Normal third larval instar muscles from *Drosophila melanogaster* exhibit a repeated pattern of muscle proteins that are required for normal muscle contraction (left). Muscle degeneration is apparent in a *Drosophila* mutant called *thin* (right). The *thin* locus encodes for a protein orthologous to a human protein (TRIM32), which is defective in patients that have a type of limb-girdle muscular dystrophy. Photo taken by Dr. Erika Geisbrecht, School of Biological Sciences, UMKC.

Office of Research Services
Annual Report
Fiscal Year (FY) 2012
The Office of Research Services is pleased to provide this research/scholarly/creative activity proposal/award report including related compliance and technology transfer information for the period July 1st, 2011 through June 30th, 2012. This report provides information regarding faculty/staff efforts to obtain extramural support, along with a summary of the respective successes for fiscal year 2012.

The Research/Scholarly/Creative Activity funding base at UMKC consists of all awards (grants, contracts, cooperative agreements, memorandums of understanding, etc.) of extramural funds from federal and state agencies, foundations, and various private and industrial organizations, mainly through the competitive grants process. It does not include federal or state appropriated funds, student financial aid, gifts from alumni or other friends of the University, and/or recognition-type awards.

The awarded amounts will not look familiar from previous reports, FY 2008 and before, because these figures have all been adjusted, removing student financial aid from the reported totals.

Extramural funding for FY 2012 was significantly less than for FY 2011. As we explained in last year’s report, the $52M for 2011 is misleading, as there were an unusual number of multi-year awards. Continuing reduced funding, even for proposals in the top 5-8% of submitted proposals for any given competition, plus increased competition among and between the ever-growing number of submitting entities, and the loss of few funded researchers all contributed to the lower number and amounts of funded proposals.

There has been a significant reduction in both the number of submitted proposals and the amount of requested funding relative to the numbers of FY10. Those higher numbers in FY10 did contribute to the record funding in FY11 of $52M.

It must be noted that the level of expenditures has only varied by about $5M, from the lowest to the highest, over the last 5 years, while the level of awards has varied by about $20M over the same range and period. So multi-year awards and high funding success in one year versus another year, changes in timelines for program announcements and funding decisions, and new funding areas versus older interest areas is relatively stabilized by the overall rate of expenditure activity.

The School of Dentistry, the School of Education, the Institute for Human Development, and the School of Computing and Engineering accounted for just over 60% of the total funding for FY 2012. Research accounted for 49% of total funding with 59% coming from all federal sources in contrast with 2011 where research accounted for 57% of total funding and over 77% of the funding was from federal resources. NIH continues to be the largest component of all the funding sectors.

Both the Office of Research Compliance and the Office of Technology Transfer demonstrated increased activity and effectiveness over previous years.
### Funding Comparison

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Award Total</th>
<th>No. of Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY12</td>
<td>$32,349,347</td>
<td>227</td>
</tr>
<tr>
<td>FY11</td>
<td>$52,015,642</td>
<td>310</td>
</tr>
<tr>
<td>FY10</td>
<td>$40,501,940</td>
<td>290</td>
</tr>
<tr>
<td>FY09</td>
<td>$35,553,024</td>
<td>252</td>
</tr>
<tr>
<td>FY08</td>
<td>$38,102,611</td>
<td>264</td>
</tr>
</tbody>
</table>

* This number is slightly higher than expected due to the continuing resolution delays in the federal budget. NIH awarded two awards for some of the projects in years 2-4 of their cycle. The first was at a reduced percentage and the second was an upward adjustment once the final appropriations were enacted.

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

#### 5 Year Summary of Annual Expenditures

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
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<td>$35,165,034</td>
<td>$36,868,341</td>
<td>$37,987,299</td>
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</table>

#### 5 Year Summary of New Awards

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$38,102,611</td>
<td>$35,553,024</td>
<td>$40,501,940</td>
<td>$52,015,642</td>
<td>$32,349,347</td>
</tr>
</tbody>
</table>

#### 5 Yr Summary of Annual Expenditures

![Graph of Annual Expenditures](image)

#### 5 Yr Summary of New Awards

![Graph of New Awards](image)
## University of Missouri - Kansas City

### Office of Research Services

**Pre-Award**

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Proposed Sponsor Total</th>
<th>No. of Submitted Proposals</th>
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</thead>
<tbody>
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<tr>
<td>FY11</td>
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<tr>
<td>FY10</td>
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<td>FY08</td>
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</table>

