It is with great pride and enthusiasm that we bring you the UMKC Office of Research Services Annual Report for Fiscal Year 2015 (FY2015). The Annual Report lists, classifies and describes the sponsored programs activities for the University of Missouri Kansas City. This includes all sponsored research and creative activities, intellectual property, and technology transfer data for the period between July 1, 2014 through June 30, 2015. These data include all grants, contracts, and cooperative agreements, from federal and state agencies, private foundations, and various private and industrial organizations, mainly through competitive granting processes.

More than numbers on a page, these data reflect the research and creative activities of a large segment of the faculty from across our campus. They are an expression of the excellence that we demonstrate in areas such as the basic and applied life sciences, cognitive and behavioral studies, material science, criminal justice, adult disability studies, and many others. These activities are the signature of our university community - the creative endeavors that set us apart as a research university in the heart of Kansas City’s urban core.

This year the ORS launched several new events, initiatives and programs including the Annual Faculty Research Symposium, a grant concept and full proposal review program, new web based electronic utilities to support investigator research efforts (OSPREY FCOI utility, and eLARC -- an animal care and use support system), and, what I hope will become one of our signature programs, the Funding For Excellence Faculty Grants Program (FFE). The first round of the Funding For Excellence Faculty awards program attracted 46 applications from faculty members in each of our 11 academic units representing 26 different academic departments. The applications received represented a diverse segment of research and scholarly activity from across the entire University.

Please pay special attention to the Awards by College, School and Department section since it is here that we individually recognize our faculty for their individual scholarly contributions to the collective whole. Without our outstanding faculty, we would not exist as a research university!

Lawrence Dreyfus, Ph.D.
Vice Chancellor for Research and Economic Development
# Funding Comparison

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### Awards Per Year

![Awards Per Year Chart](chart.png)
Annual Expenditures VS New Awards

5 Year Summary of Expenditures

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5 Year Summary of Awards

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### Pre-Award

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![Number of Submitted Proposals](image-url)
Funding For Excellence Faculty Research Grants Program

The first round of the Funding For Excellence Faculty awards program attracted 46 applications from faculty members in each of our 11 academic units representing 26 different academic departments. The applications received represented a diverse segment of research and scholarly activity from across the entire University. The total request for support was $627,942. Seven proposals were selected for funding totaling $101,790.

The funded proposals were:

"Commissioning, Performing, and Recording New Music for Trumpet and Organ" Keith Benjamin, Professor, Instrument Studies, Conservatory of Music and Dance

"Carbon Nanotube and Graphene Nanoribbon based Multijunction Solar Cell - Breaking the Efficiency Barrier of Photovoltaic Devices using Graphene Nanotechnology", Masud Chowdhury, Associate Professor, Department of Electrical and Computer Engineering, School of Computing and Engineering

Revolutionizing Sensing Technology with Conductive Plastic 3D Printing, Travis Fields, Assistant Professor, Department of Civil and Mechanical Engineering
“Wide Open Town", Diane Mutti-Burke, Associate Professor, Department of History, College of Arts and Sciences

"Investigation of novel effectors of the circadian kinases Doubletime/Casein kinase Iδ", Jeffrey Price, Professor, Division of Molecular Biology and Biochemistry, School of Biological Sciences

"Bringing the Field of Applied Mathematics from Shadowed State to the Frontline Discipline", Naveen Vaidya, Assistant Professor, Department of Math, College of Arts and Sciences

"Multiple Toll-Spatzle pathways in Drosophila", XiaoQing Yu, Professor, Division of Molecular Biology and Biochemistry, School
The second annual UMKC Faculty Research Symposium was held on December 11th, 2015 in the Student Union, highlighting research from a variety of disciplines across campuses. This faculty-driven event was created to enable awareness of the research, scholarship, and creative activities performed within the UMKC community. In addition, it is anticipated that the event will promote interaction and collaboration among faculty. The program opened with the induction of five faculty members into the UMKC Chapter of the National Academy of Inventors (below). The keynote presentation was given by Dr. Robert Paul (left), Director of the Missouri Institute of Mental Health, of the University of Missouri St. Louis. Poster sessions followed, showcasing 55 presenters, representing research from 17 departments.

Introduction of New Members to the National Academy of Inventors
From left: Dr. Nasser Arshadi, Vice Provost for Research, University of Missouri St. Louis and Secretary of the NAI; new members Zhonghua Peng; Ashim Mitra, Mark Hoffman; Reza Derakhshani; and Anthony Caruso; and Vice Chancellor Lawrence Dreyfus.
Dr. Agostino Molteni (left) presented three posters from the department of Pathology in the School of Medicine.

*From left:* Chainy Folsom, English Language & Literature, Jesse Lowe, Computer Science & Electrical Engineering, Dr. Jeff Rydberg-Cox, Director of Classics and Ancient Studies, and Dr. John Herron, Chair of History, explore the pages of a Medieval chantbook from the late 15th century.

