Recent discussions about eliminating the prominence of journal impact factors and focusing on the number of times that primary research is cited got me to thinking about MWU’s primary research publications. Regardless of a journal’s impact factor, what are MWU’s most highly cited research publications?

With searching support from MWU Health Science Librarian Andrea Fawcett, a Web of Knowledge search was performed between 1994 and April 6, 2013, focused solely on primary research publications (i.e. excluding reviews). From that list of 1,563 articles published by MWU faculty, here are the top 10* most highly cited articles per year:

- Dr. James Stoehr, co-author; cited 10.6 times/year: Chronic neuroinflammation in rats reproduces components of the neurobiology of Alzheimer’s disease. *Brain Research* 780:294, 1998 (cited 169 times over all years, the most at MWU)

I think it is worth noting that each and every one of these articles represents a collaborative effort between researchers at MWU and another institution, demonstrating the importance of collaborations. I’d like to recognize Dr. Tyler Kokjohn for having an incredible 5 of MWU’s top 10 most cited publications/year, and Dr. James Stoehr for having MWU’s most cited publication overall!!

*This list was limited to current MWU faculty with publications that were at least 3 years old, where at least part of the research was performed at MWU.*
### AZCOM: SUBMITTED PROPOSALS

<table>
<thead>
<tr>
<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
<th>Proposal Title</th>
<th>Date Submitted</th>
<th>Total Budget</th>
<th>Agency</th>
<th>Start Date</th>
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</thead>
<tbody>
<tr>
<td>Al-Nakkash, L.</td>
<td>AZCOM</td>
<td>Physiology</td>
<td>Understanding the Effects of Genistein in Mouse Models of Diabetes and Obesity</td>
<td>7/15/2013</td>
<td>$345,000</td>
<td>American Diabetes Association</td>
<td>1/1/2014</td>
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<tr>
<td>Carroll, C.</td>
<td>AZCOM</td>
<td>Physiology</td>
<td>Acetaminophen: A Novel Intervention for Diabetic Tendinopathy</td>
<td>7/15/2013</td>
<td>$327,540</td>
<td>American Diabetes Association</td>
<td>1/1/2014</td>
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<tr>
<td>Jentarra, G.</td>
<td>AZCOM</td>
<td>Biochemistry</td>
<td>Tissue-specific MeCP2 Complexes and the Role of ATRX in MeCP2-mediated Dendritic Arbor Development</td>
<td>8/19/2013</td>
<td>$100,000</td>
<td>International Rett Syndrome Foundation</td>
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Total of AZCOM Submitted Proposals $939,652

### AZCOPT: SUBMITTED PROPOSALS

<table>
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<th>College</th>
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<tr>
<td>Kozlowski, M.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Development of New Agents to Treat AMD from the ANP Family Peptides</td>
<td>8/5/2013</td>
<td>$89,425</td>
<td>NIH-STTR Subcontract with Kalos Therapeutics, Inc.</td>
<td>4/1/2014</td>
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Total of AZCOPT Submitted Proposals $89,425

### CCOM: SUBMITTED PROPOSALS

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<tbody>
<tr>
<td>Kopf, P.</td>
<td>CCOM</td>
<td>Pharmacology</td>
<td>The Role of 12-Lipoxygenase in Aldosterone Secretion</td>
<td>7/18/2013</td>
<td>$308,000</td>
<td>American Heart Association</td>
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### CCOM (Continued)

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<th>Investigator/s</th>
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<tr>
<td>Joshi, M.</td>
<td>CCOM</td>
<td>Physiology</td>
<td>Subcellular Origin of T-wave Alternans in Intact Mouse Heart</td>
<td>7/5/2013</td>
<td>$142,349</td>
<td>NIH-RO1 Subcontract with University of CA, Merced</td>
<td>7/1/2014</td>
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<tr>
<td>Murthy, A., Ramsey, K. &amp; co-submitted with Joshi, M. from CCP</td>
<td>CCOM</td>
<td>Pathology Microbiology &amp; Immunology</td>
<td>Indo-US Chlamydia Vaccine Development Joint Workshop</td>
<td>8/15/2013</td>
<td>$30,149</td>
<td>Dept. of Science and Technology, India</td>
<td>1/1/2014</td>
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<tr>
<td>Murthy, A., Ramsey, K. &amp; co-submitted with Joshi, M. from CCP</td>
<td>CCOM</td>
<td>Pathology Microbiology &amp; Immunology</td>
<td>Indo-US Combat Chlamydia Center (Joint Networked Centers)</td>
<td>8/15/2013</td>
<td>$80,700</td>
<td>Dept. of Science and Technology, India</td>
<td>1/1/2014</td>
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<td>Tiwari, V.</td>
<td>CCOM</td>
<td>Microbiology &amp; Immunology</td>
<td>Novel Peptides Against Modified Heparan Sulfate</td>
<td>7/16/2013</td>
<td>$204,875</td>
<td>NIH-R21 Subcontract with University of Illinois Chicago</td>
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**Total of CCOM Submitted Proposals $766,073**

