

# Research Annual Report

**REPORT PERIOD**  
7/1/12-6/30/13

**REPORT CONTENTS:**

- Proposals Submitted
- New Grants Funded
- Active Awards
- Publications
- Intramural Funding
- Research Technicians
- Recaptured Salary



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



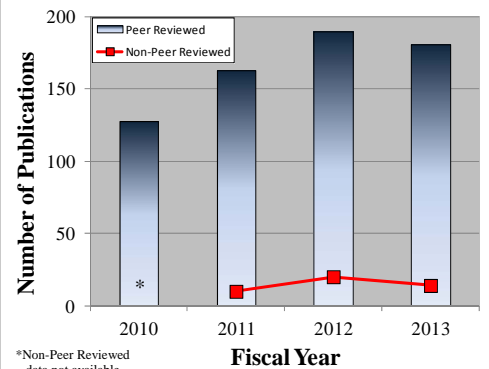
**MIDWESTERN  
UNIVERSITY**

*Educating Tomorrow's  
Healthcare Team*

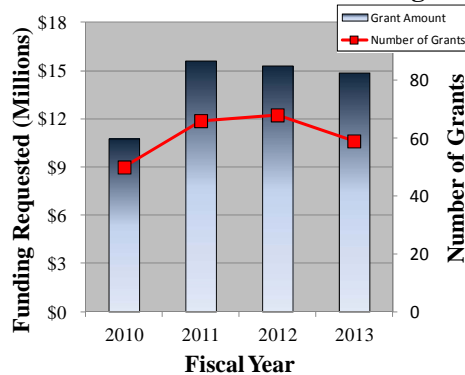
Midwestern University's (MWU's) *Research Annual Report* demonstrates research achievements of which members of the MWU community should be proud. As you will see inside this report, the total of all active extramural awards at MWU during this year has exceeded \$3.9 million. The front page graphs show some historical data over the last four 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

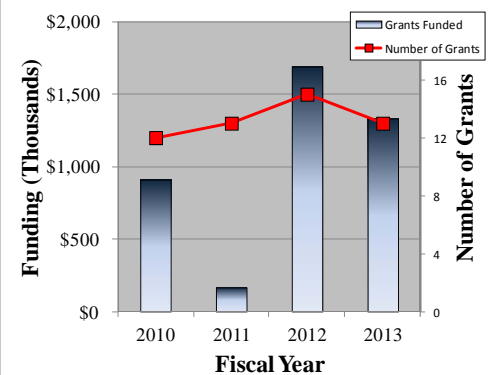
**MWU Faculty Publications**



**Grants Submitted for Funding**

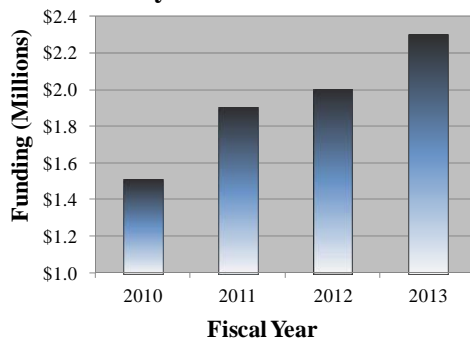


**New Grants Funded**

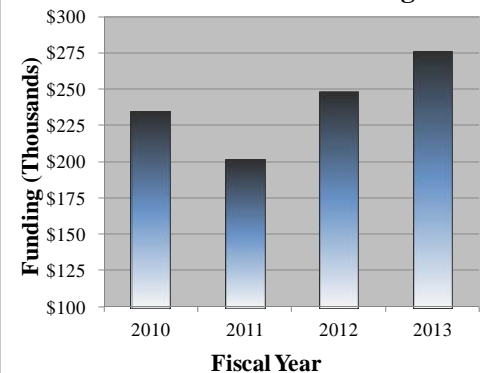


## Historical Research Support Data

**MWU Support for Hard Money Research Associates**



**MWU Intramural Funding**



**AZCOM: SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Alexander, L.	AZCOM	Physiology	Soluble Epoxide Hydrolase Inhibition and Renoprotection	06/16/2013	\$555,265	NIH-R03	4/1/2014
Al-Nakkash, L.	AZCOM	Physiology	Effects of Genistein on <i>In Vivo</i> and <i>In Vitro</i> Cardiac and Vascular Function in a VCD-treated Model for Menopause	1/29/2013	\$140,000	American Heart Association	7/1/2013
Al-Nakkash, L.	AZCOM	Physiology	Understanding Genestein's Role in Reducing Obesity and Intestinal Dysfunction in the ob/ob Mouse Model of Type II Diabetes	3/15/2013	\$25,000	United Soybean Board	4/15/2013
Al-Nakkash, L.	AZCOM	Physiology	Can Genestein Protect Cardiac Function in a Novel Model of Menopause?	4/26/2013	\$25,000	Sarver Heart Center	7/1/2013
Al-Nakkash, L.	AZCOM	Physiology	Improving Intestinal Function in the ob/ob Mouse, a Model of Type II Diabetes	5/31/2013	\$40,000	Diabetes Action Research and Education Foundation	1/1/2014
Carlson, C.G.	AZCOM	Physiology	Downstream Consequences of ActRIIB Inhibition in Dystrophic (mdx) Muscle	2/25/2013	\$447,000	NIH-R15	9/1/2013
Carroll, C.	AZCOM	Physiology	Mechanisms Limiting Exercise Adaptations in Aging Human Tendon: An <i>In Vivo</i> Study	10/5/2012	\$1,665,470	NIH-RO1	7/1/2013
Carroll, C.	AZCOM	Physiology	Mechanisms of Pain Reduction in Vestibulodynia Patients Using Estradiol Cream	4/15/2013	\$28,181	National Vulvodynia Association	6/1/2013
Grossman, A.	AZCOM	Anatomy	Collaborative Research: New Paleontological Investigation of the Early Miocene Site of Loperot, South Turkana, Kenya	12/7/2012	\$153,820	NSF	8/1/2013
Hernandez, J.	AZCOM	Biochemistry	NF Cereals – Engineering N <sub>2</sub> Fixation in Mitochondria	3/1/2013	\$14,000	Bill & Melinda Gates Foundation subcontract with the Universidad Politecnica of Madrid, Spain	4/1/2013

