In the pages that follow, the staff members of the UMKC Office of Research Services present to you our Annual Report for Fiscal Year 2016 (FY2016). The ORS 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 of July 1, 2015 through June 30, 2016. 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 – that is, those faculty members that have engaged in the sponsored research and sponsored scholarly activity. These data represent, in part, an expression of the excellence demonstrated 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 ORS sponsored the second Annual Faculty Research Symposium, Co-Sponsored (with the Kansas City Area Life Sciences Institute) the First Annual Midwest Bioinformatics Conference, and (again co-sponsored with KCALSI) the Annual Translational Medicine Conference. We view these symposia as vital efforts to keeping faculty informed and engaged in cutting edge research opportunities. For the coming year ORS will also be co-sponsoring the Kansas City Musculoskeletal Diseases Consortium annual meeting, a first for this UMKC-sponsored consortium that also includes the Kansas University Medical Center and the Kansas City University of Medicine and Biosciences.

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 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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<th>Award Total</th>
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<tr>
<td>FY14</td>
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### Awards Per Year

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### Annual Expenditures VS New Awards

#### 5 Year Summary of Expenditures

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#### 5 Year Summary of Awards

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#### 5 Year Summary of Annual Expenditures

![Bar chart showing annual expenditures from 2012 to 2016]

#### 5 Year Summary of Awards

![Bar chart showing awards from 2012 to 2016]
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Funding For Excellence Faculty Research Grants Program

The second year of the Funding For Excellence Faculty awards program attracted 31 applications from faculty members representing 18 different academic departments. The applications received represented a diverse segment of research and scholarly activity from across the entire University. Eight proposals were selected for funding totaling $114,458.

The funded proposals were:

"The Rise and Death of the Apocalypse; from the Second to the Fourth Dimension" Ricky Allman, Associate Professor, Art & Art History, College of Arts and Sciences

"TRIM65 Acts as an E3 Ligase to Control Vascular Inflammation", Mingui Fu, Associate Professor, Department of Basic Medical Sciences, School of Medicine

“Using Home-Based and Wearable Technology to Predict Cognitive Frailty and Functional Decline in Aging”, Gregory King, Associate Professor, Department of Civil and Mechanical Engineering

“Brain Stimulation and Neural Dynamics of Dietary Self-Control for Healthy Eating Decisions”, Seung Lark Lim, Assistant Professor, Department of Psychology, College of Arts and Sciences

"Megathrust Earthquakes on the Himalayan Frontal Fault in North Central India", Tina Niemi, Professor, Department of Geosciences, College of Arts and Sciences

"Prescription (Rx) Drug Misuse in a Sample of Incarcerated Men", Jennifer Owens, Assistant Professor, Department of Criminal Justice & Criminology, College of Arts and Sciences

“The Crossroads”, Whitney Terrell, Assistant Professor, Department of English Language & Literature, College of Arts & Sciences

“Microscopic Study of Ion Adsorption in Graphene-based Materials for Renewable Energy Applications”, Da-Ming Zhu, Professor, Department of Physics & Astronomy, College of Arts & Sciences
Andrew Keightley, left, director of the UMKC proteomics core, and Anthony Persechini, director of research at the School of Biological Sciences, demonstrate the capabilities of the new mass spectrometer pictured below. This state-of-the-art equipment provides new avenues of molecular analysis, including biomarker discovery, proteome analysis and 3-D structural information, to name but a few.

*Photos by Brandon Parigo, Strategic Marketing and Communications*
# Fiscal Year 2016 New Awards

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## 3 Year Comparison of New Awards

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<td>$32,733,635</td>
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**FY16 Awards by Purpose**

- Instruction: 4%
- Research: 47%
- Other Sponsored Programs: 49%

**FY16 by Purpose**

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<td><strong>Total</strong></td>
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**FY16 Awards by Type**

- Federal: 62%
- State: 16%
- Other Universities: 5%
- Foundations/Non-Profits: 12%
- Business and Industry: 5%

**FY16 by Type**

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</tr>
<tr>
<td>Foundations/Non-Profit</td>
<td>$4,138,374</td>
</tr>
<tr>
<td>Business and Industry</td>
<td>$1,648,046</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$34,786,378</strong></td>
</tr>
</tbody>
</table>
FY16 Federal Agency Awards

