.	CCOM	Biochemistry	Folic Acid Metabolism

INTRAMURAL FUNDING

CCOM (Continued)

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
LePard, K.	CCOM	Physiology	Effect of Tegaserod on Gastrointestinal Motility in Obese Mouse Model of Type 2 Diabetes Mellitus
Lynch, S.	CCOM	Biochemistry	Protection of HDL From Oxidative Modification by Vitamin C
Mayer, A.	CCOM	Pharmacology	Neuroinflammation, Microglia and Natural Products
McCulloch, P.	CCOM	Physiology	Brainstem Cardiorespiratory Control Mechanisms
Peuler, J.	CCOM	Pharmacology	Studies in Smooth Muscle: 1) Interactive Effects of Metformin and Bethanechol on Rat Esophageal Sphincter Contractility, 2) Comparative Effects of all Fibrate Drugs on Contractility of the Rat Tail Artery
Plotkin, B.	CCOM	Microbiology & Immunology	Effect of Insulin and Other Hormones on Bacterial Virulence
Ramsey, K.	CCOM	Microbiology & Immunology	Using <i>Chlamydial</i> Variants to Determine Virulence in the Mouse
Singleton, M.	CCOM	Anatomy	Pilot Project: Influence of Cranial Size on Morphological Integration in Cercopithecine Primates
Van Winkle, L.	CCOM	Biochemistry	A Study of Certain Biochemicals and Related Biochemical Events Leading to Implantation of Mouse Blastocysts

Total CCOM Intramural Funding: \$55,636

CCP

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Gilchrist, A.	CCP	Pharmaceutical Sciences	Differentiating the Roles of CCR1 versus CCR5 in Triple Negative Breast Cancer
Griffin, B.	CCP	Pharmacy Practice	Development of a Pharmacist-Managed Smoking Cessation Curriculum for Implementation in Ambulatory Care
Joshi, M.	CCP	Pharmaceutical Sciences	Pharmacokinetic Evaluation of Long Circulating Liposomal Nanocarriers Loaded with of ET _B Receptor Agonist, IRL-1620
Mui, S.	CCP	Pharmaceutical Sciences	Utilization of a Point-of-Care Device in Identifying Patients with Pre-diabetes and Diabetes within the Chinese American Immigrant Community

OFFICE OF RESEARCH & SPONSORED PROGRAMS

INTRAMURAL FUNDING

CCP (Continued)

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Quiñones-Boex, A.	CCP	Pharmacy Practice	Revisiting the Characterization of Part-time Pharmacists
Phillips, J.	CCP	Pharmacy Practice	Fourth Year Pharmacy Students Use of Facebook to Learn During APPE Rotations
Reniguntala, M.	CCP	Pharmaceutical Sciences	Design and Synthesis of Novel Unsymmetrical Curcumin Analogues as Neuroprotective Agents
Venkatesan, N.	CCP	Pharmaceutical Sciences	Study on Graviola Fruit Extract for Potential Anti-inflammatory Activity

Total CCP Intramural Funding: \$35,230

CDMI

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Chandar, N. (CDMI Student: Kan Tsunoda)	CDMI Joint Appointment	Dental	The Regulation of MicroRNA 26a by Menin in Osteoblasts
Chandar, N. (CDMI Student: Nicholas Wyatt)	CDMI Joint Appointment	Dental	Understanding the Role and Regulation of Menin in Osteoblasts
Murthy, A. (CDMI Student: Kavita Patel)	CDMI Joint Appointment	Dental	The Role of CD8 T cells and TNF-alpha in <i>Chlamydia</i> -induced Reactive Arthritis
Orr, C. (CDMI Student: Timothy Kamp)	CDMI Joint Appointment	Dental	3D Printed Dentistry-Evaluating Dimensional Accuracy of Mandibles Models Produced Using an Affordable, Commercially Available 3D Printer
Plotkin, B. (CDMI Student: Thomas Hatakeyama)	CDMI Joint Appointment	Dental	Effect of Anaerobiasis on Polymicrobial Adherence and Infectivity of Agents Associated with Oral Sexually Transmitted Infections

Total CDMI Intramural Funding: \$26,050

CHS

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Buhlman, L.	CHS	Biomedical Sciences	Assessing the Mechanism of Nicotinic Protection in Parkin Loss-of-Function Heterozygous <i>Drosophila Melanogaster</i>
Chapman, A.	CHS	Physician Assistant Studies	Early Career Burnout in Physician Assistants: A National Survey