**AZCOM (Continued)**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Jentarra, G.	AZCOM	Biochemistry	Neuron Structure and Plasticity in Young-adult APOE4 Carriers and Non-carriers	2/15/2013	\$44,700	Arizona Alzheimer's Consortium	7/1/2013
Kamilar, J.	AZCOM	Anatomy	The Evolution of Primate Hair Morphology: A Comparative Approach	7/15/2012	\$19,645	Leakey Foundation	1/1/2013
Kamilar, J.	AZCOM	Anatomy	Pattern and Process in Extant and Extinct Mammal Communities: A Macroecological Approach	4/1/2013	\$0 Effort will be Pro bono	NSF Collaboration with Arizona State University	2/1/2014
Kamilar, J.	AZCOM	Anatomy	The Evolution of Primate Hair Morphology: A Comparative Approach	11/1/2012	\$23,279	Wenner Gren Foundation	7/1/2013
Kaufman, J.	AZCOM	Anatomy	Imaging of Sports-Induced Neuropathology: MRI Correlates of SCI Severity	5/14/2013	\$40,228	NIH-R03 Subcontract with St. Joseph's Hospital & Medical Center	10/1/2013
Lee, A., Jentarra, G., Simons, E., Valla, J. & co-submitted with Buhlman, L. from CHS	AZCOM	Anatomy Biochemistry	MRI: Acquisition of a Core Confocal Laser Scanning Microscope for Research at Midwestern University, Glendale	2/21/2013	\$374,800	NSF	9/1/2013
Smith, H.	AZCOM	Anatomy	Evaluating Patterns of Ontogenetic Shape Variation in Catarrhine Primates	1/5/2013	\$18,604	Leakey Foundation	7/1/2013
Tarr, E.	AZCOM	Microbiology & Immunology	Dimensions: Tardigrade Defensins	5/6/2013	\$323,967	NSF	9/1/2013
Tarr, E.	AZCOM	Microbiology & Immunology	Free-living Models of Parasitic Protozoa	6/16/2013	\$111,750	NIH-R21	7/1/2014
Townsend, K.	AZCOM	Anatomy	Collaborative Research: Earth-Life Transitions, After the Bridgerian Crash-Mammalian Paleocommunities and Paleocologies During the Middle Eocene of North America	2/22/2013	\$254,750	NSF	7/1/2013

**AZCOM (Continued)**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Valla, J.	AZCOM	Biochemistry	Menopause and Hormone Therapy: Learning, Memory, and Brain Sites of Action	6/16/2013	\$75,206	NIH-R21 Subcontract to Arizona State University	4/1/2014
Vallejo, J.	AZCOM	Physiology	Role of Caveolins in the Mechanisms Underlying Skeletal Muscle Insulin Resistance Induced by Fatty Acids and Tumor Necrosis Factor- $\alpha$	1/15/2013	\$99,995	American Diabetes Association	7/1/2013
Vallejo, J.	AZCOM	Physiology	Role of Caveolins and Sphingolipids in the Mechanism of Insulin Resistance	6/16/2013	\$444,648	NIH-R03	7/1/2014

**Total of AZCOM Submitted Proposals: \$4,925,308**

**AZCOPT: SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Gaib, S. & Vasudevan, B.	AZCOPT	Optometry	Low Toric Soft Contact Lens Acceptance Study	10/22/2012	\$17,412	Contamac US, Inc.	12/1/2012
Kozlowski, M.	AZCOPT	Optometry	Anti-cell Proliferation Motif of Atrial Natriuretic Peptides as Anticancer Agents	8/5/2012	\$437,942	NIH-STTR Subcontract with Kalos Therapeutics, Inc.	4/1/2013
Kozlowski, M.	AZCOPT	Optometry	Retinal Pigment Epithelium (RPE) Cell Senescence <i>In Situ</i> and its Relationship to Age-related Macular Degeneration (AMD)	2/1/2013	\$20,000	Fight for Sight	7/1/2013
Sicks, L.	AZCOPT	Optometry	Teaching GP Contact Lens Concepts through DVD Modules	7/1/2012	\$2,380	Association of Schools and Colleges of Optometry	8/1/2012