![Number of Submitted Proposals](image-url)
### Fiscal Year 2012 New Awards

#### Fiscal Year Summary - Distribution of New Awards by CSD (number & Dollar value)

<table>
<thead>
<tr>
<th>Division</th>
<th>Department</th>
<th>Number of Awards</th>
<th>Sum of Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts &amp; Sciences</td>
<td>Arch &amp; Urban Planning</td>
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<td>$45,000</td>
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<tr>
<td></td>
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<td>2</td>
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<tr>
<td></td>
<td>Criminal Justice &amp; Criminology</td>
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<tr>
<td></td>
<td>Economics</td>
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<tr>
<td></td>
<td>English Language &amp; Literature</td>
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<tr>
<td></td>
<td>Geosciences</td>
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<td></td>
<td>History</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>New Letters</td>
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<tr>
<td></td>
<td>Physics and Astronomy</td>
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<tr>
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<td>Psychology</td>
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<td>Radio Station</td>
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### 3 year comparison of new awards

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<th>Department</th>
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<th>FY 2011</th>
<th>FY 2012</th>
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<td></td>
<td>#</td>
<td>Amount</td>
<td>#</td>
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<td>Conservatory of Music</td>
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<tr>
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<td></td>
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<tr>
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<td>Radio Station</td>
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<td>6</td>
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<td></td>
<td>Mid-America ATTC</td>
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<td>$0</td>
<td>0</td>
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<td>Natl Office ATTC</td>
<td>0</td>
<td>$0</td>
<td>0</td>
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<td>12</td>
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<td>Vice Chancellor Student Affrs</td>
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<tr>
<td>Total</td>
<td></td>
<td>290</td>
<td>$40,501,940</td>
<td>310</td>
</tr>
</tbody>
</table>
FY2012 Awards by Purpose

- Instruction: $8,023,723 (25%)
- Research: $15,867,531 (49%)
- Other Sponsored Programs: $8,458,093 (26%)

Total: $32,349,347

FY2012 Awards by Type

- Federal: $19,182,194 (59%)
- State: $4,608,597 (14%)
- Other Universities: $1,785,499 (6%)
- Foundations/Non-Profit: $5,769,870 (18%)
- Business and Industry: $1,003,188 (3%)

Total: $32,349,347
FY12 Federal Agency Awards

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
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<td>NIH Natl Cancer Inst</td>
<td>$226,581</td>
</tr>
<tr>
<td>NIH Natl Center for Research Res</td>
<td>$446,000</td>
</tr>
<tr>
<td>NIH Natl Heart Lung and Blood Inst</td>
<td>$387,140</td>
</tr>
<tr>
<td>NIH Natl Inst of Allergy and Infectious</td>
<td>$879,656</td>
</tr>
<tr>
<td>NIH Natl Inst of Arthritis Musculoskeletal</td>
<td>$1,138,522</td>
</tr>
<tr>
<td>NIH Natl Inst of Dental and Craniofacial</td>
<td>$2,246,052</td>
</tr>
<tr>
<td>NIH Natl Inst of Gen Med Sciences</td>
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<tr>
<td>NIH Natl Inst of Mental Health</td>
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<tr>
<td>NIH Natl Inst on Aging</td>
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<tr>
<td>NIH Natl Inst on Drug Abuse</td>
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<tr>
<td>Health Research Service Administration</td>
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<tr>
<td>Defense Logistics Agency</td>
<td>$80,000</td>
</tr>
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<td>National Science Foundation</td>
<td>$1,341,882</td>
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<tr>
<td>Substance Abuse and Mental Health Services Admin</td>
<td>$861,030</td>
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<tr>
<td>Office of Public Health and Science</td>
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<td>Administration for Children and Families</td>
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<tr>
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<tr>
<td>Other Federal</td>
<td>$3,160,856</td>
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<td><strong>TOTAL FEDERAL</strong></td>
<td><strong>$19,182,194</strong></td>
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</table>
Compliance

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 Adult Health Sciences and Social Sciences Institutional Review Boards (IRB), Institutional Animal Care and Use Committee (IACUC), Institutional Biosafety Committee (IBC), and Radiation Safety Committee (RSC).

**Adult Health Sciences and Social Sciences Institutional Review Boards (IRB)**
The IRB implemented and launched eProtocol, an IRB electronic submission system. eProtocol from Key Solutions is a state-of-the-art web based system for IRB submissions, tracking and communication. This system reduces errors and time while enhancing communication between IRB staff, Reviewers and Investigators. Average SSIRB turn-around time in July 2011 was 40 days reduced to 20 days in June 2012, while increasing the number of total applications from 183 to 240.
Average AHSIRB turn-around time in July 2011 was 42 days reduced to 37 days in June 2012, while increasing the number of total applications from 80 to 98.