OFFICE OF RESEARCH & SPONSORED PROGRAMS

INTRAMURAL FUNDING

CHS

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Chavez, P.	CHS	Biomedical Sciences	Chemo Sensitization of Multi-drug Resistant Ovarian/Uterine Cancer Cells by Genistein
Ciancio, M.	CHS	Biomedical Sciences	Prevention of High Fat Diet-induced Obesity and Metabolic Syndrome by Voluntary Exercise
del Toro, C.	CHS	Speech Language Pathology	Semantic Priming of Picture Naming in Adults with Aphasia
Evans, C.	CHS	Physical Therapy	Measuring Post-rehabilitation Community Mobility Using Global Positioning System Technology
Fay, M.; Noronha, S.	CHS	Biomedical Sciences and Physician Assistant Studies	Evaluation of Cullin-5 and HE2/c-ErB2 Protein Expression in Human Breast Cancer
Gandhi, S.	CHS	Clinical Psychology	Attitudes Toward Prescription Authority in Arizona
Gasiorowski, J.	CHS	Biomedical Sciences	Identification of Cellular Topography Sensor Proteins
Getch, S.	CHS	Behavioral Medicine	Bright Light Therapy for Postpartum Depression: A Pilot Treatment Trial
Hull, E.	CHS	Biomedical Sciences	Formation & Closure of Holes in Collectively Migrating Keratocyte Sheets
Jaskolski, J.	CHS	Speech Language Pathology	Effects of Phonological Awareness Training on Early Childhood Educator's Knowledge, Implementation and Student Outcomes
Jones, C.	CHS	Biomedical Sciences	Modulation of the Renin-angiotensin System in Spinal Cord Injury
Krumdick, N.	CHS	Behavioral Medicine	Perceived Health Threats, Right-wing Authoritarianism, and Attitudes Toward Healthcare Policy: A Pilot Study
Prodoehl, J.	CHS	Physical Therapy	Effect of Head Posture on 3D TMJ Motion
William, C.	CHS	Nurse Anesthesia	How Useful is Video Scribing in Learning Mathematical Concepts in Anesthesia?

Total CHS Intramural Funding: \$72,458

INTRAMURAL FUNDING

CPG

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Elbayoumi, T.	CPG	Pharmaceutical Sciences	Mitochondria-targeted Genistein Lipidic Nanocarriers
El-Ibiary, S.	CPG	Pharmacy Practice	Evaluation of a Women’s Reproductive Health Elective Course in a Pharmacy School Curriculum and its Influence on Pharmacy Students’ Knowledge and Confidence in Providing Reproductive Health Pharmacy Services
Gurney, M.	CPG	Pharmacy Practice	Prescription Drug Monitoring Program: Attitudes, Beliefs, and Usage by Pharmacists and Physicians
Jordan, M.; Elbayoumi, T.	CPG	Pharmaceutical Sciences	Novel Chia (<i>Salvia hispanica</i>) Oil-based Nanocarrier for Enhanced Delivery and Efficacy of the Anti-melanoma Drug Dacarbazine
Olsen, M.	CPG	Pharmaceutical Sciences	Novel Epigenetic Agents for the Treatment of Epilepsy
Rupp, M.	CPG	Pharmacy Practice	Improving Cultural Competence: What Elder Chinese-Americans Want From Their Pharmacist

Total CPG Intramural Funding: \$39,992

**TOTAL MWU INTRAMURAL FUNDING AWARDED BY ALL COLLEGES
IN THIS REPORT PERIOD: \$337,266**

FY 14, QUARTER #4 REPORT

UNIVERSITY-FUNDED RESEARCH SUPPORT POSITIONS BY CAMPUS*

MWU "HARD MONEY" RESEARCH SUPPORT POSITIONS		
CAMPUS	FTE	TOTAL COMPENSATION FOR REPORT PERIOD
DOWNERS GROVE, IL	22.4	\$1,364,180
GLENDALE, AZ	21.0	\$1,112,304
TOTAL	43.4	\$2,476,484

***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 FISCAL YEAR 2014 IS \$2,476,484

UNIVERSITY-FUNDED CAPITAL RESEARCH EQUIPMENT

Another manner in which MWU supports research is thru consideration and funding of capital research equipment requests submitted by faculty. From FY 2001 thru FY 2013, MWU has spent more than \$5,936,000 on capital equipment purchases for research purposes, including \$809,727 in FY 2013.

UNIVERSITY-FUNDED PER DIEM CHARGES

A way in which MWU supports research is through the waiving of animal per diem charges. Animal per diem charges that were waived across both campuses in this report period for FY 14 total \$125,192.

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 the grant funds are exhausted the additional pay is eliminated. Over the twelve fiscal years spanning from 2001 to 2013, MWU paid out \$858,786 as “Additional Compensation” to faculty Principal Investigators on grants. This payment is available to all faculty who receive funding for their research, subject to the ORSP’s *Recaptured Salaries on Grants* policy.

THE ORSP WEBSITE CAN BE FOUND AT

<http://www.midwestern.edu/ORSP.html>