**Total of AZCOPT Submitted Proposals: \$477,734**

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	2/25/2013	\$446,808	NIH-R15	9/1/2013
Edwards, J.	CCOM	Pharmacology	Cellular Mechanisms of Cadmium-induced Hyperglycemia and Hypoinsulinemia	10/5/2012	\$1,490,000	NIH-RO1	7/1/2013
Edwards, J.	CCOM	Pharmacology	Carcinogenic Effects of Cadmium in the Pancreas	1/25/2013	\$50,000	National Pancreas Foundation	8/1/2013
Edwards, J.	CCOM	Pharmacology	Effect of Cadmium on Beta Cell Zinc Trafficking, Insulin Maturation and ER Stress	6/16/2013	\$18,154	NIH-R21 Subcontract to Northwestern University	4/1/2014
Heinking, K.	CCOM	Osteopathic Manipulative Medicine & Physiology	Use and Effectiveness of Osteopathic Manipulative Medicine in the Clinical Setting	5/20/2013	\$1,500	A.T. Still University/ A.T. Still Research Institute	5/20/2013
Heinking, K. & Henderson, K.	CCOM	Osteopathic Manipulative Medicine & Physiology	Improving Osteopathic Postdoctoral Training with Basic Science and Osteopathic Manipulative Medicine Integration	2/28/2013	\$5,000	American Association of Colleges of Osteopathic Medicine	7/1/2013
Kopf, P.	CCOM	Pharmacology	The Role of 12-Lipoxygenase in Aldosterone Secretion	9/1/2012	\$60,000	PhRMA Foundation	1/1/2013
La Salle, S.	CCOM	Biochemistry	SPATA22 Function in Meiosis and Fertility	10/25/2012	\$444,800	NIH-R15	7/1/2013
Murthy, A.	CCOM	Pathology	Mechanism(s) of CD8 <sup>+</sup> T Cell -mediated <i>Chlamydia</i> -induced Reproductive Pathology	10/25/2012	\$459,396	NIH-R15	7/1/2013
Murthy, A.	CCOM	Pathology	Immunopathogenesis of <i>Chlamydia Pneumoniae</i> Mediated Atherosclerosis	1/28/2013	\$214,500	American Heart Midwest Affiliate	7/1/2013
Orr, C.	CCOM	Anatomy	Comparative Morphological Analysis of the Hand and Wrist in <i>Ardipithecus Ramidus</i> and Miocene Hominoids	12/7/2012	\$110,247	NSF	9/1/2013
Peuler, J.	CCOM	Pharmacology	Novel Interactions of Viagra with Vasorelaxations of Antidiabetic Agents	1/19/2013	\$142,924	American Heart Midwest Affiliate	7/1/2013



**CCOM (Continued)**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Plotkin, B.	CCOM	Microbiology & Immunology	Otitis Media-associated Biofilms: Activity of Novel Drugs on Moraxella Catarrhalis	12/14/2012	\$25,000	Hearing Health Foundation	7/1/2013
Ramsey, K.	CCOM	Microbiology & Immunology	Molecular Dissection of Plasmid-based Virulence in <i>Chlamydia</i>	10/5/2012	\$2,297,080	NIH-R01	7/1/2013

**Total of CCOM Submitted Proposals: \$5,765,409**

**CCP: SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Gilchrist, A.	CCP	Pharmaceutical Sciences	Exploring FFAR2 and FFAR3 Ligand Biased G Protein Dependent/ Independent Signaling	6/25/2013	\$446,647	NIH-R15	4/1/2014
Gulati, A.	CCP	Pharmaceutical Sciences	Resuscitative Effect of Centhaquin in Hemorrhagic Shock	10/25/2012	\$447,000	NIH-R15	7/1/2013
Gulati, A.	CCP	Pharmaceutical Sciences	MP4OX in Cerebral Ischemia	3/1/2013	\$5,000	Sangart, Inc.	3/1/2013
Joshi, M.	CCP	Pharmaceutical Sciences	Targeted Delivery of ETB Receptor Agonist, IRL-1620, in the Treatment of Cerebral Ischemia	9/17/2012	\$10,000	American Association of Colleges Pharmacy	1/1/2013
Lempicki, K.	CCP	Pharmacy Practice	Community Health Fair	8/3/2012	\$5,000	National Association of Chain Drug Stores Foundation	9/1/2012
Scheetz, M.	CCP	Pharmacy Practice	Patient Oriented Research on Hospital Acquired Pathogens	3/12/2013	\$36,580	NIH-K24 Subcontract with Northwestern University	4/1/2014
Scheetz, M.	CCP	Pharmacy Practice	Elucidation of an Informed Drug Dosing Scheme to Minimize Kidney Injury	6/25/2013	\$437,977	NIH-R15	4/1/2014
Venkatesan, N.	CCP	Pharmaceutical Sciences	Development of Delayed Release Dosage Form Resistant to Alcohol Induced Dose Dumping	9/17/2012	\$10,000	American Association of Colleges of Pharmacy	1/1/2013

**Total of CCP Submitted Proposals: \$1,398,204**

**CHS: SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Cahill, S.	CHS	Occupational Therapy	Preparing Occupational Therapy Scholars to Work in School Mental Health	3/18/2013	\$1,194,902	U.S. Department of Education	11/1/2013
Jaskolski, J.	CHS	Speech Language Pathology	One SLP- Many Languages: A Resource Guide for SLPs	5/10/2013	\$11,078	American Speech-Language-Hearing Association	9/1/2013
Kristjansdottir, K.	CHS	Biomedical Sciences	The role of NPM1 and its Interactome in Neuroblastoma	2/25/2013	\$100,000	American Cancer Society, Illinois Division	6/1/2013