National Institutes of Health
- National Institute on Aging: $1,667,655
- National Institute of Dental And Craniofacial Research: $1,616,649
- National Institute of Arthritis Musculoskeletal and Skin Diseases: $162,510
- National Institute on Alcohol Abuse and Alcoholism: $665,645
- National Institute of General Medical Sciences: $336,072
- National Institute of Allergy And Infectious Diseases: $629,000
- National Institute of Mental Health: $1,038,402
- National Cancer Institute: $328,426
- National Heart, Lung, and Blood Institute: $320,262
- National Institute of Diabetes and Digestive and Kidney Diseases: $1,989,525
- NIH Office of the Director: $600,000

**NIH Subtotal**: $9,354,146

Centers for Disease Control and Prevention: $1,405,000
Health Research Service Administration: $2,249,963
National Science Foundation: $1,596,882
Substance Abuse and Mental Health Services Admin: $1,470,174
Office of Public Health and Science: $500,000
Administration for Children and Families: $430,000
Administration for Community Living: $672,473
Economic Development Administration: $1,365,265
Other Federal: $2,709,275

**TOTAL FEDERAL**: $21,753,178
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)**
In September the IRB Administrative Office released the updated and vastly improved IRB SOPs. The new SOPs can be found at [http://ors.umkc.edu/research-compliance-(iacuc-ibc-irb-rsc)/institutional-review-board-(irb)/standard-operating-procedures](http://ors.umkc.edu/research-compliance-(iacuc-ibc-irb-rsc)/institutional-review-board-(irb)/standard-operating-procedures).

On September 1, 2016 the UMKC IRB began reviewing HIPAA applications previously reviewed by the UMKC School of Dentistry and Truman Medical Centers. Redundancy existed between the application of the Privacy Boards and the IRB application regarding confidentiality of Protected Health Information. With the IRB reviewing HIPAA applications investigator burden pertaining to submission applications will be reduced and the overall process streamlined.

**Institutional Animal Care and Use Committee (IACUC)**
The IACUC hosted several educational Webinars throughout the 9/24/15 – Resources for the 3R’s (Replacement, Refinement, and Reduction), Vertebrate Animal Section, Grant Policy and Congruence, Balancing Public Interest, Benefit and Risks in Animal Research and Identifying and Preventing Distress in Laboratory Animals.

Jodi Troup and Andrea Commons instituted a new educational component for the LARC staff that brings in UMKC researchers to describe their research in an attempt to better integrate the LARC staff into the overall research design. Dr. Mark Johnson was the first presenter and provided a thorough explanation of his team’s research and the integral part the LARC technicians perform in the overall conduct of that research. The design is to allow the technicians to better understand the research as well as inform them of the contribution they make in advancing animal and human research through the work they do.

**Institutional Biosafety Committee (IBC)**
The IBC is still in the processing of working with Children’s Mercy Hospital to develop and launch an electronic submission system for the application of IBC materials.

**Radiation Safety Committee (RSC)**
The UMKC RSC successfully:

- Completed the amendment of the USNRC license and changes to State RPD registration
- Began the lengthy process of updating and improving the RSC Handbook
- 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 2015 and 2016 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>2016</th>
<th>2015</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Not Human Subjects Research</td>
<td>98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Exempt (New &amp; Amendments)</td>
<td>219</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Expedited/Full Board (New, Amendments &amp; Continuing Reviews)</td>
<td>305</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IACUC (New applications)</td>
<td>8</td>
<td>8</td>
<td>71</td>
</tr>
<tr>
<td>IACUC Renewals</td>
<td>24</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>IBC (New)</td>
<td>18</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>IBC (Renewals)</td>
<td>17</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>RSC (Permits)</td>
<td>0 (due to the new license)</td>
<td>6</td>
<td>25</td>
</tr>
</tbody>
</table>

Office of Technology Commercialization

The UMKC Office of Technology Commercialization facilitates UMKC faculty and researchers in transferring 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 Commercialization 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 23 invention disclosures, and filed 20 patent applications. The Office also executed 2 Licenses/Options during the 2015 fiscal year.
Collective images of the compact light sources built in the Friedman Lab as part of the Light Activated Insulin project. They have been used to stimulate and control insulin release in diabetic animals.