*From left:* Dr. Cynthia Russell, School of Nursing, and Dr. Paul Rulis, Department of Physics and Astronomy, presented posters at the event.
## Fiscal Year 2015 New Awards

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<th>Division</th>
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# 3 Year Comparison of New Awards

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<td>$35,514,498</td>
<td>207</td>
<td>$32,733,635</td>
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*Diversity award is a prior year adjustment in FY13

**Nursing incorporated ATTCs into their DeptID in FY13
FY15 Awards by Purpose

- Instruction: 8%
- Other Sponsored Programs: 53%
- Research: 39%

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instruction</td>
<td>$2,652,044</td>
</tr>
<tr>
<td>Other Sponsored Programs</td>
<td>$17,384,889</td>
</tr>
<tr>
<td>Research</td>
<td>$12,696,701</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$32,733,634</strong></td>
</tr>
</tbody>
</table>

FY2015 Awards by Type

- Federal: 57%
- State: 25%
- Business and Industry: 2%
- Foundations/Non-Profit: 9%
- Other Universities: 7%

<table>
<thead>
<tr>
<th>Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>$18,623,748</td>
</tr>
<tr>
<td>State</td>
<td>$8,198,492</td>
</tr>
<tr>
<td>Other Universities</td>
<td>$2,315,467</td>
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<tr>
<td>Foundations/Non-Profit</td>
<td>$2,879,125</td>
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<tr>
<td>Business and Industry</td>
<td>$716,802</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$32,733,635</strong></td>
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</tbody>
</table>
FY15 Federal Agency Awards

National Institutes of Health
- National Institute on Aging $1,750,055
- National Institute of Dental And Craniofacial Research $371,250
- National Institute of Arthritis Musculoskeletal and Skin Diseases $317,520
- National Institute on Drug Abuse $334,653
- National Institute on Alcohol Abuse and Alcoholism $655,452
- National Institute of General Medical Sciences $932,004
- National Institute of Allergy And Infectious Diseases $590,353
- National Institute of Mental Health $1,107,958
- National Cancer Institute $197,055
- National Heart, Lung, and Blood Institute $324,833
- National Institute of Diabetes and Digestive and Kidney Diseases $642,492
- National Institute of Neurological Disorders and Stroke $75,500

NIH Subtotal $7,299,126

Centers for Disease Control and Prevention $1,400,441
Health Research Service Administration $2,547,240
National Science Foundation $151,865
Substance Abuse and Mental Health Services Admin $1,183,674
Office of Public Health and Science $754,920
Administration for Children and Families $973,215
Administration for Community Living $746,386
Economic Development Administration $700,000
Other Federal $2,866,881

TOTAL FEDERAL $18,623,748
The UMKC Research Compliance Office for the Office of Research Services (ORS) provides operational and staffing support and administers all research performed on behalf of the UMKC Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), Institutional Biosafety Committee (IBC), and Radiation Safety Committee (RSC).

**Institutional Review Boards (IRB)**
The IRB Administrative Office has completed the restructure of current IRB Standard Operating Procedures with an anticipated release of the first quarter 2016.

The Adult Health Sciences IRB and Social Sciences IRB merger into a single UMKC IRB in an effort to reduce institutional burden, through membership, as well as reduce IRB administrative time while maintaining the consistent standard of service to the research community was implemented without negative effects to IRB efficiency.

The UMKC IRB will soon serve as the Privacy Board for the UMKC School of Dentistry and Truman Medical Centers thereby reducing submission burden and centralizing the review process as it pertains to HIPAA and research.

**Institutional Animal Care and Use Committee (IACUC)**
With the addition of the new application as well as previously released forms the IACUC continues to decrease the overall turnaround time in addition to decreasing the paperwork load on researchers submitting applications, amendments, etc.

The Research Compliance Office has procured an electronic submission system and is currently in the modification phase. Release of the system to the Research community is expected in the second quarter of 2016.

**Institutional Biosafety Committee (IBC)**
The IBC has secured an electronic submission system for the application of IBC materials and hopes to launch it in the first quarter of 2016.

**Radiation Safety Committee (RSC)**
The UMKC RSC successfully:
- Supported an amendment of the USNRC license and changes to State RPD registration to accommodate a novel research project on campus
- Completed annual (required) internal program audit
- Began a process to perform a major review and update of the University’s radiation safety program to allow the University to comply with changes in implementation of state regulations addressing radiation producing device safety and changes in federal regulations addressing radioactive materials safety.

The following table displays the number of protocols (IRB, IACUC, and IBC) and Authorized User Permits (RSC) granted to institutional researchers during the fiscal year 2014 and 2015 as well
as the total numbers of active protocols and permits currently maintained by the respective Boards and Committees.

<table>
<thead>
<tr>
<th>Number of Protocols/Authorized Users (RSC)</th>
<th>2014</th>
<th>2015</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB</td>
<td>272</td>
<td>290</td>
<td></td>
</tr>
<tr>
<td>IACUC</td>
<td>16</td>
<td>10</td>
<td>73</td>
</tr>
<tr>
<td>IBC</td>
<td>59</td>
<td>17</td>
<td>117</td>
</tr>
<tr>
<td>RSC (Permits)</td>
<td>8</td>
<td>6</td>
<td>25</td>
</tr>
</tbody>
</table>

**Technology Commercialization**

The UMKC Office of Technology Commercialization helps UMKC faculty and researchers transfer university inventions to the marketplace, helping them to turn their innovative ideas into products, technologies, and services that can benefit society.