**Total of CHS Submitted Proposals \$1,305,980**

**CPG: SUBMITTED PROPOSALS**

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Abrams, J.	CPG	Pharmacy Practice	American Association of Colleges of Pharmacy Student Community Engaged Service Awards	8/20/2012	\$18,500	American Association of Colleges of Pharmacy	11/15/2012
Jordan, M.	CPG	Pharmaceutical Sciences	Novel Chia (Salvia hispanica) Oil-containing Lipidic Nanocarrier Adjuvants for Enhanced Delivery and Efficacy of the Anti-cancer Soy Flavonoid Genistein	1/13/2013	\$5,000	Herb Society of America, Inc.	5/1/2013
Olsen, M.	CPG	Pharmaceutical Sciences	Novel, Selective Modulators of Adaptation to Hypoxia	8/10/2012	\$798,279	NIH-RO1 Subcontract with Burke-Cornell Medical Research Institute	4/1/2013
Pogge, E.	CPG	Pharmacy Practice	A Pilot Program to Assess the Efficacy of Interprofessional Screening Events at a Retail Food Market	3/29/2013	\$4,535	American Association of Colleges of Pharmacy	6/1/2013

CPG (Continued)

Investigator/s	College	Department	Proposal Title	Date Submitted	Total Budget	Agency	Start Date
Weissig, V.	CPG	Pharmaceutical Sciences	Nanoliposome Based Treatment of Amyloid (AL) Toxicity	10/5/2012	\$109,800	NIH-RO1 Subcontract with Phoenix VA	8/1/2013
Weissig, V.	CPG	Pharmaceutical Sciences	MitoBoost—Protecting the Future: Directed Mitochondrial Therapies to Prevent Metabolic Syndrome Trans-generational Bioenergetic Deficits	10/1/2012	Value of \$55,363	European Union	1/1/2013
Weissig, V.	CPG	Pharmaceutical Sciences	Nanoliposome Treatment and Inflammatory Mechanism of Vascular Dysfunction in Alzheimer's Disease	10/12/2012	\$38,391	American Health Assistance Foundation Subcontract with Phoenix VA	7/1/2013

**Total of CPG Submitted Proposals: \$1,029,868**

**MWU SUBMITTED 59 PROPOSALS FROM ALL COLLEGES FOR FISCAL YEAR 2013: \$14,902,503**



MWU NEW EXTRAMURAL GRANTS FUNDED

**AZCOM**

**Jose Hernandez, Ph.D., Department of Biochemistry** received a subaward from the Universidad Politecnica of Madrid, Spain on a grant funded by the Bill & Melinda Gates Foundation to support the project “NF Cereals - Engineering N<sub>2</sub> Fixation in Mitochondria” totaling \$14,000.

**Total New Extramural Funding Awarded to AZCOM: \$14,000**

**AZCOPT**

**Lindsay A. Sicks, O.D., Department of Optometry** received a letter of award from the Association of Schools and Colleges of Optometry along with The Vision Care Institute, LLC, an affiliate of Johnson & Johnson for her project “Teaching GP Contact Lenses Concepts Through DVD Modules” totaling \$2,380.

**Sara Gaib, O.D., FAAO and Balamurali Vasudevan, Ph.D., Department of Optometry** have received funding from Contamac US, Inc. to support their project “Low Toric Soft Contact Lens Acceptance Study” totaling \$17,412.

**Total New Extramural Funding Awarded to AZCOPT: \$19,792**

**CCOM**

**Kurt Heinking, D.O., FAAO, 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.

**Phillip Kopf, Ph.D., Department of Pharmacology** received a Research Starter Grant in Pharmacology/ Toxicology from the Pharmaceutical Research and Manufacturers of America Foundation for his project “The Role of 12-Lipoxygenase in Aldosterone Secretion” totaling \$60,000.

**Total New Extramural Funding Awarded to CCOM: \$61,500**

**CCP**

**Anil Gulati, M.D., Ph.D., Associate Dean** received a grant agreement from the Alzheimer’s Drug Discovery Foundation in the amount of \$96,694 to support his project “Nanocarrier formulation of ETB receptor agonist, IRL-1620, for the treatment of Alzheimer’s disease.”

**MWU NEW EXTRAMURAL GRANTS FUNDED**

**CCP (Continued)**

**Anil Gulati, M.D., Ph.D., Associate Dean** received an Investigator-Initiated Research Trial Agreement from Novo Nordisk, Inc. in the amount of \$53,191 to support his project “Effect of Liraglutide on oxidative stress and apoptosis in the brain of rats with focal cerebral ischemia.”

**Anil Gulati, M.D., Ph.D., Associate Dean** received an agreement from Sangart, Inc. in the amount of \$5,000 to support his project MP4OX in Cerebral Ischemia.

**Anil Gulati, M.D., Ph.D., Associate Dean** received an agreement from Advocate Health and Hospitals Corporation to mentor, train and assist Pediatric Critical Care Medicine and Neonatal-Perinatal Medicine fellows in scholarly activity totaling \$81,000.

**Total New Extramural Funding Awarded to CCP: \$235,885**

**CHS**

**Danielle Kempton, M.M.S., PA-C, Physician Assistant Program** has received notice of award from the U.S. Department of Health Resources and Services Administration to support her project “Physician Assistant Training in Primary Care” totaling \$933,703.

**Karen Farrell, PsyD, Department of Behavioral Medicine** has received a grant agreement from the Illinois Violence Prevention Authority in the amount of \$15,000 for her project “StrongGirls/StrongBoys.”