**Institutional Animal Care and Use Committee (IACUC)**
The IACUC developed and implemented several new applications forms designed to reduce the amount of paperwork and time invested by investigators in the IACUC review process. These new forms include:
- Minor Amendment Form
- Annual Continuation Forms
In addition, a subcommittee has been working on a new Protocol Application Form (based upon the requirements put forth in the 8th edition of the Guide) which will be launched in early 2013.

**Institutional Biosafety Committee (IBC)**
Consistent with the continued investment in the training of IBC members, this year included an FBI Biosecurity Training Workshop. Tim Quinn, Truman Medical Center, was announced as the new BioSafety Officer on the UMKC IBC.

**Radiation Safety Committee (RSC)**
The RSC will renew the U.S. Nuclear Regulatory Commission (NRC) license. The NRC License authorizes an applicant to conduct any or all of the following activities:
- Construct, operate, and decommission commercial reactors and fuel cycle facilities.
- Possess, use, process, export and import nuclear materials and waste, and handle certain aspects of their transportation.
- Site, design, construct, operate, and close waste disposal sites.
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 2011 as well as the total numbers of active protocols and permits currently maintained by the respective Boards and Committees.

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<tr>
<th>Number of Protocols/Authorized Users (RSC)</th>
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<th>2012</th>
<th>Active</th>
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<td>Adult Health</td>
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<tr>
<td>Social Science</td>
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<td>240</td>
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<td>IACUC</td>
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<td>IBC</td>
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<tr>
<td>RSC (Permits)</td>
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<td>12</td>
<td>37</td>
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</tbody>
</table>
Technology Transfer

The UMKC Office of Technology Transfer 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 license agreements.

During the 2012 fiscal year the UMKC Office of Technology Transfer received 11 invention disclosures, and filed 6 patent applications. The Office also executed 1 option agreement and two license agreements during the 2012 fiscal year.

![Patents Filed Chart](chart.png)
Licenses/Options Executed

Fiscal Year

2008 2009 2010 2011 2012
0 1 0 0 3
FY2012 Awards by College, School, and Department

College of Arts & Sciences

Arch & Urban Planning & Design

**Frisch, Michael** -- HUD Sustainable Communities Regional Planning Grant, $45,000, Mid America Regional Council (MARC)

Chemistry

**Buszek, Keith Richard** -- Center of Excellence in Chemical Methodologies and Libra, $35,648, University Of Kansas Center For Research Inc

**Oyler, Nathan Andrew** -- Structural Facets of the Inhibition of Alzheimer’s Amyloid-ss Oligomers, $156,960, NIH National Institute On Aging

Criminal Justice & Criminology

**Novak, Kenneth J** -- The Kansas City Foot Patrol Project, $61,656.50, Kansas City Missouri Police Department

Economics

**Eaton, Peter James** -- Keep Kansas City Beautiful Litter Index 2012, $7,500, Bridging The Gap

**Eaton, Peter James** -- Poverty Model Simulation Application, $55,000, Mid America Regional Council (MARC)

**Eaton, Peter James** -- Cityscope/Metroscope Health Indicators Project, $65,000, Blue Cross/Blue Shield Of Kansas City

**Sturgeon, James I** -- The Adverse Economic Impact from Repeal of the Prevailing Wage Law in Missouri, $62,105, Council For Promoting American Business

English Language & Literature

**Kline, Katie Maureen** -- Missouri Writing Projects Network-Greater Kansas City Writing Project, $51,304, Missouri Department Of Elementary And Secondary Education

English Language & Literature

**Kline, Katie Maureen** -- 2012-13 Teacher Leadership Development SEED Grant, $20,000, National Writing Project Corporation

Geosciences

**Gentile, Richard Joseph** -- Geological Exhibit, $25,000, William T Kemper Foundation
Lee, Jejung -- Interactions and Feedbacks between Biomass Burning and Water Cycle Dynamics across the Northern Sub-Saharan African (NSSA) Region, $89,177, NASA Goddard Space Flight Center

Murowchick, James -- Acquisition of a Compact Scanning Electron Microscope System for Teaching and Research in Geosciences, $208,700, NSF Division Of Earth Science