**Business Functions:**

The UMKC Office of Technology Transfer provides the following functions:

- Education of faculty on intellectual property and technology transfer while encouraging invention disclosure from faculty.
- Review disclosures for patentability, freedom to operate, and marketability.
- Maintain federal and grant compliance regarding intellectual property.
- Filing of provisional and non-provisional patents applications.
- Facilitate commercialization of technologies and collaboration with outside organizations via non-disclosure, inter-institutional, and collaboration agreements.
- Actively market and promote technologies to commercial entities.
- Negotiate, draft, and maintain option and license agreements.
- Review and handling of material transfer agreements (MTA’s).
- Negotiation and review of industry sponsored research agreements.

During the 2015 fiscal year the UMKC Office of Technology Commercialization received 22 invention disclosures, and filed 17 patent applications. The Office also executed 3 Licenses/Options during the 2015 fiscal year.
Invention Disclosures Received

Fiscal Year 2012: 12
Fiscal Year 2013: 30
Fiscal Year 2014: 38
Fiscal Year 2015: 22

Patent Applications Filed

Fiscal Year 2011: 8
Fiscal Year 2012: 6
Fiscal Year 2013: 12
Fiscal Year 2014: 19
Fiscal Year 2015: 17

Licenses/Options Executed

Fiscal Year 2011: 0
Fiscal Year 2012: 3
Fiscal Year 2013: 4
Fiscal Year 2014: 6
Fiscal Year 2015: 3
FY2015 External Awards by College, School, and Department
College of Arts & Sciences

Chemistry

Rudakov, Fedor - Combustion of Highly Strained Hydrocarbons: Non-intrusive Isomer Specific Detection Of Complex Combustion Intermediates, $50,000, Brown University

Rudakov, Fedor - Standoff Detection of Effluents from Nuclear Processing, $67,500, Brown University


Rudakov, Fedor - Standoff Detection Of Effluents From Nuclear Processing, $78,523, Brown University

Criminal Justice & Criminology

Novak, Kenneth - Prospect Corridor Demonstration Project (Byrne 2013), $20,000, Kansas City Metro Crime Commission

Sexton, Lori - Collaborative Research: Innovating and Experiencing Punishment, $31,932, NSF Directorate for Social Behavioral & Economic Sciences

Economics

Bowles, Douglas - Expansion of EDC's Creative Business Map Website, Updates to Existing Map and Maintenance and Uniformity, $3,000, Economic Development Corporation of Kansas City

Eaton, Peter – Keep Kansas City Beautiful, $5,962, Bridging The Gap

English Language & Literature

Kline, Katie Maureen - 2014-15 Seed Professional Development in a High-need School, $20,000, National Writing Project Corporation

Kline, Katie Maureen - Implementing Literacy Toward Missouri Learning Standards, $29,505, Missouri Department of Elementary and Secondary Education

Geosciences
**Adejoke, Jimmy Omoniyi** – The Missouri Transect: Climate, Plants and Community, $63,224, NSF Office of Experimental Program to Stimulate Competitive Research

**Coveney Jr., Raymond** – Geochemical Analysis of Fluid Inclusions in Trace and Minor Mississippi Valley-type Zn-Pb Occurrences in the US Mid-Continent: Implications for the Formation of Large Ore Deposits, $117,664, NSF Division of Earth Science

**Lee, Jejung** – Amplified Study of the Interactions and Feedbacks Between Biomass Burning and Water Cycle Dynamics Across the Northern Sub-Saharan African Region, $114,997, NASA Goddard Space Flight Center


*History*

**Burke, Diane Mutti** – Interpreting Slavery Workshop, $2,500, Missouri Humanities Council

*Mathematics*

**Bani Yaghoub, Majid** – Modeling and Analysis of the Next Life Event: Relating Theory and Data, $60,000, H&R Block Foundation

*New Letters*

**Sega, Liana Mihaela** – Infinite Free Resolutions, $7,000, Simons Foundation

**Stewart, Robert** – New Letters Literary Initiative, $16,681, Missouri Arts Council

**Stewart, Robert** – BKMK Press: Enhancing Literary Book Publishing In Missouri, $5,752, Missouri Arts Council

**Stewart, Robert** – A Homage To Chekov, $2,693, Arts Council of Metro Kansas City

**Stewart, Robert** – NEA Art Works BKMK Press/New Letters Publishing Project, $15,000, National Endowment for the Arts

*Physics and Astronomy*


**Brodwin, Mark** – The Euclid Mission, $37,434, Jet Propulsion Lab

**Brodwin, Mark** – A Wise Search for the Most Massive, High-Redshift Galaxy Clusters, $34,197, University of Florida
Caruso, Anthony - Corporate Sponsored Project, $124,811

Caruso, Anthony - Corporate Sponsored Project, $14,900

Caruso, Anthony - Prompt Neutron Spectrometry for Identification of SNM in Unknown Shielding Configurations, $319,455, Office of Naval Research