**Mae Ciancio, Ph.D., Biomedical Sciences Program** has received funding from the National Institutes of Health through the University of California, San Francisco Step-Up program in the amount of \$500 for research expenses for her mentorship participation.

**Total New Extramural Funding Awarded to CHS: \$949,203**

**CPG**

**Michael Dietrich, Pharm.D., BCPS, Department of Pharmacy Practice** has received notice of award from the National Association of Chain Drug Stores Foundation to support his project “Community Pharmacy Residency Expansion Project” totaling \$50,000.

**Total New Extramural Funding Awarded to CPG: \$50,000**

**TOTAL MWU NEW EXTRAMURAL FUNDING AWARDED TO ALL COLLEGES  
IN THIS REPORT PERIOD: \$1,330,380**

**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	Understanding the Mechanism for Genistein-Mediated Chloride Secretion	\$10,000	Soy Health Research Program	4/15/2011	Until Project Completion
Broderick, T.	AZCOM	Physiology	The Cardiac Oxytocin System in Diabetes	\$15,000	Diabetes Research and Action Education Foundation	1/1/2012	12/31/2012
Carlson, C. G.	AZCOM	Physiology	Preclinical Trials of NFkappaB Inhibition in the Treatment of Muscular Dystrophy	\$34,798	NIH-R15	04/03/2009	08/31/2013
Grossman, A.	AZCOM	Anatomy	New Paleontological Investigation as the Miocene Site of Loperot Turkana District, Kenya	\$20,000	The Leakey Foundation	5/10/2011	7/1/2013
Hernandez, J.	AZCOM	Biochemistry	NF Cereals-Engineering N <sub>2</sub> Fixation in Mitochondria	\$14,000	Bill & Melinda Gates Foundation subcontract with the Universidad Politecnica of Madrid, Spain	4/1/2013	12/31/2013
Kokjohn, T.	AZCOM	Microbiology & Immunology	App/Aβ/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

**AZCOM Active Research Awards: \$113,798**

**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
Kozlowski, M.	AZCOPT	Optometry	Evaluation of ANP Analogs in a Model System for AMD	The Value of \$10,113	Kalos Therapeutics	3/5/2012	3/4/2013
Sicks, L.	AZCOPT	Optometry	Teaching GP Contact Lenses Concepts Through DVD Modules	\$2,380	Association of Schools and Colleges of Optometry	8/1/2012	6/5/2013

**AZCOPT (Continued)\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
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: \$49,905**

**CCOM: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Chandar, N.	CCOM	Biochemistry	Regulation of the p53 Gene During Osteoblast Differentiation	\$209,995	NIH-R15	9/1/2007	8/31/2012
Green, J.	CCOM	Biochemistry	Role of the abg Locus of E. coli in Folate Catabolism	\$211,141	NIH-R15	7/17/2009	6/30/2013
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. Still 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
Henderson, K.	CCOM	Physiology	Burn Trauma and Infection	\$12,479	DoD Subcontract with Loyola University	1/1/2012	7/31/2012
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	Role of CD8 + T Cells in Reproductive Sequelae Induced by Chlamydia Infection	\$116,134	NIH-R03	10/1/2011	6/30/2013
Swanson- Mungerson, M.	CCOM	Microbiology & Immunology	Functions of Epstein-Barr Virus LMP2A in Latency	\$219,000	NIH-R15	3/1/2012	2/18/2013

**CCOM (Continued)\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
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
Volin, M.	CCOM	Microbiology & Immunology	Mucin Expression in Rheumatoid Arthritis	\$193,277	NIH-R15	8/17/2008	7/31/2012
Woods, J.	CCOM	Microbiology & Immunology	Manzamine A as an Anti-Inflammatory Treatment for Rheumatoid Arthritis	\$212,820	NIH-R15	9/20/2009	9/29/2012

**Total CCOM Active Research Awards: \$1,817,756**

**CCP: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
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	Mentor, Train and Assist Pediatric Critical Care Medicine & Neonatal-Perinatal Medicine Fellows in Scholarly Activity	\$54,000	Advocate Health and Hospitals Corporation	1/1/2012	12/31/2012
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	7/31/2013
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	12/31/2013
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



**CCP (Continued)\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Gulati, A.	CCP	Pharmaceutical Sciences	MP4OX in Cerebral Ischemia	\$5,000	Sangart, Inc.	1/1/2013	12/31/2013
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	8/31/2012
Schumacher, C.	CCP	Pharmacy Practice	A Collaborative Model to Improve BP Control and Minimize Racial Disparities	\$22,622	NIH Subcontract with the University of Iowa	3/1/2011	2/29/2013

**Total CCP Active Research Awards: \$369,125**

**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

**Total CDMA Active Research Awards: \$485,851**

**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 University of California, San Francisco	6/1/2012	8/31/2012

**CHS (Continued)\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Farrell, K.	CHS	Behavioral Medicine	StrongGirls/StrongBoys	\$26,650	Illinois Violence Prevention Authority	4/1/2011	6/30/2013
Hull, E.	CHS	Biomedical Sciences	Step-Up Program	\$500	NIH through University of California, San Francisco	6/1/2012	8/31/2012