### CCP: SUBMITTED PROPOSALS

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<td>Scheetz, M.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Beyond Benchmarking: Evaluation of Carbapenem Utilization in a National Network</td>
<td>9/1/2013</td>
<td>$10,495</td>
<td>Cubist Pharmaceuticals Subcontract with Wayne State University</td>
<td>10/1/2013</td>
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<tr>
<td>Venkatesan, N.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Formulation Approach to Improve the Bioavailability of Poorly Water Soluble Drugs</td>
<td>9/2/2013</td>
<td>$100,000</td>
<td>Pharmaceutical Research and Manufacturers of America Foundation</td>
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## CCP (Continued)

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<tr>
<td>Venkatesan, N.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Development of Alcohol Resistant Coat for Delayed Release Dosage Forms</td>
<td>9/2/2013</td>
<td>$10,000</td>
<td>American Physical Therapy Association</td>
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**Total of CCP Submitted Proposals $130,495**

## CHS: SUBMITTED PROPOSALS

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<th>College</th>
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<th>Total Budget</th>
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<tr>
<td>Kristjansdottir, K.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>The Role of NPM1 and its Interactome in Neuroblastoma</td>
<td>9/6/2013</td>
<td>$100,000</td>
<td>American Cancer Society, Illinois</td>
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**Total of CHS Submitted Proposals: $108,698**

## CPG: SUBMITTED PROPOSALS

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<tr>
<td>Tsu, L.</td>
<td>CPG</td>
<td>Pharmacy Practice</td>
<td>Health Outreach through Medicine and Education (H.O.M.E.)</td>
<td>8/28/2013</td>
<td>$18,500</td>
<td>American Association of Colleges of Pharmacy</td>
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## CPG (Continued)

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<th>Total Budget</th>
<th>Agency</th>
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<tbody>
<tr>
<td>Tsu, L.</td>
<td>CPG</td>
<td>Pharmacy Practice</td>
<td>Effect of Medication Reconciliation and Pharmacist Intervention on Adherence Rates</td>
<td>9/3/2013</td>
<td>$7,266</td>
<td>American Association of Colleges of Pharmacy</td>
<td>1/1/2014</td>
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</table>

Total of CPG Submitted Proposals **$35,766**

**MWU SUBMITTED 20 PROPOSALS FROM ALL COLLEGES**
**FOR FISCAL YEAR 2014: $2,070,109**
AZCOM

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.

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 Anatomy ($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: $40,319

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
OFFICE OF RESEARCH & SPONSORED PROGRAMS

MWU NEW EXTRAMURAL GRANTS FUNDED

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.

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.

Total New Extramural Funding Awarded to CCP: $86,682

CHS

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: $18,000

CPG

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: $5,000

TOTAL MWU NEW EXTRAMURAL FUNDING AWARDED TO ALL COLLEGES IN THIS REPORT PERIOD: $881,796
## AZCOM: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD *

<table>
<thead>
<tr>
<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
<th>Proposal Title</th>
<th>Total Award</th>
<th>Agency</th>
<th>Start Date</th>
<th>End Date</th>
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<tbody>
<tr>
<td>Broderick, T.</td>
<td>AZCOM</td>
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<td>The Cardiac Oxytocin System in Diabesity</td>
<td>$15,000</td>
<td>Diabetes Research and Action Education Foundation</td>
<td>1/1/2012</td>
<td>12/31/2013</td>
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<tr>
<td>Grossman, A.</td>
<td>AZCOM</td>
<td>Anatomy</td>
<td>New Paleontological Investigation as the Miocene Site of Loperot Turkana District, Kenya</td>
<td>$20,000</td>
<td>The Leakey Foundation</td>
<td>5/20/2011</td>
<td>7/1/2013</td>
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<tr>
<td>Hernandez, J.</td>
<td>AZCOM</td>
<td>Biochemistry</td>
<td>NF Cereals-Engineering N₂ Fixation in Mitochondria</td>
<td>$14,000</td>
<td>Bill &amp; Melinda Gates Foundation subcontract with the Universidad Politecnica of Madrid, Spain</td>
<td>4/1/2013</td>
<td>12/31/2013</td>
</tr>
<tr>
<td>Jentarra, G.</td>
<td>AZCOM</td>
<td>Biochemistry</td>
<td>Neuron Structure and Plasticity in Young-adult APOE4 Carriers and Non-carriers</td>
<td>$10,000</td>
<td>Arizona Department of Health Services through the Arizona Alzheimer's Research Center, Inc.</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
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<tr>
<td>Kokjohn, T.</td>
<td>AZCOM</td>
<td>Microbiology &amp; Immunology</td>
<td>App/Aβ/Tau Biochemistry in Transgenic Mice, Familial and Sporadic Alzheimer's Disease</td>
<td>$20,000</td>
<td>NIH Subcontract with Banner Research Institute</td>
<td>5/10/2011</td>
<td>5/31/2014</td>
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<tr>
<td>Valla, J.; Kaufman, J.; Jones, D.; Vallejo, J.; (co-submitted with Olsen, M. from CPG)</td>
<td>AZCOM</td>
<td>Biochemistry</td>
<td>Modes and Mechanisms for the Early Detection, Tracking and Treatment of Alzheimer’s Disease and Associated Disorders</td>
<td>$10,000</td>
<td>Arizona Department of Health Services through the Arizona Alzheimer’s Research Center, Inc.</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
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Total AZCOM Active Research Awards: $109,319
### AZCOPT: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

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<tr>
<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
<th>Proposal Title</th>
<th>Total Award</th>
<th>Agency</th>
<th>Start Date</th>
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<tr>
<td>Gaib, S.; Vasudevan, B.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Low Toric Soft Contact Lens Acceptance Study</td>
<td>$17,412</td>
<td>Contamac, US Inc.</td>
<td>12/1/2012</td>
<td>12/31/2013</td>
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**Total AZCOPT Active Research Awards: $37,412**

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

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<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
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<th>Agency</th>
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<tr>
<td>Henderson, K.</td>
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<td>Physiology</td>
<td>Thyroid Hormone Deiodinases in the Pathogenesis and Treatment for Heart Failure</td>
<td>$217,668</td>
<td>American Heart Association</td>
<td>8/1/2011</td>
<td>12/31/2013</td>
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<tr>
<td>Kopf, P.</td>
<td>CCOM</td>
<td>Pharmacology</td>
<td>The Role of 12-Lipoxygenase in Aldosterone Secretion</td>
<td>$60,000</td>
<td>Pharmaceutical Research and Manufacturers of America Foundation</td>
<td>1/1/2013</td>
<td>12/31/2013</td>
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<tr>
<td>Murthy, A.</td>
<td>CCOM</td>
<td>Pathology</td>
<td>Mechanism(s) of CD8+ T Cell-mediated Chlamydia-induced Reproductive Pathology</td>
<td>$459,396</td>
<td>NIH-R15</td>
<td>7/1/2013</td>
<td>6/30/2016</td>
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<tr>
<td>Murthy, A.</td>
<td>CCOM</td>
<td>Pathology</td>
<td>Immunopathogenesis of Chlamydia Pneumoniae Mediated Atherosclerosis</td>
<td>$214,500</td>
<td>American Heart Midwest Affiliate</td>
<td>7/1/2013</td>
<td>6/30/2016</td>
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### OFFICE OF RESEARCH & SPONSORED PROGRAMS

#### CCOM (Continued)*

<table>
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<tbody>
<tr>
<td>Orr, C.</td>
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<td>Comparative Morphological Analysis of the Hand and Wrist in Ardipithecus Ramidus and Miocene Hominoids</td>
<td>$52,899</td>
<td>NSF</td>
<td>9/1/2013</td>
<td>8/31/2016</td>
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<tr>
<td>Tiwari, V.</td>
<td>CCOM</td>
<td>Microbiology &amp; Immunology</td>
<td>Structure-function Analysis of Zebrafish Encoded 3-OST Enzyme for HSV-1 Entry</td>
<td>$363,742</td>
<td>NIH-R15</td>
<td>7/1/2011</td>
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**Total CCOM Active Research Awards: $1,374,705**