Ching, Wai Yim - Long Range Van Der Waals-London Dispersion Interactions for Biomolecular and Inorganic Nanoscale Assembly, $286,526, University of Massachusetts, Amherst

McIntosh, Daniel - UMKC Program Proposal for FY2015-2017, $41,000, NASA Goddard Space Flight Center

Paquette, Michelle - Realizing Thick-Film Boron Carbide Direct-Conversion Neutron Detectors, $99,882, Defense Threat Reduction Agency

Psychology

Berkley Patton, Jannette - Multilevel Health Promotion in African American Churches, $360,439, National Center for Minority Health and Health Disparities

Berkley Patton, Jannette - Increasing HIV Screening in African American Churches, $650,519, NIH National Institute of Mental Health

Bruce, Jared M - Standardization and Normative Data for the Symbol Digit Modalities Test – Oral Version, $37,225, Kessler Foundation

Social Work

Bertram, Rosalyn - Implementing and Sustaining Evidence-Based Practice with a Diverse Life Experienced Workforce: A Child Welfare University Partnership, $147,000, National Child Welfare Workforce Institute

Institute for Human Development

Calkins, Carl - Core 5 Year Application 2013-2017-DHHS, $535,215, Administration for Children and Families

Calkins, Carl - Core 5 Year Application 2013-2017-DHHS, $545,919, Administration for Community Living

Calkins, Carl - Adult Continuing Education for Persons with Developmental Disabilities (ACED), $241,143, Developmental Disability Services of Jackson County - Eitas
Calkins, Carl - Tablet and Smartphone Application for Tips for Emergency Response Personnel When Assisting Persons with Developmental Disabilities, $10,000, Developmental Disability Services of Jackson County - Eitas

Calkins, Carl - Supported Decision-Making Technical Assistance and Resource Center, $15,000, University of Kansas Center for Research, Inc.

Fuger, Kathryn L – Corporate Sponsored Project, $65,000

Gotto IV, George Swift - Field Initiated Program, $100,467, Administration for Community Living

Gotto IV, George Swift - Determining the Efficacy of the Self-determined Career Development Model of Instruction to Improve Employment Outcomes for Adults with Developmental Disabilities-NIDRR-CFDA 84.133g-1, US Department of Education

Gotto IV, George Swift - The Developmental Disabilities Health Initiative FY2015, $35,186, Developmental Disability Services of Jackson County – Eitas

Horn, William - People First Steering Committee 2014-2015, $51,926, Missouri Developmental Disabilities Council

Jackson, Laura Courtright - Heartland Self-advocacy Resource Network (HSRN), $100,000, Administration for Community Living

Jenson, Ronda - SPDG Purveyor Supervision FY2016, $430,470, Missouri Department of Elementary and Secondary Education

Jenson, Ronda - SPED Module Development, $20,068, Missouri Department of Elementary and Secondary Education

Jenson, Ronda - SPDG Technologies Management and Development FY2016, $263,413, Missouri Department of Elementary and Secondary Education

Jenson, Ronda - Writing Of Part B, Phase I, State Systemic Improvement Plan (SSIP), $19,746, Missouri Department of Elementary and Secondary Education

Jenson, Ronda Jean - SPDG Technologies Management and Development 2014-2015, $209,474, Missouri Department of Elementary and Secondary Education

Jenson, Ronda Jean - SPDG Management and Content Development, $400,458, Missouri Department of Elementary and Secondary Education

Jenson, Ronda Jean - SPDG Purveyor Supervision 2014-2015, $440,989, Missouri Department of Elementary and Secondary Education
McVeigh, Thomas - Tips 4 Kids-Lend-Years 1-5, $56,676, Health Resources and Services Administration

McVeigh, Thomas - Missouri Transition to Employment Collaborative 2011-2016, $438,000, Administration for Children and Families

McVeigh, Thomas - Missouri Traumatic Brain Injury Implementation Partnership Project, $195,461, Missouri Department of Health and Senior Services

McVeigh, Thomas - Missouri Traumatic Brain Injury Implementation Partnership Project, $188,032, Missouri Department of Health and Senior Services

McVeigh, Thomas - Money Follows the Person Housing Support Initiative 2015-2016, $124,988, Missouri Department of Social Services

Petri, Alexi - Missouri Military Needs Assessment, $10,000, Missouri Department of Mental Health

Reynolds, Michelle - Family Support Community of Practice (COP), $122,682, National Association of State Directors of Developmental Disabilities

Reynolds, Michelle - Missouri Family to Family Health Information Center 2015-2018, $95,700, Health Resources and Services Administration

Reynolds, Michelle - Partners Post Graduate Training 2015, $19,400, Missouri Department of Mental Health

Reynolds, Michelle - DMH Family Support 2014-2015, $60,000, Missouri Department of Mental Health

Reynolds, Michelle - MODDRC/Family to Family-5 Yr-Reynolds, $115,000, Missouri Developmental Disabilities Council

Reynolds, Michelle - Partners Post Graduate Training 2015, $25,000, Missouri Department of Mental Health

Reynolds, Michelle - Consumer Support Survey Data, $6,386, Missouri Department of Mental Health