**Total CHS Active Research Awards: \$27,650**

**CPG: 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

**Total CPG Active Research Awards: \$50,000**

**\*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 Active Research Awards: \$2,914,085**

**ALL ACTIVE OTHER AWARDS DURING THE REPORTING PERIOD\***

Investigator/s	College	Department	Proposal Title	Total Award	Agency	Start Date	End Date
Kempton, D.	CHS	Physician Assistant	Physician Assistant Training in Primary Care	\$933,703	Health Resources and Services Administration	8/1/2012	7/31/2017
Piotrowski, K.	CHS	Nurse Anesthesia Program	Nurse Anesthetist Traineeships	\$23,460	Health Resources and Services Administration	7/1/2011	6/30/2013
Schalscha, A. (Riddle M., 2nd year Medical Student)	AZCOM	Clinical Education	Health Outreach through Medicine and Education	\$20,000	Association of American Medical Colleges	6/1/2009	5/31/2013
Speicher, M.	AZCOM	Dean's Office	Distance Learning Program for AZCOM students	\$17,835	The Pittsburgh Foundation	11/30/2011	11/30/2012

**\*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 \$1,531,960 grant submitted by Gregory J. Gaus, Sr. Vice President and Chief Financial Officer, and Susan Brassfield, Grant Specialist, that was awarded by the Illinois Board of Higher Education for Science Hall. MWU received these funds in fiscal year 2013.**

**Total Active Other Awards: \$994,998**

**TOTAL MWU ACTIVE AWARDS: \$3,909,083**

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**PUBLICATIONS****CCP (Continued)**

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**CDMA**

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**PUBLICATIONS****CDMA (Continued)**

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**CDMI**

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## CHS

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- \*Csanyi G, Yao M, Rodriguez AI, Al Ghouleh I, Sharifi-Sanjani M, Frazziano G, Xiaojun H, Kelley EE, Isenberg JS & Pagano PJ. (2012) Thrombospondin-1 regulates blood flow via cd47 receptor-mediated activation of NADPH oxidase 1. *Arteriosclerosis, Thrombosis, and Vascular Biology* Oct 23: epub ahead of print.
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**PUBLICATIONS****CPG (Continued)**

- \*Pogge E. (2012) The Health Benefits of Fibre. *AgroFood Industry Hi-tech* 23(6):35-37.
- \*Pogge EK & Eddings L. (2013) Effect of a 12-week nutrition and wellness program in independent living seniors. *Journal of Nutrition Education and Behavior*. Mar 7: epub ahead of print.
- \*Raney EC & El-Ibiary SY. (2012) Immunizations and pregnancy: An update for pharmacists. *Pharmacy Today* 18(10):70-80.
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**PUBLICATIONS**

**CPG (Continued)**

\*Sclar DA, Robison LM, Schmidt JM, Bowen KA, Castillo LV & Oganov AM. (2012) Diagnosis of depression and use of antidepressant pharmacotherapy among adults in the United States: Does a disparity persist by ethnicity/race? *Clinical Drug Investigation* 32(2):139-144.

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**INTRAMURAL FUNDING**

**AZCOM**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Al-Nakkash, L.	AZCOM	Physiology	Effects of Genistein on the VCD-induced Menopause Mouse
Broderick, T.	AZCOM	Physiology	Effects of Resveratrol in the Obese Diabetic Mouse
Call, G.	AZCOM	Pharmacology	Determining the Role of Ion Channel Genes in the Response of <i>Drosophila Melanogaster</i> to Halothane
Carroll, C.	AZCOM	Physiology	Tissue Adaptations to Exercise and the Influence of Cyclooxygenase Inhibitors
Georgi, J.	AZCOM	Anatomy	Methods of Estimating Mass of the Head in Complete Specimens
Gonzalez, F.	AZCOM	Microbiology & Immunology	The Effect of Proteolysis on Hyphal Cell Development in <i>Candida Albicans</i>
Grow, W.	AZCOM	Anatomy	The Role of Myogenin and MyoD in Neuromuscular Synapse Formation
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	Regulation of the Cold Shock Gene <i>cspA</i> of <i>Staphylococcus aureus</i> by the staphylococcal accessory regulator, SarA
Kaufman, J.	AZCOM	Anatomy	Investigating the Neural Bases of Decision-making Using a Rodent Model of the Iowa Gambling Task
Lawson, K.	AZCOM	Biochemistry	The Role of Aberrant P-Cadherin Expression in Oral Tumor Development
Leyva, K.	AZCOM	Microbiology & Immunology	The Role of Chemokines on Keratocyte Motility and Characterization of Novel Halophiles and Halocins
Nydam, R.	AZCOM	Anatomy	Investigation into the Squamate Fauna of the Early Cretaceous of South Africa & the Late Cretaceous of Southwest Utah
Potter, P.	AZCOM	Pharmacology	Muscarinic Receptor/G-Protein Alterations in Alzheimer's Disease
Tarr, E.	AZCOM	Microbiology & Immunology	Antimicrobial Activity of Nematode Defensins