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

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<td>Gettig, J.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Community Pharmacy Residency Expansion Project</td>
<td>$50,000</td>
<td>National Association of Chain Drug Stores Foundation</td>
<td>7/1/2013</td>
<td>6/30/2016</td>
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<tr>
<td>Gulati, A.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Effect of Liraglutide on Permanent Middle Cerebral Artery Occlusion Stroke Model in Normal and Diabetic Rats</td>
<td>$46,618</td>
<td>Novo Nordisk, Inc.</td>
<td>11/22/2010</td>
<td>Until Project Completion</td>
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<td>Gulati, A.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Effect of Liraglutide on Oxidative Stress and Apoptosis in the Brain of Rats with Focal Cerebral Ischemia</td>
<td>$53,191</td>
<td>Novo Nordisk, Inc.</td>
<td>12/1/2012</td>
<td>12/31/2013</td>
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<tr>
<td>Gulati, A.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Mentor, Train and Assist Pediatric Critical Care Medicine &amp; Neonatal-Perinatal Medicine Fellows in Scholarly Activity</td>
<td>$81,000</td>
<td>Advocate Health and Hospitals Corporation</td>
<td>1/1/2013</td>
<td>12/31/2013</td>
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*All amounts are in US dollars.*
### CCP (Continued)*

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<tr>
<td>Gulati, A.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>MP4OX in Cerebral Ischemia</td>
<td>$5,000</td>
<td>Sangart, Inc.</td>
<td>1/1/2013</td>
<td>12/31/2013</td>
</tr>
<tr>
<td>Scheetz, M.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Patient-Oriented Research on Hospital-Acquired Pathogens</td>
<td>$36,682</td>
<td>NIH-K24 subcontract with Northwestern University</td>
<td>7/1/2013</td>
<td>6/30/2018</td>
</tr>
<tr>
<td>Scheetz, M.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Quantifying the Magnitude of Clinical Virulence of KPC through Translational Study</td>
<td>$10,000</td>
<td>Society of Infectious Disease</td>
<td>9/1/2011</td>
<td>Until Project Completion</td>
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**Total CCP Active Research Awards: $379,185**

### CDMA: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

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<tr>
<td>Rolf, D.</td>
<td>CDMA</td>
<td>Dental</td>
<td>Dental Education Grant and Clinical Trials Agreement</td>
<td>The Value of $485,851</td>
<td>Hiossen Inc.</td>
<td>12/15/2011</td>
<td>12/14/2016</td>
</tr>
</tbody>
</table>

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

### CHS: ALL ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

<table>
<thead>
<tr>
<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
<th>Proposal Title</th>
<th>Total Award</th>
<th>Agency</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farrell, K.</td>
<td>CHS</td>
<td>Behavioral Medicine</td>
<td>StrongGirls/StongBoys Bullying Psychoeducational &amp; Prevention Program</td>
<td>$18,000</td>
<td>Illinois Violence Prevention Authority</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
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</table>

**Total CHS Active Research Awards: $18,000**
# CPG: ACTIVE RESEARCH AWARDS DURING THE REPORTING PERIOD*

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

**Total CPG Active Research Awards: $55,000**

*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: $2,459,472**
## ALL ACTIVE OTHER AWARDS DURING THE REPORTING PERIOD*

<table>
<thead>
<tr>
<th>Investigator/s</th>
<th>College</th>
<th>Department</th>
<th>Proposal Title</th>
<th>Total Award</th>
<th>Agency</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burns, S.</td>
<td>CHS</td>
<td>Nurse Anesthesia Program</td>
<td>Nurse Anesthetist Traineeships</td>
<td>$36,246</td>
<td>Health Resources and Services Administration</td>
<td>7/1/2013</td>
<td>6/30/2014</td>
</tr>
<tr>
<td>Pearl, J.</td>
<td>CHS</td>
<td>Physician Assistant</td>
<td>Physician Assistant Training in Primary Care</td>
<td>$933,703</td>
<td>Health Resources and Services Administration</td>
<td>8/1/2012</td>
<td>7/31/2017</td>
</tr>
</tbody>
</table>