Reynolds, Michelle - BSHCN Family Partnership YR3 FY2015, $114,011, Missouri Department of Health and Senior Services

Rohs, Jovanna - Early Childhood Comprehensive Systems (ECCS) 2014-2015, $27,745, Missouri Department of Health and Senior Services

Rohs, Jovanna - Kansas City Healthy Start Initiative Evaluation, $123,000, Maternal and Child Health Coalition
Rhols, Jovanna - Quality Matters 2014-2015, $56,500, United Way of Greater Kansas City

Rhols, Jovanna - MO Child Advocacy Centers (CAC) Evaluation 2015, $50,000, Missouri KidsFirst

Willis, Derrick - Add Us In 2014-2015, $375,000, Department of Labor

Willis, Derrick - Kansas City Summer Transportation Institute (KCSTI) 2015, $40,000, Missouri Department of Transportation

Libraries

Postlethwaite, Bonnie - Latino Americans: The Kansas City And Midwest Perspective, $3,000, American Library Association

Radio Station

Leone, Nicolas - Community Service Grant ending 9-30-2016, $287,404, Corporation for Public Broadcasting

Leone, Nicolas - FY15 MAC Public Broadcasting Pass Through, $17,606, Missouri Arts Council

Vestal, Donna Steele - Multimedia Arts on KCUR, $3,600, Missouri Arts Council

Vestal, Donna Steele - KCUR Coverage of Education and Entrepreneurship Reporting, $100,000, Ewing Marion Kauffman Foundation

Vestal, Donna Steele - Arts Reporters, Editor and Freelance, $65,000, Richard J. Stern Foundation for the Arts

School of Biological Sciences

Biology

Bouyain, Samuel Eric Andre - Structural and Biochemical Studies of Protein Tyrosine Phosphatase Function, $237,600, NIH National Institute of General Medicine Sciences

Dobens, Leonard - Genetic and Molecular Search for Targets of the Tribbles Adaptor Protein, $197,055, NIH National Cancer Institute

Kawakami, Jessica - Protein Tyrosine Phosphatase Signaling in Muscle Maintenance, $26,000, American Heart Association
Menees, Thomas - RNA Debranching Enzyme as a Novel Drug Target, $75,500, NIH National Institute of Neurological Disorders

Wyckoff, Gerald - Corporate Funded Project, $11,325

Yao, Xiaolan - Structure and Biochemical Basis of Phosphorylation Inhibition of Ceramide Transfer Protein Function, $357,504, NIH National Institute of General Medical Sciences

Yoder, Marilyn - Mechanisms Underlying Muscle Development in Drosophila, $120,921, Kansas State University

School of Computing & Engineering

Civil & Mechanical Engineering

Bloemker, Katherine Hoffman - Mini Injection Molding PLC Project, $1,000, Alphapointe

Bloemker, Katherine Hoffman - corporate funded project, $1,000

Bloemker, Katherine Hoffman - corporate funded project, $1,000

Bloemker, Katherine Hoffman - corporate funded project, $1,000

Bloemker, Katherine Hoffman - corporate funded project, $1,000

Chen, ZhiQiang - NIFA-BARD Collaborative: Rapid Hydrophobicity Sensing and Computing through MAV-based Hyperspectral Imaging, $65,741, National Institute of Food and Agriculture

Chen, ZhiQiang - NIFA-BARD Collaborative: Rapid Hydrophobicity Sensing and Computing through MAV-based Hyperspectral Imaging, $83,254, National Institute of Food and Agriculture

Chen, ZhiQiang - NCHRP 14-29: Assessing, Coding, and Marking of Highway Structures in Emergency Situations, $22,331, Oregon State University

Fields, Travis - Investigation of Lateral Control Authority of Rotating Cross Parachute, $27,772, The Charles Stark Draper Laboratory, Inc.

Fields, Travis - Modeling and Identification of a High-Altitude Deployed Ram-Air Parafoil, $25,000, NASA Goddard Space Flight Center

Fields, Travis - Real-Time Embedded Parameter Estimation of an Unmanned Aircraft, $18,750, NASA Goddard Space Flight Center
Hart, Megan - NSF EAGER: Pervious Concrete as a Reactive Permeable Barrier for Groundwater Treatment Enhanced with Waste Fly Ash, $44,945, NSF Division of Chemical, Bioengineering, Environmental, and Transport Systems

Kevern, John – Corporate Sponsored Project, $30,000

Computer Science & Electrical Engineering

Derakhshani, Reza - Corporate Funded Project, $21,471

Dinakarpandian, Deendayal- Corporate Funded Project, $10,950

Lee, Yuyung - Corporate Funded Project, $45,000

Song, Sejun - SDN Based NFV-capable Middlebox Control and Management Architecture, $47,036, Electronics & Telecommunications Research

SCE – General

John Truman, Kevin - Corporate Funded Project, $15,000

School of Dentistry

Dean, School of Dentistry

Friesen, Lynn Roosa - Corporate Funded Project, $64,074

Friesen, Lynn Roosa - Corporate Funded Project, $64,336

Friesen, Lynn Roosa - Corporate Funded Project, $67,355

Nickel, Jeffrey Charles - Consortium for Orthodontic Advances in Science and Technology: Innovators’ Workshops on “Personalized and Precision Orthodontic Therapy”, $25,000, American Association of Orthodontists Foundation