**Total AZCOM Intramural Funding: \$69,376**

**INTRAMURAL FUNDING**

**AZCOPT**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Handford, P.	AZCOPT	Optometry	Use of a Modified CISS to Assess Symptoms in Patients with Accommodative Dysfunction
Harrison, W.	AZCOPT	Optometry	Sensitivity and Specificity of Red on White Visual Fields Versus Dim and Standard White on White Visual Fields in Healthy Individuals of Different Ages
Hobbs, B.; Neuville, J.	AZCOPT	Optometry	Perspectives of Optometry Students on Industry Relationships
Kozlowski, M.	AZCOPT	Optometry	Comparative Functioning of RPE Cell Layers Reconstituted from Naturally-Produced, Stem Cell-Derived, or Immortalized RPE Cells
Meehan, K.; Vasudevan, B.	AZCOPT	Optometry	Use of Visagraph to Assess the Outcome of Oculomotor Vision Training in Children with Oculomotor Dysfunction
Sicks, L.	AZCOPT	Optometry	Millennial Student Attitudes at a New Optometry Program
Vasudevan, B.; Gaib, S.	AZCOPT	Optometry	Comparison of Visual Performance of Multifocal Contact Lenses
Yevseyenkov, V.	AZCOPT	Optometry	Alzheimer's Disease: Amyloid Biomarkers in the Retina as Measured by Cirrus/HDR-OCT and Electrodiagnostic Measures

**Total AZCOPT Intramural Funding: \$20,393**

**CCOM**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Chandar, N.	CCOM	Biochemistry	p53 Gene in Cancer
Edwards, J.	CCOM	Pharmacology	Altered Insulin Release from Isolated Islets of Langerhans Following Exposure to Cadmium
Green, J.	CCOM	Biochemistry	Folic Acid Metabolism
LePard, K.	CCOM	Physiology	Expression of Apoptotic Markers, Glucose Transporters and Insulin Receptors in Gastrointestinal Vagal Neurons in Type 2 Diabetes Mellitus

**INTRAMURAL FUNDING**

**CCOM (Continued)**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
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
O'Hagan, K.	CCOM	Physiology	Effects of Pregnancy on Voluntary Wheel Running Activity in Rat and Comparison of Spontaneous and Paced Physical Activity on the Uterine Vascular Response to Acute Exercise in Normal Rat Pregnancy
Peuler, J.	CCOM	Pharmacology	Studies in Smooth Muscle: Technical Development for Future Study of Interactive Effects of Metformin and Bethanechol on Gastrointestinal Contractility
Plotkin, B.	CCOM	Microbiology & Immunology	Effect of Insulin and Other Hormones on Bacterial Virulence
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 Biochemical and Related Biochemical Events Leading to Implantation of Mouse Blastocysts

**Total CCOM Intramural Funding: \$48,900**

**CCP**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Gilchrist, A.	CCP	Pharmaceutical Sciences	Development of a Rapid and Robust Method to Diagnose Vancomycin-resistant <i>Enterococci</i> (VRE) Infections and Distinguish Live Versus Dead Pathogens
Hoffman, B. (PGY 1 Resident)	CCP	Pharmacy Practice	Impact of a Diabetes Intervention Tool on the Frequency of Recommendations Made by Pharmacists During a Comprehensive Medication Review
Joshi, M.	CCP	Pharmaceutical Sciences	Liposomal Nanocarrier Based Delivery of ET <sub>B</sub> Receptor Agonist, IRL-1620, for the Treatment of Cerebral Ischemia

**INTRAMURAL FUNDING**

**CCP (Continued)**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Reutzel, T.	CCP	Pharmacy Practice	HPV and HPV Vaccines: An Educational Program for Parents
Rhodes, J. (PGY 2 Resident)	CCP	Pharmacy Practice	Novel Urinary Biomarkers in the Detection of Vancomycin Associated Renal Injury
Venkatesan, N.	CCP	Pharmaceutical Sciences	Development of a Formulation Composition to Prevent Alcohol Induced Dose Dumping with Enteric Coated Formulations
Winkler, S.	CCP	Pharmacy Practice	Transitional Care: Medication Management from Community Hospital to Community Pharmacy

**Total CCP Intramural Funding: \$34,995**

**CDMI**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Chandar, N. (CDMI Student: Seung Jae)	CDMI ADJUNCT	Dental	Understanding the Regulation of Bone Specific Transcription Factor Cbfa-1 by Tumor Suppressor Gene Rb
Plotkin, B. (CDMI Student: Zheng Ma)	CDMI ADJUNCT	Dental	Anti-Biofilm Activity of Antibiotics Currently Licensed for the Treatment of Otitis Media Caused by <i>M. catarrhalis</i>
Singleton, M. (CDMI Student: Greg Brown)	CDMI ADJUNCT	Dental	Effects of Facial Growth Restriction on Infraorbital Morphology in the Rhesus Macaque ( <i>Macaca mulatta</i> ): A Developmental Simulation Study

**Total CDMI Intramural Funding \$17,160**

**CHS**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Bhargava, R.	CHS	Clinical Psychology	Bullying Behaviors, Attitudes Towards Guns and Violence and the Coping Methods of Adolescents