History

Burke, Diane Louise Mutti -- Crossroads of Conflict: Contested Visions of Freedom and the Missouri-Kansas Border Wars, $179,882, National Endowment For The Humanities

Mathematics

Sega, Liana Mihaela -- Homological Behavior of Modules over Commutative Local Rings, $85,843, NSF Division of Mathematical Sciences

New Letters

Stewart, Robert J -- New Letters: Strategic Assistance, $29,288, Missouri Arts Council

Stewart, Robert J -- BKMK Press: Strategic Assistance, $15,282, Missouri Arts Council

Physics and Astronomy

Brodwin, Mark -- IRAC Imaging of SPT Clusters, $5,025, JET PROPULSION LAB

Brodwin, Mark -- Formation and Evolution of Massive Galaxies in the Riche, $70,014, Space Telescope Science Institute

Brodwin, Mark -- IRAC Imaging of SPT Clusters, $43,190, Jet Propulsion Lab

Brodwin, Mark -- The Most Massive, High Redshift Clusters in the Universe AND The SPT-Spitzer Deep Field, $133,600, Jet Propulsion Lab

Caruso, Anthony Nicholaus -- High Efficiency Solid State Neutron Detector And Spectrometer, $57,225, Office Of Naval Research

Caruso, Anthony Nicholaus -- High Efficiency Solid State Neutron Detector Demonstration, $50,000, Office Of Naval Research

Ching, Wai Yim -- Relationship of Theoretical Nano-scale Structure/Properties of Calcium Silicate Hydrate (CSHY) and Experimental Micro-scale Properties of Cement Paste, $32,136, University Of Kansas Center For Research INC


**Psychology**

**Aupperle, Robin L** -- Pilot Study Investigating Effects Of Cognitive Training for PTSD, $5,980, University Of Kansas Medical Center Research Institute, INC

**Berkley-Patton, Jannette** -- HIV Testing in African American Churches, $157,169, NIH National Institute Of Mental Health

**Bruce, Amanda Schurle** -- The Neuroeconomics Of Controversial Food Technologies, $155,909, Oklahoma State University

**Bruce, Amanda Schurle** -- Food For Thought: Can Stomach Surgery Change The Brain?, $24,645, University Of Kansas Medical Center Research Institute, INC

**Bruce, Amanda Schurle** -- A Randomized Control Trial Of Amitriptyline For Chronic Oral Food Refusal, $15,483, University Of Kansas Medical Center Research Institute, INC

**Bruce, Amanda Schurle** -- The Neuroeconomics Of Controversial Food Technologies, $156,581, Oklahoma State University

**Bruce, Jared M** -- Improving Medication Adherence in Multiple Sclerosis, $28,000, University Of Kansas Medical Center Research Institute, INC

**Catley, Delwyn** -- The Role of Implicit Attitudes in a Motivational Smoking Cessation Intervention, $35,000, University Of Kansas Cancer Center

**Catley, Delwyn** -- Can Motivational Interviewing Be Effective For Smoking Cessation?, $226,581, NIH National Cancer Institute

**Goggin, Kathleen** -- Multi-Site Collaborative Study For Adherence, Virologic And Clinical Outcomes, $17,550, University Of California Los Angeles

**Goggin, Kathleen** -- Multi-Site Collaborative Study For Adherence, Virologic And Clinical Outcomes, $17,550, University Of California Los Angeles

**Lundgren, Jennifer D** -- Functional Neuroanatomy of Impulsivity in Obese Shorter and Longer Sleepers, $25,770, University Of Kansas Medical Center Research Institute, INC

**Martinez, David Alfonso** -- HIV Stigma Reduction And Screening In The Hispanic/Latin Church Setting, $42,232, NIH National Institute Of Mental Health

**Murdock, Tamera B** -- Technical Assistance for Kansas and Missouri: Student Mobility, State Assessment Predictive Qualities for College Performance, and Educator Preparation, $17,534, University Of Kansas Center For Research INC

**Murdock, Tamera B** -- STEM Alliance Evaluation, $30,430, University Of Kansas Center for Research

**Murdock, Tamera B** -- Math Work: Transitions from High School to Postsecondary, $66,052, Kansas State University
Murdock, Tamera B -- Math Work: Transitions from High School to Postsecondary, $62,729, Kansas State University

Murdock, Tamera B -- KC-AERC: Transition to Post Secondary Education, $118,180, University Of Kansas Center For Research

Social Work

Neuman, Dale -- Title IV-E Training Grant, $128,330, Missouri Department Of Social Services