Oral and Craniofacial Sciences

Bontewald, Lynda F - Osteocyte Regulation of Bone/Muscle with Age, $1,750,055, NIH National Institute on Aging

Nickel, Jeffrey Charles - Integrating Biomechanics and Cell Biology to Understand TMJ Pathology Administrative Supplement, $72,055, Clemson University

Walker, Mary - Understanding the Mechanism of Radiotherapy-induced Dentition Breakdown, $371,250, NIH National Institute of Dental and Craniofacial Research
Orthodontics and Dentofacial Orthopedics

Rengasamy Venugopalan, Shankar - Genomic Studies in Patients with Craniofacial Disorders, $20,000, American Association of Orthodontists Foundation

Restorative Clinical Sciences

Dallas, Sarah - Dynamics of Assembly of Bone Matrix Proteins, $317,520, NIH National Institute of Arthritis Musculoskeletal and Skin Diseases

McCunniff, Michael - Corey Hastings: ADA Bud Tarrson Dental School Student Community Leadership Award, $5,000, American Dental Association Foundation

School of Education

Community Service

Chase, Phyllis - Charter School Sponsor Finance, $670,000, Missouri Department of Elementary and Secondary Education

Chase, Phyllis - Charter School Sponsor Finance, $652,500, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Area Supervisor Office, $7,440, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Area Supervisor Office, $7,014, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Regional Professional Development Center Consolidated Contract, $37,500, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Regional Professional Development Center Consolidated Contract, $172,000, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Regional Professional Development Center Consolidated Contract, $1,190,000, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Missouri DESE Consolidated Contract, $145,278, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Missouri DESE Consolidated Contract, $170,398, Missouri Department of Elementary and Secondary Education
Collins, Julie Ann - Missouri DESE Consolidated Contract, $173,691, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Missouri DESE Consolidated Contract, $1,140,000, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Missouri School Improvement 1003(g)SIG, $133,146, Missouri Department of Elementary and Secondary Education

Nilsson, Johanna - Psychologists Collaborating and Advocating to Restore Equity (Psi CARE): An Integrated training Program in Behavioral Health Care for Underserved Urban Communities, $167,413, Health Resources and Services Administration

Nilsson, Johanna - Psychologists Collaborating and Advocating to Restore Equity (Psi CARE): An Integrated training Program in Behavioral Health Care for Underserved Urban Communities, $185,927, Health Resources and Services Administration

School of Law

Law – General

Luppino, Anthony - 14th Annual Transactional Clinical Conference in Kansas City, Missouri, $10,000, Kauffman Foundation Center for Entrepreneurial Leadership

Luppino, Anthony - Law, Technology and Access to Justice 2, $52,800, Kauffman Foundation Center for Entrepreneurial Leadership

Luppino, Anthony - UMKC School of Law Fellow in Law Entrepreneurship, $66,500, Kauffman Foundation Center for Entrepreneurial Leadership

School of Management

Business Administration

Schaefer, Tammie - Rewarding Appropriate Professional Skepticism Regardless of the Outcome: The Effect of Supervisor Consultation, $5,000, NC State University

School of Medicine

Allied Health Program
Ervie, Katherine Gale - Physician Assistant White Coat Ceremony, $1,770, The Arnold P. Gold Foundation

Anesthesiology Department

Wang, Qiang – Molecular Regulation of Metabotropic Glutamate Receptors in Striatal Neurons, $457,440, NIH National Institute of Mental Health

Basic Medical Sciences

Fu, Mingui - Post-transcriptional Regulation of Cytokine Production, $77,000, NIH National Institute of Allergy and Infectious Diseases

Qureshi, Nilofer - Pivotal Role of Proteasomes in Inflammation and Tolerance, $286,900, NIH National Institute of General Medical Sciences

Qureshi, Nilofer - Administrative Supplement to Pivotal Role of Proteasomes in Inflammation and Tolerance, $50,000, NIH National Institute of General Medical Sciences

Sabates, Nelson Raymond - Vision Research Center: Vision for the Future, $55,000, Research to Prevent Blindness

Wang, Qiang - Metabotropic Glutamate Regulation of Amphetamine Action, $334,653, NIH National Institute on Drug Abuse

Biomedical/Health Informatics

Allsworth, Jenifer - KC Neighborhood Transformation Initiative – Health and Wellness Neighborhood Needs Assessment, $2,000, Association of Public and Land-grant Universities

Drees, Betty - Planning for Community Based Prevention of Type 2 Diabetes Mellitus, $50,000, Health Care Foundation of Greater Kansas City


Smolderen, Kim - Portrait (Patient-centered Outcomes Related to Treatment Practices in Peripheral Arterial Disease: Investigating Trajectories)- Phase II, $100,087, St. Luke’s Hospital


Spertus, John - Safe-PCI: Enhancing the Safety of PCI via a Patient-centered Approach to Bleeding, $18,452, Washington University

Family Medicine
**Barnett, Angela** - Advancement of Integrative Medicine at UMKC, $15,000, The Well Foundation