*Images provided by Dr. Simon Friedman, Professor of Medicinal Chemistry in the School of Pharmacy.*
FY2016 External Awards by College, School, and Department
College of Arts & Sciences

Art & Art History

Brockway, Hannah - Mind Body Entente, $1,236, Missouri Arts Council

Chemistry

Chen, Xiaobo - Microelectrovolt Electromagnetic Absorption for Wide Bandgap Semiconductors, $308,171, NSF Directorate for Mathematical & Physical Sciences

Wurrey, Charles - Dissecting Allostry in Pyruvate Kinase, $17,804.00, University of Kansas Medical Center Research Institute, Inc.

Rudakov, Fedor - Standoff Detection of Effluents from Nuclear Processing. $81,726, Brown University

Continuing Education Programs, A&S

Mebane, Carla Deanne - High School Rigor in Concurrent Enrollment Research Proposalcomparing and Collecting Data Between High School and College Freshman Academic Analysis in the Hspc Program of UMKC, $750, National Alli of Concurrent Enrollment Partnerships

Criminal Justice & Criminology

Sexton, Lori - Collaborative Research: Innovating and Experiencing Punishmentinn Denmark, $28,391, NSF Directorate for Social Behavioral & Economic Sciences

Economics

Kelsay, Michael - The Economic Impact of Repealing Missouri’s Prevailing Wage Law: Updated Analysis 2011-2015, $14,703, Committee to Protect Missouri Families


Eaton, Peter – Kansas City Home Environmental Assessment Research Taskforce, $156,106, Children’s Mercy Hospital

Eaton, Peter – Analysis of QCEW Data for Kansas City Entrepreneurship Dashboard Project, $20,650, Ewing Marion Kauffman Foundation
**English Language & Literature**

**Green, Jane** - Tracing the Impact of Undergraduate Research in Rhetoric and Composition/Writing Studies, $8,213, National Council of Teachers of English

**Geosciences**

**Adegoke, Jimmy Omoniyi** – Corporate Sponsored Project, $50,000

**Lee, Jejung** - Amplified Study of the Interactions and Feedbacks Between Biomass Burning and Water Cycle Dynamics Across the Northern Sub-Saharan African Region, $126,068, NASA Goddard Space Flight Center

**History**

**Herron, John** - UMKC Department of History Drinking About Museums, $3,000, American Historical Association

**Burke, Diane Mutti** - Wide Open Town: Kansas City between the Wars, 1918-1941, $5,000, Freedom’s Frontier National Heritage Area

**Burke, Diane Mutti** - Wide Open Town: Kansas City between the Wars, 1918-1941, $8,610.00 Missouri Humanities Council

**Mathematics**

**Zeng, Yong** - IPA Assignment, $150,320, NSF Directorate for Mathematical & Physical Sciences

**New Letters**

**Stewart, Robert** – BKMK Press: Supporting Literary Book Publishing in Missouri, $6,403, Missouri Arts Council

**Stewart, Robert** – New Letters Literary Initiative, $10,993 Missouri Arts Council

**Physics and Astronomy**

**Brodwin, Mark** - Determining the Universality of F_Gas at High Redshift, $63,102, Smithsonian Astrophysical Observatory

**Brodwin, Mark** - Determining the Role of Merging in the Growth of the Galaxy Cluster Population in the Massive and Distant Clusters of Wise Survey, $10,000, Jet Propulsion Lab

**Brodwin, Mark** - Environmental Signatures on Galaxy Populations in the Most Massive Clusters at Z~1.5, $35,823, Space Telescope Science Institute

**Brodwin, Mark** - Snapshots of Massive Galaxy Clusters at Z~1 from the Massive and Distant Clusters of Wise Survey, $47,500, Jet Propulsion Lab

**Brodwin, Mark** - The Euclid Mission, $70,000, Jet Propulsion Lab

**Caruso, Anthony** - Corporate Sponsored Project, $20,973

**Caruso, Anthony** - Corporate Sponsored Project, $23,997

**Caruso, Anthony** - Corporate Sponsored Project, $93,865

**Caruso, Anthony** - Corporate Sponsored Project, $96,135

**Caruso, Anthony** - Study of Soft Ferroelectric Materials for CDEW Applications, $25,000, Office of Naval Research

**Caruso, Anthony** - Tuning Solids for RF Transmission, $195,000, Office of Naval Research

**Caruso, Anthony** - High Power Microwave Characterization Instrumentation for Solid-State Materials, $399,695, Office of Naval Research