*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 Other Awards: $969,949

**TOTAL MWU ACTIVE AWARDS: $3,429,421**
**PEER-REVIEWED PUBLICATIONS**

**AZCOM**


**CCOM**


CCOM (Continued)


CCP


PEER-REVIEWED PUBLICATIONS

CCP (Continued)


CDMA


CDMI


PEER-REVIEWED PUBLICATIONS

CPG (Continued)


## INTRAMURAL FUNDING

### AZCOM

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

### AZCOM (Continued)

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Townsend, K. E.</td>
<td>AZCOM</td>
<td>Anatomy</td>
<td>Excavation and Screen Washing in the Coyote Basin, Uinta Formation, Uinta Basin, Utah</td>
</tr>
<tr>
<td>Vallejo-Elias, J.</td>
<td>AZCOM</td>
<td>Physiology</td>
<td>Role of Caveolins and Sphingolipids in the Mechanism of Insulin Resistance</td>
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Total AZCOM Intramural Funding: $84,371

### AZCOPT

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Handford, P.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Use of a Modified CISS to Assess Symptoms in Patients with Accommodative Dysfunction</td>
</tr>
<tr>
<td>Harrison, W.; Hobbs, B.; Osmotherly, K.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Sensitivity and Specificity of Red on White Visual Fields Versus White on White Visual Fields in Dilated Patients and Patients with Eye Disease</td>
</tr>
<tr>
<td>Kozlowski, M.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Evaluation of Telomerase Enhancing Agents for the Treatment of Dry AMD</td>
</tr>
<tr>
<td>Putman, N.; Harrison, W.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>The Role of Natural Ocular Aberrations in Determining Daily Soft Contact Lens Preference and Visual Performance</td>
</tr>
<tr>
<td>Vasudevan, B.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Interactions of Optical Aberrations and Defocus Following LASIK</td>
</tr>
<tr>
<td>Yevseyenkov, V.; Harrison, W.</td>
<td>AZCOPT</td>
<td>Optometry</td>
<td>Estrogen Levels and Relationship to mfERG Data</td>
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Total AZCOPT Intramural Funding: $22,243

### CCOM

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Chandar, N.</td>
<td>CCOM</td>
<td>Biochemistry</td>
<td>P53 Gene in Cancer</td>
</tr>
<tr>
<td>Edwards, J.</td>
<td>CCOM</td>
<td>Pharmacology</td>
<td>Mechanisms of Cadmium-Induced Hyperglycemia and Hypoinsulinemia</td>
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</table>
## INTRAMURAL FUNDING

### CCOM (Continued)

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goral, J.</td>
<td>CCOM</td>
<td>Anatomy</td>
<td>Effect of Alcohol on Neuroinflammation</td>
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<tr>
<td>Green, J.</td>
<td>CCOM</td>
<td>Biochemistry</td>
<td>Folic Acid Metabolism</td>
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<tr>
<td>LePard, K.</td>
<td>CCOM</td>
<td>Physiology</td>
<td>Effect of Tegaserod on Gastrointestinal Motility in Obese Mouse Model of Type 2 Diabetes Mellitus</td>
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<tr>
<td>Lynch, S.</td>
<td>CCOM</td>
<td>Biochemistry</td>
<td>Protection of HDL From Oxidative Modification by Vitamin C</td>
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<tr>
<td>Mayer, A.</td>
<td>CCOM</td>
<td>Pharmacology</td>
<td>Neuroinflammation, Microglia and Natural Products</td>
</tr>
<tr>
<td>McCulloch, P.</td>
<td>CCOM</td>
<td>Physiology</td>
<td>Brainstem Cardiorespiratory Control Mechanisms</td>
</tr>
<tr>
<td>Peuler, J.</td>
<td>CCOM</td>
<td>Pharmacology</td>
<td>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</td>
</tr>
<tr>
<td>Plotkin, B.</td>
<td>CCOM</td>
<td>Microbiology &amp; Immunology</td>
<td>Effect of Insulin and Other Hormones on Bacterial Virulence</td>
</tr>
<tr>
<td>Ramsey, K.</td>
<td>CCOM</td>
<td>Microbiology &amp; Immunology</td>
<td>Using <em>Chlamydia</em> Variants to Determine Virulence in the Mouse</td>
</tr>
<tr>
<td>Singleton, M.</td>
<td>CCOM</td>
<td>Anatomy</td>
<td>Pilot Project: Influence of Cranial Size on Morphological Integration in Cercopithecine Primates</td>
</tr>
<tr>
<td>Van Winkle, L.</td>
<td>CCOM</td>
<td>Biochemistry</td>
<td>A Study of Certain Biochemicals and Related Biochemical Events Leading to Implantation of Mouse Blastocysts</td>
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### Total CCOM Intramural Funding: $54,700