**Barnett, Angela** - Sojourner Health Clinic 2014, $35,772, Lazarus Ministries

**Barnett, Angela** - Integrating Physician Assistants in a Medical-Student Run Free Health Clinic- An Interprofessional Collaboration, $25,000, Reach Healthcare Foundation

*Internal Medicine*

**Ashraf, Muhammad Javed** - Decision Quality for Patients with Coronary Artery Disease, $89,128, University of California San Francisco

**Drees, Betty** - To Assess Whether, in Participants with Pre-diabetes, Oral Daily Vitamin D3 (Cholecalciferol) Supplementation Reduces the Rate of Progression from Pre-diabetes to Diabetes,$43,256, Tufts University

**Drees, Betty** - To Assess Whether, in Participants with Pre-diabetes, Oral Daily Vitamin D3 (Cholecalciferol) Supplementation Reduces the Rate of Progression from Pre-diabetes to Diabetes,$163,840, Tufts University

**Salzman, Gary** - Anxiety and COPD Evaluation (ACE) Study, $12,000, American Lung Association

**Salzman, Gary** - Asthma Clinical Research Centers (ACRC) Core Award July 1, 2014- June 30, 2015, $75,000, American Lung Association

*Medicine – General*

**Spertus, John** - Cardiovascular Outcomes Research Training Program, $324,833, NIH National Heart, Lung, and Blood Institute (NHLBI)

*School of Medicine Research*

**Allsworth, Jenifer** - Transformation of the Health Care Workforce to Combat Disparities, $214,200, Association of American Medical Colleges

**Koulen, Peter** - Novel Mechanistic Targets of Steroid Hormones in the Brain, $240,350, University of North Texas

**Spertus, John** - Heartland Institute for Clinical and Translational Research (HICTR) Personalized Medicine and Outcomes Center (PMOC), $96,878, University of Kansas Medical Center Research Institute

**Spertus, John** - International Study of Comparative Health Effectiveness with Medical and Invasive Approaches, $51,009, Duke University

**Steele, Mark** - Clinical Utility of Influenza Diagnosis and Laboratory-based Surveillance, $280,908, Johns Hopkins University
School of Nursing & Health Studies

*Nursing-General*

**Brommelsiek, Margaret** - Improving Fragmentation in Healthcare: Employing Interprofessional Education for Managing Multiple Chronic Conditions in an Urban Setting, $245,014, Health Resources Services Administration

**Brotto, Marco** - KLF15 is a Novel Regulator of Skeletal Muscle Metabolism, $25,498, Case Western University

**Cary, Ann** - Support for a Diverse Nursing Workforce, $550,000, Health Resources Services Administration

**Ellington, Erin** - Advancing Clinical Intervention, Prevention, and Treatment for Behavioral Health for Underserved Urban Youth through Interprofessional Primary Care Practice, $132,924, Health Resources Services Administration

**Gotham, Heather** - Substance Abuse Treatment to HIV care (SAT2HIV), $7,333, Chestnut Health Systems

**Gotham, Heather** - Substance Abuse Treatment to HIV care (SAT2HIV), $92,543, RTI International

**Gotham, Heather** - Transforming the Academic Preparation of Health Professionals' Competency-Based SBIRT Training (UMKC SBIRT), $312,517, Substance Abuse and Mental Health Services Administration

**Gotham, Heather** - Transforming the Academic Preparation of Health Professionals' Competency-Based SBIRT Training (UMKC SBIRT), $371,517, Substance Abuse and Mental Health Services Administration

**Kelly, Patricia** - Sexual Health Empowerment for Cervical Health and Cancer Prevention, $22,037, University of Kansas Medical Center Research Institute

**Krom, Laurie** - Providers Clinical Support System for Opioid Therapies, $30,031, American Academy of Addiction Psychiatry

**Krom, Laurie** - National CBA Provider Network Resource Center, $1,400,441, Centers for Disease Control and Prevention

**Krom, Laurie** - Addiction Technology Transfer Centers (ATTC)
TI-12-008, $325,039, University of Wisconsin Madison
Peterson, Jane - Mobilizing Interprofessional Care Teams toward Improving the Behavioral and Physical Health of Medically Underserved Veterans with Multiple Chronic Conditions, $364,503, Health Resources Services Administration

Roberts, Cristine - Online and In Person Parent Education/Support for Families, $29,976, Organization for Autism Research

Roberts, Melissa - Advanced Education Nursing Traineeships at UMKC SoNHS, $329,691, Health Resources Services Administration

Roberts, Melissa - Advanced Education Nursing Traineeships at UMKC SoNHS, $339,640, Health Resources Services Administration

Russell, Cynthia - A Pilot RCT for Medication Adherence in Older Kidney Transplant Recipients, $45,413, KC Area Life Science Institute

Russell, Cynthia - SystemCHANGE: An RCT for Medication Adherence in Adult Kidney Transplant Patients, $642,492, NIH National Institute of Diabetes and Digestive Kidney Diseases

Schwarz, Jennifer - Nurse Anesthetist Traineeship Program, $23,076, Health Resources Services Administration