**INTRAMURAL FUNDING****CHS (Continued)**

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>
Burns, S.	CHS	Nurse Anesthesia	Critical Thinking in Nurse Anesthesia Education
Ciancio, M.	CHS	Biomedical Sciences	Influence of Inducible Heat Shock Protein 70 in Preventing <i>Salmonella</i> Typhimurium-induced Gastroenteritis
Evans, C.	CHS	Physical Therapy	Measuring Post-Rehabilitation Community Mobility Using Global Positioning System Technology
Evans, C.	CHS	Physical Therapy	Prevention of High Fat Diet-induced Obesity and Metabolic Syndrome by Voluntary Exercise: Underlying Mechanisms and Mediators
Freeman, D.	CHS	Podiatry	The Effectiveness of a Pilot Faculty Development Program on the Enhancement of Clinical Teaching
Hull, E.	CHS	Biomedical Sciences	Matrix Metalloproteinases in Zebrafish Keratocyte Motility
Hutchings, P.	CHS	Clinical Psychology	Psychologists' Attitudes Toward Psychological Science
Jones, C.	CHS	Biomedical Sciences	Modulation of the Renin-Angiotensin System in Spinal Cord Injury
Kristjansdottir, K.	CHS	Biomedical Sciences	Identifying the NPM1 Interactome in Neuroblastoma Cells
Lee, M.	CHS	Behavior Medicine	The Effects of Graduate Student Peer Review Process on the Quality of Student Academic Writing
Mendel, S.	CHS	Nurse Anesthesia	Interdisciplinary Simulation: Perceptions of Graduate Health Science Students
Nithman, B.	CHS	Physical Therapy	The Reliability of Telehealth Fall & Mobility Screening Applications
Soby, S.	CHS	Biomedical Sciences	<i>Chromobacterium vaccinii</i> sp.nov. as a Potential Biological Control Agent

**Total CHS Intramural Funding: \$42,902**



**INTRAMURAL FUNDING**

**CPG**

INVESTIGATOR	COLLEGE	DEPARTMENT	TITLE
Barletta, J.	CPG	Pharmacy Practice	Use of PPIs in the ICU Setting for Stress Ulcer Prophylaxis
Barletta, J.; El-Ibiary, S.	CPG	Pharmacy Practice	What Makes the Ideal PGY-1 Pharmacy Practice Residency Candidate? A Survey of Program Directors
Bowman, B.; Raney, E.	CPG	Pharmaceutical Sciences and Pharmacy Practice	Implementation and Evaluation of a Mentoring Strategy for the Professional Development of Student Leaders within the MWU-CPG APhA-ASP Chapter
Davis, L.	CPG	Pharmacy Practice	Patient Satisfaction and Rate of Hospital Readmission or Death for Patients Receiving Enhanced Inpatient Heart Failure Education by Pharmacists
Elbayoumi, T.	CPG	Pharmaceutical Sciences	Genistein-loaded Lipidic Nanocarrier Adjuvants Enhance Anticancer Efficacy and Overcome Cancer Resistance to Chemotherapy
El-Ibiary, S.	CPG	Pharmacy Practice	An Assessment of Arizona Pharmacy Students' Attitudes and Beliefs after Experiences with Pharmacist Provision of Emergency Contraception
Jordan, M.; Patton, L.	CPG	Pharmaceutical Sciences and Pharmacy Practice	Development of Guidelines for Accurate Measurement of Small Volume Parenterals Using Syringes
Karr, S.; Knudsen-Gerber, D.	CPG	Pharmacy Practice	Assessing Accuracy and Impact on Clinical Decision-making of Community-based Blood Pressure Monitoring
Knudsen-Gerber, D.	CPG	Pharmacy Practice	Emergency Department Utilization in the Elderly Prescribed Oral Clonidine as Needed for Hypertension in the Ambulatory Care Setting
Olsen, M.	CPG	Pharmaceutical Sciences	Novel Agents for the Treatment of Epilepsy
Rowles, J.	CPG	Pharmaceutical Sciences	Measurement of Critical Thinking Skills and Disposition of Students
Weissig, V.	CPG	Pharmaceutical Sciences	Mitochondria-targeted Delivery of Antioxidants in Cells Exposed to Oxidative Stress

**Total CPG Intramural Funding: \$41,957**

**TOTAL MWU INTRAMURAL FUNDING AWARDED BY ALL COLLEGES  
IN THIS REPORT PERIOD: \$275,683**

**UNIVERSITY-FUNDED RESEARCH ASSOCIATES BY CAMPUS\***

<b>MWU “HARD MONEY” RESEARCH ASSOCIATES</b>		
<b>CAMPUS</b>	<b>FTE</b>	<b>TOTAL COMPENSATION FOR REPORT PERIOD</b>
<b>DOWNERS GROVE, IL</b>	<b>22.0</b>	<b>\$1,222,460</b>
<b>GLENDALE, AZ</b>	<b>22.0</b>	<b>\$1,033,524</b>
<b>TOTAL</b>	<b>44.0</b>	<b>\$2,255,984</b>

**\*THIS INCLUDES FUNDED OR FILLED POSITIONS. THIS DOES NOT  
INCLUDE “SOFT MONEY” RESEARCH ASSOCIATES FUNDED BY  
GRANTS OR CONTRACTS**

**TOTAL COMPENSATION TO ALL COLLEGES FOR RESEARCH ASSOCIATE  
SUPPORT IN FISCAL YEAR 2013 IS \$2,255,984**

**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 2012, MWU has spent \$5,126,600 on capital equipment purchases for research purposes, including \$737,600 in FY 2012.**

**UNIVERSITY-FUNDED PER DIEM CHARGES**

A way in which MWU supports research is through the waiving of animal per diem charges. In FY 2013, MWU waived \$107,814 in animal per diem charges on the Illinois campus and \$8,252 on the Arizona campus.

**TOTAL ANIMAL PER DIEM CHARGES THAT WERE WAIVED ACROSS BOTH CAMPUSES IN THIS REPORT PERIOD: \$116,066**

**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 2012, MWU paid out \$825,961 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>**