### CCP

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<th>INVESTIGATOR</th>
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<th>DEPARTMENT</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Gilchrist, A.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Differentiating the Roles of CCR1 versus CCR5 in Triple Negative Breast Cancer</td>
</tr>
<tr>
<td>Griffin, B.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Development of a Pharmacist-Managed Smoking Cessation Curriculum for Implementation in Ambulatory Care</td>
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### INTRAMURAL FUNDING

#### CCP (Continued)

<table>
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<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joshi, M.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Pharmacokinetic Evaluation of Long Circulating Liposomal Nanocarriers Loaded with ETB Receptor Agonist, IRL-1620</td>
</tr>
<tr>
<td>Quiñones-Boex, A.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Revisiting the Characterization of Part-time Pharmacists</td>
</tr>
<tr>
<td>Phillips, J.</td>
<td>CCP</td>
<td>Pharmacy Practice</td>
<td>Fourth Year Pharmacy Students Use of Facebook to Learn During APPE Rotations</td>
</tr>
<tr>
<td>Venkatesan, N.</td>
<td>CCP</td>
<td>Pharmaceutical Sciences</td>
<td>Study on Graviola Fruit Extract for Potential Anti-inflammatory Activity</td>
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</table>

**Total CCP Intramural Funding: $30,183**

#### CDMI

<table>
<thead>
<tr>
<th>INVESTIGATOR</th>
<th>COLLEGE</th>
<th>DEPARTMENT</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Chandar, N. (CDMI Student: Kan Tsunoda)</td>
<td>CDMI Joint Appointment</td>
<td>Dental</td>
<td>The Regulation of MicroRNA 26a by Menin in Osteoblasts</td>
</tr>
<tr>
<td>Chandar, N. (CDMI Student: Nicholas Wyatt)</td>
<td>CDMI Joint Appointment</td>
<td>Dental</td>
<td>Understanding the Role and Regulation of Menin in Osteoblasts</td>
</tr>
<tr>
<td>Murthy, A. (CDMI Student: Kavita Patel)</td>
<td>CDMI Joint Appointment</td>
<td>Dental</td>
<td>The Role of CD8 T cells and TNF-alpha in Chlamydia-induced Reactive Arthritis</td>
</tr>
<tr>
<td>Orr, C. (CDMI Student: Timothy Kamp)</td>
<td>CDMI Joint Appointment</td>
<td>Dental</td>
<td>3D Printed Dentistry-Evaluating Dimensional Accuracy of Mandibles Models Produced Using an Affordable, Commercially Available 3D Printer</td>
</tr>
<tr>
<td>Plotkin, B. (CDMI Student: Thomas Hatakeyama)</td>
<td>CDMI Joint Appointment</td>
<td>Dental</td>
<td>Effect of Anaerobiasis on Polymicrobial Adherence and Infectivity of Agents Associated with Oral Sexually Transmitted Infections</td>
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**Total CDMI Intramural Funding: $23,550**
## INTRAMURAL FUNDING