Stilien, Patricia - Region 7 NIDA, $500,000, Substance Abuse and Mental Health Services Administration

Witt, Jacquelyn - 2010 Family Planning Clinical Training Cooperative Agreement, $754,920, Office of Public Health and Science

Witt, Jacquelyn - National Clinical Training Center for Family Planning (NCTCFP) at The University of Missouri- Kansas City School of Nursing and Health Studies, $743,710, U.S. Public Health Service

School of Pharmacy

Pharmaceutical Sciences

Cheng, Kun - Targeted delivery of PCBP2 siRNA for treating alcoholic liver fibrosis, $325,895, NIH National Institute on Alcohol Abuse

Mitra, Ashim - Novel Peptide Strategy to Selectively Deliver Chemotherapeutics to Cancer Cells, $10,000, University of Kansas Medical Center Research Institute

Youan, Bi Botti Celestin - Prevention of HIV/AIDS by Stimuli-Sensitive Nanomedicine for Microbicide Delivery, $363,853, National Institute of Allergy and Infectious Diseases (NIAID)
Kumar, Anil - Alcohol Abuse and HIV-mediated Neurotoxicity, $329,557, NIH National Institute on Alcohol Abuse

Pharmaceutical Practices

Nelson, Leigh Anne - Recovery after an Initial Schizophrenia Episode (RAISE), $54,068, The Feinstein Institute for Medical Research

Nelson, Leigh Anne - Exploring Barriers to Care in First Episode Psychosis / Developing Strategies to Reduce DUP in the Age of Social Media and the Internet, $27,489, The Feinstein Institute for Medical Research

Sommi, Roger - Corporate Sponsored Project, $29,533

Sommi, Roger - Corporate Sponsored Project, $36,289

Sommi, Roger - Corporate Sponsored Project, $112,759

UMKC Innovation Center

Digital Sandbox KC

Meyers, Maria - Missouri Small Business Technology Development Center, $157,268, US Small Business Administration

Meyers, Maria - MOBEC Funding For Digital Sandbox KC, $300,000, Missouri Tech Corp

KC Artist Inc.

Meyers, Maria - Artist Inc. Regional Program FY2015, $22,000, Mid America Arts Alliance

KC SourceLink.

Meyers, Maria - Mapping Entrepreneurial Resources for JP Morgan Chase, $38,000, JPMorgan Chase Foundation

Missouri Procurement Tech. Asst.

Meyers, Maria - MO PTAC, $85,000, Defense Logistics Agency

U.S. SourceLink

Meyers, Maria - Review of Entrepreneurial Assets in Sacramento, CA, $12,000, Sacramento Employment and Training Agency
Innovation Center General

Meyers, Maria - Artist Inc. Online Programs - BCEC FY15, $14,553, Brush Creek Enterprise Center, Inc.

Meyers, Maria - Brush Creek Enterprise Center MO Innovation Center FY15, $138,384, Sacramento Employment and Training Agency

Meyers, Maria - FY 2013 University Center Economic Development Program Competition-match, $200,000, Economic Development Administration

Meyers, Maria - 2014 i6 Challenge - Digital Sandbox Expansion, $500,000, Economic Development Administration

Meyers, Maria - Scaleup America, $299,920, US Small Business Administration

Meyers, Maria - EMKF Expansion of U.S. SourceLink, $180,000, Ewing Marion Kauffman Foundation

Meyers, Maria - Digital Sandbox V2 Match, $200,000, Ewing Marion Kauffman Foundation

Meyers, Maria - Urban Business Growth Initiative KCMO FY15, $100,4500, City of Kansas City, MO

Whiteboard 2 Boardroom

Meyers, Maria - FY14 MOBEC Whiteboard 2 Boardroom Expansion Year Two, $110,000, Missouri Tech Corp.

FY2015 University of Missouri Research Board Awards

College of Arts & Sciences

Communication Studies

Martin, Jason - Examining Freshman Adaptation and Student Retention, $27,085

Foreign Languages & Literature

Edwards, Matthew - Closet Engagements: Queer Culture in Argentina, $20,000

Mathematics & Statistics
Bani-Yaghoub, Majid - A New Methodology to Measure Long-Term Temporal Changes, $5,700

Conservatory of Music & Dance

Carl, Jane - Recording of American Music for Clarinet, $25,450

School of Computing & Engineering

Rao, Praveen - Scalable Learning and Reasoning via Bayesian Networks, $30,819

School of Medicine

Venkitachalam, Lakshmi - Cardiovascular Risk Assessment in Rural Primary Care, $66,591

School of Pharmacy

Gutheil, William - Novel Antibacterial Agent Screening Approaches, $26,000
Back row, from left: Chelsea Dahlstrom, Melanie Roberts, Chris Winders, Anthony Caruso, Amir Ayoub, Lawrence Dreyfus, Laura Abron, Arminta Brown, Lora Owens, Eric Anderson
Front row, from left: Keron Hopkins, Rebekah Lee, Maureen Hannoun, Jodi Troup, Tsvetina Pavlova, Sheela Perumalla, Crystal Simonis, Sandy Wilson, Linda Daugherty, Leslie Burgess

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