**Caruso, Anthony** - Urania-based Direct Conversion Neutron Detectors, $101,590, University of Tennessee

**McIntosh, Daniel** - UMKC Program Proposal for FY2015-2017, $28,500, NASA Goddard Space Flight Center

**Paquette, Michelle** - Realizing Thick-Film Boron Carbide Direct-Conversion Neutron Detectors, $99,950, Defense Threat Reduction Agency

**Wrobel, Jerzy** - Corporate Sponsored Project, $99,599

*Psychology*

**Baker, Lindsey** - Civic Engagement among Older Adult in Eastern Jackson County, $24,860, Truman Heartland Community Foundation

**Berkley Patton, Jannette** - Increasing HIV Screening in African American Churches, $636,654, NIH National Institute of Mental Health

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

**Bruce, Jared** - Development of a Treatment Decision Model in MS, $315,341, National Multiple Sclerosis Society
Lim, Seung Lark - Genetic and Molecular Search for Targets of the Tribbles Adaptor Protein, $164,213, NIH National Cancer Institute

Social Work

Bertram, Rosalyn - Implementing and Sustaining Evidence-Based Practice with a Diverse Life Experienced Workforce: A Child Welfare University Partnership, $252,480, National Child Welfare Workforce Institute

Sociology

Oh, Sookhee - Politics and Immigrant Growth Machines in Koreatown and Monterey Park, $39,713, Research Foundation of SUNY

Institute for Human Development

Calkins, Carl - Core 5 Year Application 2013-2017-DHHS, $547,000, Administration for Children and Families

Calkins, Carl - Adult Continuing Education for Persons with Developmental Disabilities (ACED), $251,588, 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.

Gotto IV, George Swift - Developmental Disabilities Health Initiative 2015-2017, $34,825, Developmental Disability Services of Jackson County - Eitas

Gotto IV, George Swift - Missouri Support Coordination Capacity and Innovation Project, $80,000, Missouri Department of Mental Health

Gotto IV, George Swift - Missouri Traumatic Brain Injury Implementation Partnership, $197,694, Missouri Department of Health and Senior Services

Gotto IV, George Swift - Health Matters Scale Up, $20,000, University of Illinois System

Horn, William - People First Steering Committee 2015-2016, $44,924, Missouri Department of Mental Health

Horn, William - Money Follows the Person Implementation Support 2011-2016, $233,484, Missouri Department of Social Services
Jackson, Laura Courtright - Heartland Self-advocacy Resource Network (HSRN), $100,000, Administration for Community Living

Jenson, Ronda - Team For Infants Endangered By Substance Abuse (TIES), $83,334, Children's Mercy Hospital

Jenson, Ronda - Missouri Post Secondary Success Online Learning Packages, $32,041, Missouri Department of Elementary and Secondary Education

Jenson, Ronda - Inclusive School Project, $138,000, Missouri Developmental Disabilities Council

Jenson, Ronda - MOSPDG Purveyor Supervision 2016-2017, $426,301, Missouri Department of Elementary and Secondary Education

Jenson, Ronda Jean - SPDG Content, Technologies, and Management 2016-2017, $881,568, Missouri Department of Elementary and Secondary Education

McVeigh, Thomas - Missouri Transition to Employment Collaborative 2011-2016, $430,000, Administration for Children and Families


Reynolds, Michelle - Family Support Community of Practice (COP), $82,688, National Association of State Directors of Developmental Disabilities

Reynolds, Michelle - Missouri Family to Family Health Information Center 2015-2018, $94,800, Health Resources and Services Administration

Reynolds, Michelle - DMH Family Support Project, $45,692, Missouri Department of Mental Health

Reynolds, Michelle - MODRDC/Family to Family-5 Yr-Reynolds, $100,000, Missouri Developmental Disabilities Council

Rohs, Jovanna - Quality Matters Project 2015-2016, $28,250, United Way of Greater Kansas City

Rohs, Jovanna - Kansas City Healthy State Initiative Evaluation, $102,460, Maternal and Child Health Coalition

Rohs, Jovanna - Team for Infants Endangered by Substance Abuse (TIES)-AIA-MO, $65,000, Children's Mercy Hospital

Rohs, Jovanna - TIES (MIECHV-KANSAS) 2014-2015, $90,000, Children's Mercy Hospital

Rohs, Jovanna - Early Childhood Comprehensive Systems (ECCS), $27,745, Missouri Department of Health and Senior Services
Snider, Karrie - Resilient KC Initiative-HFP, $23,025, KC Chamber of Commerce