CHS

<table>
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<th>TITLE</th>
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<tbody>
<tr>
<td>Chavez, P.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>Chemo Sensitization of Multi-drug Resistant Ovarian/Uterine Cancer Cells by Genistein</td>
</tr>
<tr>
<td>Ciancio, M.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>Prevention of High Fat Diet-induced Obesity and Metabolic Syndrome by Voluntary Exercise</td>
</tr>
<tr>
<td>del Toro, C.</td>
<td>CHS</td>
<td>Speech Language Pathology</td>
<td>Semantic Priming of Picture Naming in Adults with Aphasia</td>
</tr>
<tr>
<td>Evans, C.</td>
<td>CHS</td>
<td>Physical Therapy</td>
<td>Measuring Post-rehabilitation Community Mobility Using Global Positioning System Technology</td>
</tr>
<tr>
<td>Fay, M.; Noronha, S.</td>
<td>CHS</td>
<td>Biomedical Sciences and Physician Assistant Studies</td>
<td>Evaluation of Cullin-5 and HE2/c-ErB2 Protein Expression in Human Breast Cancer</td>
</tr>
<tr>
<td>Gasiorowski, J.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>Identification of Cellular Topography Sensor Proteins</td>
</tr>
<tr>
<td>Getch, S.</td>
<td>CHS</td>
<td>Behavioral Medicine</td>
<td>Bright Light Therapy for Postpartum Depression: A Pilot Treatment Trial</td>
</tr>
<tr>
<td>Hull, E.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>Formation &amp; Closure of Holes in Collectively Migrating Keratocyte Sheets</td>
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<tr>
<td>Jaskolski, J.</td>
<td>CHS</td>
<td>Speech Language Pathology</td>
<td>Effects of Phonological Awareness Training on Early Childhood Educator’s Knowledge, Implementation and Student Outcomes</td>
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<tr>
<td>Jones, C.</td>
<td>CHS</td>
<td>Biomedical Sciences</td>
<td>Modulation of the Renin-angiotensin System in Spinal Cord Injury</td>
</tr>
<tr>
<td>Krumdick, N.</td>
<td>CHS</td>
<td>Behavioral Medicine</td>
<td>Perceived Health Threats, Right-wing Authoritarianism, and Attitudes Toward Healthcare Policy: A Pilot Study</td>
</tr>
<tr>
<td>Prodoehl, J.</td>
<td>CHS</td>
<td>Physical Therapy</td>
<td>Effect of Head Posture on 3D TMJ Motion</td>
</tr>
<tr>
<td>William, C.</td>
<td>CHS</td>
<td>Nurse Anesthesia</td>
<td>How Useful is Video Scribing in Learning Mathematical Concepts in Anesthesia?</td>
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**Total CHS Intramural Funding: $47,200**
INTRAMURAL FUNDING

CPG

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<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>Elbayoumi, T.</td>
<td>CPG</td>
<td>Pharmaceutical Sciences</td>
<td>Mitochondria-targeted Genistein Lipidic Nanocarriers</td>
</tr>
<tr>
<td>El-Ibiary, S.</td>
<td>CPG</td>
<td>Pharmacy Practice</td>
<td>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</td>
</tr>
<tr>
<td>Gurney, M.</td>
<td>CPG</td>
<td>Pharmacy Practice</td>
<td>Prescription Drug Monitoring Program: Attitudes, Beliefs, and Usage by Pharmacists and Physicians</td>
</tr>
<tr>
<td>Jordan, M.; Elbayoumi, T.</td>
<td>CPG</td>
<td>Pharmaceutical Sciences</td>
<td>Novel Chia (Salvia hispanica) Oil-based Nanocarrier for Enhanced Delivery and Efficacy of the Anti-melanoma Drug Dacarbazine</td>
</tr>
<tr>
<td>Olsen, M.</td>
<td>CPG</td>
<td>Pharmaceutical Sciences</td>
<td>Novel Epigenetic Agents for the Treatment of Epilepsy</td>
</tr>
<tr>
<td>Rupp, M.</td>
<td>CPG</td>
<td>Pharmacy Practice</td>
<td>Improving Cultural Competence: What Elder Chinese-Americans Want From Their Pharmacist</td>
</tr>
</tbody>
</table>

Total CPG Intramural Funding: $39,992

TOTAL MWU INTRAMURAL FUNDING AWARDED BY ALL COLLEGES IN THIS REPORT PERIOD: $302,239
UNIVERSITY-FUNDED RESEARCH SUPPORT POSITIONS BY CAMPUS*

<table>
<thead>
<tr>
<th>CAMPUS</th>
<th>FTE</th>
<th>TOTAL COMPENSATION FOR REPORT PERIOD</th>
</tr>
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<tbody>
<tr>
<td>DOWNERS GROVE, IL</td>
<td>22.4</td>
<td>$341,045</td>
</tr>
<tr>
<td>GLENDALE, AZ</td>
<td>21.0</td>
<td>$278,076</td>
</tr>
<tr>
<td>TOTAL</td>
<td>43.4</td>
<td>$619,121</td>
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</tbody>
</table>

*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 $619,121

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 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