Snider, Karrie - Resilient KC Initiative-Health Care Foundation, $37,191, KC Chamber of Commerce

Willis, Derrick - UMKC Disability and Diversity Fellowship Initiative, $25,473, Administration for Community Living

Willis, Derrick - Kansas City Summer Transportation Institute (KCSTI) 2016, $46,841, Missouri Department of Transportation

Libraries

Salvo-Eaton, Jennifer Rose - Dynamic Engagement: Digital and Physical Promotion of a Writing Resources Micro-Collection, $6,308, Amigos Library Services

Rodríguez, Sandy - Support to Send Librarian to DigCCurr Professional Institute: Curation Practices for the Digital Object Lifecycle at UNC-Chapel Hill, $2,184, Missouri State Library

Radio Station

Leone, Nicolas FY2016 Community Service Grant, based on FY2014 AFR, spending period 10/1/2015-9/30/2017, $306,022, Corporation for Public Broadcasting

Leone, Nicolas - 2015-2016 Missouri Public Broadcasting Corporation Special Fund, Passed-through the Missouri Arts Council, $31,790, Missouri Arts Council

Leone, Nicolas - Education and Entrepreneurship News Reporting, $100,000,Ewing Marion Kauffman Foundation

Vestal, Donna Steele - Arts Reporting, $25,000, Vestal, Muriel Mcbrien Kauffman Foundation

Vestal, Donna Steele - Arts Reporting, $25,000, Richard J. Stern Foundation for the Arts

School of Biological Sciences

Biology

Bouyain, Samuel - Protein Tyrosine Phosphatase Signaling in Muscle Maintenance, $162,510, NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases
Dobens, Leonard - Neural Predictors of Self-Regulation of Smoking Urges at a Stressful Moment, $164,213, NIH National Cancer Institute

Dobens, Leonard - Collaborative Proposal To Examine the Expression, Function and Structure of the Tribbiles Gene During Tissue Growth and Proliferation, $164,213, NIH National Cancer Institute

Honigberg, Saul - Mechanisms Underlying Cell-Fate Patterns in Yeast Communities, $49,172, NIH National Institute of General Medical Sciences

Wyckoff, Gerald - Development of Inhibitors of C3 Convertase, $37,750, Kansas State University

Yu, XiaoQiang - Galectins in Bti Tolerance and Resistance in the Mosquito Aedes Aegypti, $415,250, NIH National Institute of Allergy and Infectious Diseases

**School of Computing & Engineering**

*Civil & Mechanical Engineering*

Bloemker, Katherine Hoffman - SP2016 Senior Design Project - Injection Molding Machine, $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

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

Fields, Travis - Gliding-based Aerial Resupply for Humanitarian Relief, $41,499, Naval Postgraduate School

Foutch, Gary - Corporate Sponsored Project, $52,000

Foutch, Gary - Corporate Sponsored Project, $281,541

Foutch, Gary - Viscous Heating Demonstration for Helminth Deactivation, $336,733, Bill And Melinda Gates Foundation

Kevern, John - NCHRP18-17 Entrained Air Void System for Durable Highway Concrete, $25,000, Iowa State University

Kevern, John - Joint Sawing Practices and Effects on Durability, $60,000, Marquette University
Computer Science & Electrical Engineering

Chaudhry, Ghulam M - Multi-Scale Computational Modeling of Carbon Nanostructure Composites, $211,989, National Institute of Standards and Technology

Choi, Baek-Young - Child Tracking and Detection - A Public Safety Application through Mobile Crowd-Sensing, $50,000, NSF Division of Industrial Innovation and Partnerships

Derakhshani, Reza - Corporate Funded Project, $50,760

Dinakarpandian, Deendayal - Designing Software for Motion Compensated Digital Tomosynthesis, $43,470, Children’s Mercy Hospital

Li, Zhu - Corporate Sponsored Project, $50,000

Medhi, Deepankar - TWC: Small: Collaborative: SRN: On Establishing Secure and Resilient Networking Services, $200,000, NSF Division of Computer and Network Systems

Rao, Praveen Ramesh - Scalable Knowledge Management for Risk Analysis in Finance, $50,000, NSF Directorate for Computer & Information Science & Engineering

Song, Sejun - CC*DNI Networking Infrastructure: Data Driven Research-Wise Network Infrastructure Upgrade (DaRWin), $500,000, NSF Directorate for Computer & Information Science & Engineering

Song, Sejun - Efficient Virtual Network Embedding (VNE) Approaches for Heterogeneous Softwarized Networks, $47,036, Electronics & Telecommunications Research

Dean of Computing & Engineering

McCabe, Martha Brook - Girls in Technology Initiative, $15,000, Women’s Foundation of Greater Kansas City

SCE – General

Truman, Kevin - University of Missouri-Kansas City Free Enterprise Center, $1,165,265, Economic Development Administration

School of Dentistry

Dean, School of Dentistry

Friesen, Lynn Roosa - Corporate Funded Project, $2,500

Friesen, Lynn Roosa - Corporate Funded Project, $50,004
Friesen, Lynn Roosa - Corporate Funded Project, $69,420

Nickel, Jeffrey Charles - Jonas Nurse Scholars Program, $25,000, American Association of Orthodontists Foundation

Dental Public Health and Behavioral Science

Simmer-Beck, Melanie - Evaluating the Outcomes of Oral Health Workforce Policy to Increase Access to Dental Providers and Reduce Oral Health Disparities, $486,114, NIH National Institute of Dental and Craniofacial Research

Oral & Craniofacial Sciences

Bonestall, Lynda - Osteocyte Regulation of Bone Muscle with Age, $1,667,655, NIH National Institute on Aging

Dallas, Sarah - Preclinical Analysis of Novel Therapeutic Agents to Enhance Bone Strength in Osteogenesis Imperfecta, $14,000, Kansas City Area Life Sciences Institute

Dallas, Sarah - Multiphoton Microscope Equipment Grant, $600,000, NIH Office of the Director

Nickel, Jeffrey Charles - Joules, Genes and Behaviors: A Multifactorial Assessment of TMD Risk Indicators, $565,535, NIH National Institute of Dental and Craniofacial Research

Ueki, Yasuyoshi - Mechanism of Bone Resorption in Periodontitis, $377,500, NIH National Institute of Dental and Craniofacial Research

Wang, Yong - Corporate Sponsored Project, $44,712

Wang, Yong - Multifunctional, Non-thermal Plasma for Robust Dental Bonding, $187,500, NIH National Institute of Dental and Craniofacial Research

Ortho & Dentofacial Orthopedics

Ferrer, Vesna-Lea Sustiguere - Learning Objectives for Predoctoral Orthodontics Curricular Content in the Level of Growth and Development, $20,000, American Association of Orthodontists Foundation

School of Education

Community Service

Chase, Phyllis - Charter School Sponsor Finance, $727,000, Missouri Department of Elementary and Secondary Education
Collins, Julie Ann - Kansas City Area Supervisor Office, $7,040, Missouri Department of Elementary and Secondary Education

Collins, Julie Ann - Kansas City Regional Professional Development Center Consolidated Contract, $5,000, 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, $53,000, 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 - SPDG (Professional Development), $25,000, Missouri Department of Elementary and Secondary Education

**Counseling & Educational Psychology**

Barber, Carolyn - Arts Participation as Form of Voluntary Association Membership: A Unique Predictor of Adolescents’ Civic Behaviors and Attitudes, $15,000, National Endowment for the Arts

Nilsson, Johanna - Jewish Vocational Service Bureau of Kansas City Jackson Co Mental Health Subcontract, $5,800, Jewish Vocational Service Bureau

**Education General**

Berkel, Laverne - Psychologists Collaborating and Advocating to Restore Equity in Military Communities (PsiCARE-MC): An Integrated Training Program in Behavioral Health Care for Military-Related Communities, $188,075, Health Resources and Services Administration

**Teacher Education & Curriculum Studies**

Nash, Kindel - Investigating High-Leverage Early Literacy Teaching Practices in Four Urban Schools, $47,716, Spencer Foundation
School of Law

Law – General

Wiseman, Judith - Low Income Tax Grant through the IRS, $100,000, Internal Revenue Services

School of Medicine

Allied Health Program

Ervie, Katherine Gale - Physician Assistant Alcohol Education and SBIRT Training Program in Missouri, $68,168, Substance Abuse and Mental Health Services Administration

Anesthesiology Department

Wang, Qiang – Molecular Regulation of Metabotropic Glutamate Receptors in Striatal Neurons, $401,748, NIH National Institute of Mental Health

Basic Medical Sciences

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

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

Biomedical/Health Informatics

Spertus, John - Safe-PCI: Enhancing the Safety of PCI via a Patient-centered Approach to Bleeding, $12,000, Washington University

Venkitachalam, Lakshmi - Health Literacy Workshop for Plain-Language Materials to Improve Blood Pressure Control, $24,388, Missouri Department of Health and Senior Services

Family Medicine

Barnett, Angela - 2015 Sojourner to Healthcare Foundation - Applicant Defined Grant, $43,564, Health Care Foundation of Greater Kansas City

Barnett, Angela - Advancement of Integrative Medicine at UMKC, $10,000, The Weil Foundation

Barnett, Angela - Operating Costs for Sojourner Health Clinic, $33,560, Lazarus Ministries
**Internal Medicine**

**Pauly, Daniel** - Forcing the Molecular Expression of Cardiac Phenotype to Understand Idiopathic Cardiomyopathy, $10,000, Missouri Chapter of the American College of Cardiology

**Baweja, Paramdeep** - Decision Quality for Patients with Coronary Artery Disease, $119,942, 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, $78,472, Tufts University

**Pokharel, Yashashwi** - Frequency and Facility Level Variation in Statin Use in Patients with Diabetes, $2,095, American Medical Association

**Salzmann, Gary** - American Lung Association Asthma Clinical Research Center (ACRC) Core Award FY2016, $75,000, American Lung Association

**Spertus, John** - Sustaining Quality of Life of the Aged: Heart Transplant or Mechanical Support, $75,000, American Lung Association

**Spertus, John** - Genomic Variants Associated with Angina and Health Status Outcome after MI, $18,363, Washington University

**Ophthalmology**

**Koulen, Peter** - Corporate Sponsored Project, $50,000

**Psychiatry**

**Geis, Bill** - "Implementing Zero Suicide-Informed Care: Enhancing the Care System, Clinical Training, Suicide Experts and Sustained Quality Improvement", $160,000, Health Care Foundation of Greater Kansas City

**School of Medicine Research**

**Koulen, Peter** - Novel Mechanistic Targets of Steroid Hormones in the Brain, $290,275, University of North Texas

**Spertus, John** - International Study of Comparative Health Effectiveness with Medical and Invasive Approaches, $51,668, Duke University

**Steele, Mark** - Clinical Utility of Influenza Diagnosis and Laboratory-based Surveillance, $16,871, Johns Hopkins University
School of Nursing & Health Studies

**Nursing-General**

**Abreu, Eduardo Limongi Marques** - Clay County Senior Services Agreement, $2,000, Clay County Senior Services

**Brommelsiek, Margaret** - Improving Fragmentation in Healthcare: Employing Interprofessional Education for Managing Multiple Chronic Conditions in an Urban Setting, $8,496, Health Resources Services Administration

**Cary, Ann** - KC HealthTracks, $500,000, Public Health Services

**Cary, Ann** - Jonas Nurse Scholars Program, $25,000, Jonas Center Nursing Veterans Healthcare

**Cary, Ann** - Consortium for Orthodontic Advances in Science and Technology: Innovators’ Workshops on "Personalized and Precision Orthodontic Therapy", $25,000, Jonas Center Nursing Veterans Healthcare

**Ellington, Erin** - Advancing Clinical Intervention, Prevention, and Treatment for Behavioral Health for Underserved Urban Youth through Interprofessional Primary Care Practice, $232,916, Health Resources Services Administration

**Gotham, Heather** - University of Missouri-Kansas City (UMKC) SBIRT: Increasing the Impact of SBIRT Training across Health Professions, $289,746, Substance Abuse and Mental Health Services Administration

**Gotham, Heather** - SBIRT Health Professions Student Training, $5,761, Substance Abuse and Mental Health Services Administration

**Kelly, Patricia** - Sexual Health Empowerment for Cervical Health and Cancer Prevention, $25,691, University of Kansas Medical Center Research Institute

**Kimble, Susan** - Fostering the Integration of Primary and Behavioral Health Services: Interprofessional Team-Based Care for Rural, Medically Underserved Patients, $985,139, Health Resources Services Administration

**Krom, Laurie** - National CBA Provider Network Resource Center, $1,405,000, Centers for Disease Control and Prevention

**Krom, Laurie** - Addiction Technology Transfer Centers (ATTC) TI-12-008, $376,867, 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, $374,829, Health Resources Services Administration

Russell, Cynthia - SystemCHANGE: An RCT for Medication Adherence in Adult Kidney Transplant Patients, $616,896, NIH National Institute of Diabetes and Digestive Kidney Diseases

Schwarz, Jennifer - Nurse Anesthetist Traineeship Program, $20,904, Health Resources Services Administration

Skarbek, Anita - NWD Grant: Asset Bundles Create Success, $344,804, Health Resources Services Administration

Stilen, Patricia - Region 7 NIDA, $1,106,499, Substance Abuse and Mental Health Services Administration

School of Pharmacy

Pharmacy Practice

Patterson, Mark - Workflow Impact on Medication Errors during Care Transitions between Rural Facilities, $9,750, American Association of Colleges of Pharmacy

Nelson, Leigh Anne - Corporate Sponsored Project, $2,500

Nelson, Leigh Anne - Corporate Sponsored Project, $20,917


Nelson, Leigh Anne - Recovery after an Initial Schizophrenia Episode (RAISE) Early treatment program (ETP), $17,134, The Feinstein Institute for Medical Research

Pharmaceutical Sciences

Cheng, Kun - Targeted Delivery of IKBKE siRNA for Breast Cancer Therapy, $525,000, American Cancer Society

Cheng, Kun - Targeted Delivery of PCBP2 siRNA for Treating Alcoholic Liver Fibrosis, $325,895, NIH National Institute on Alcohol Abuse

Friedman, Simon - Cannula-free and Pump-free Delivery of Insulin using Light, $1,372,629, NIH National Institute of Diabetes and Digestive and Kidney Diseases
**Gutheil, William** - Cannula-free and Pump-free Delivery of Insulin using Light, $213,750, NIH National Institute of Allergy and Infectious Diseases

**Mitra, Ashim** - Corporate Sponsored Project, $119,700

*Pharmacology & Toxicology*

**Kumar, Anil** - Alcohol Abuse and HIV-mediated Neurotoxicity-Companion to 0033642, $339,750, NIH National Institute on Alcohol Abuse

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**UMKC Innovation Center**

*Digital Sandbox KC*

**Meyers, Maria** - Digital Sandbox KC MTC Early Stage Business Grant, $500,000, Missouri Technology Corporation

*KC Artist Inc.*

**Meyers, Maria** - Artist Inc. Regional Program FY2016, $90,000, Mid America Arts Alliance

**Meyers, Maria** - Artist Inc. Regional Program FY2017 and FY2018, $229,980, Mid America Arts Alliance

**Meyers, Maria** - Kauffman Artist Inc. Expansion to Other Regions, $240,000, Ewing Marion Kauffman Foundation

**Meyers, Maria** - FY16 Artist Inc. Online MAC, $15,523, Missouri Arts Council

*KC SourceLink.*

**Meyers, Maria** - Scaleup America Year 2, $304,435, US Small Business Administration

**Meyers, Maria** - KC SourseLink Support, $350,000, Ewing Marion Kauffman Foundation

**Meyers, Maria** - Urban Business Growth Initiative KCMO FY16-FY20, $100,450, City of Kansas City, MO

*Missouri Procurement Tech. Asst.*

**Meyers, Maria** - MO PTAC FY2017, $83,829, Defense Logistics Agency

**Small Business & Technology Development Center**

**Meyers, Maria** - MO SBTDC FY14 Carry Forward, $74,930, US Small Business Administration

**Meyers, Maria** - Missouri Small Business Technology Development Center, $322,758, US Small Business Administration
Innovation Center General

Meyers, Maria - Brush Creek Enterprise Center MO Innovation Center FY16, $262,869, Brush Creek Enterprise Center, Inc.

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

Meyers, Maria - Scaleup America Year 3, $309,040, US Small Business Administration

Whiteboard 2 Boardroom

Meyers, Maria – FY15 MOBEC Whiteboard 2 Boardroom Expansion Year Three, $100,000, Missouri Tech Corp.

National Diversity Award Goes to UMKC Research Associate

Derrick Willis, MA (third from left), received the Multicultural Council Award for Leadership in Diversity in recognition of his employment, education and leadership programs designed for urban and minority youth with and without disabilities.

Image provided by Carol McGinnie, UMKC Institute for Human Development