Conservatory of Music & Dance

Gibson, Mara B -- Conservatory in the Schools with Daniel Bernard Roumain (DBR), April 13-14, 2012, $2,500, Missouri Arts Council

Gibson, Mara B -- UMKC Conservatory in the Schools, $65,000, National Endowment For The Arts

Institute for Human Dev

Calkins, Carl F -- A National Gateway To Self-Determination-5 Year, $800,000, Children And Family Services

Calkins, Carl F -- Core 5 Year Application FY2013-FY2017 DHHS, $554,000, Administration For Children And Families

Calkins, Carl F -- People First Of Missouri FY2013, $35,000, Missouri Planning Council For Devevelopmental Division

Calkins, Carl F -- ACED Project 2012, $217,646, Developmental Disability Services Of Jackson County-EITAS

Fuger, Kathryn L -- Program Administration Scale (PAS) 2011-2012, $12,500, Mid America Regional Council (MARC)

Fuger, Kathryn L -- Early Childhood Comprehensive System (ECCS) 2011-2012, $90,533, Missouri Department Of Health And Senior Services

Fuger, Kathryn L -- Accreditation Facilitation Project, $18,911, Missouri Department Of Social Services

Fuger, Kathryn L -- Start Up And Expansion Project FY2012, $43,427, Missouri Department Of Social Services

Fuger, Kathryn L -- Kansas Home Visitation Project, $135,000, Childrens Mercy Hospital

Fuger, Kathryn L -- Out Of School Time Quality Matters 2012, $35,916, United Way Of Greater Kansas City

Fuger, Kathryn L -- Quality Matters-FY2011, $3,311.81, United Way Of Greater Kansas City

Fuger, Kathryn L -- Quality Matters-FY2011, $7,097.08, United Way Of Greater Kansas City

Fuger, Kathryn L -- Abandoned Infants Assistance Cross-Site Evaluation, $150,000, University Of California Berkeley
Fuger, Kathryn L -- Missouri Head Start-State Collaboration Office Needs Assessment, $7,531, Missouri Department Of Elementary And Secondary Education

Gotto IV, George Swift -- Partnership For Hope, $148,012, Missouri Department Of Mental Health

Horn, William F -- Kansas ICS 2011-2012, $3,000, Kansas Department Of Health & Environment

Horn, William F -- USDA Programs Among Hispanic And Latino Farmers And Ranchers, $22,860, Center For Rural Affairs In Nebraska

Horn, William F -- Money Follows The Person Implementation Support 2011-2016, $0, Missouri Department Of Social Services

Jenson, Ronda Jean -- MIM Implementation Facilitator Supervision 2011-2012, $361,381, Missouri Department Of Elementary And Secondary Education

Jenson, Ronda Jean -- MIM Development 2011-2012, $156,755.98, Missouri Department Of Elementary And Secondary Education

McVeigh, Thomas F -- Aging And Disability Resource Center 2011-2012, $90,440.36, Missouri Department Of Health And Senior Services

McVeigh, Thomas F -- Hospital Discharge 2011-2012, $38,702.91, Missouri Department Of Health And Senior Services

McVeigh, Thomas F -- Traumatic Brain Injury (TBI) Implementation Partnership Grant 2009-2010, $154,418, Missouri Department Of Health And Senior Services

McVeigh, Thomas F -- Missouri Transition To Employment Collaborative 2011-2016, $438,000, Administration For Children And Families

McVeigh, Thomas F -- Tips 4 Kids-Lend-Years 1-5, $57,481, Health Resource Service Administration

McVeigh, Thomas F -- Tips 4 Kids-Lend-Years 1-5, $57,481, Health Resource Service Administration

Peterson-Besse, Jana Joanne -- Hispanic Needs Assessment 2012, $70,786, Mattie Rhodes Center

Peterson-Besse, Jana Joanne -- DRRP: Health And Health Care Disparities Among Individuals With Disabilities, $25,000, University Of New Hampshire

Peterson-Besse, Jana Joanne -- Project Intersect: Health Disparities At The Intersection Of Race, Ethnicity, And Disability [An AUCD-NCBDDD Research Topic Of Interest (RTOI)], $2,320, Oregon Health Science University

Reynolds, Michelle C -- Missouri Family To Family Health Information Center, $95,700, Health Resource Service Administration

Reynolds, Michelle C -- Americorps TA 2012, $76,141, Missouri Department Of Economic Development

Reynolds, Michelle C -- Enhancing Pediatric Care Coordination For CYSHCN Through Parent To Parent Mentoring, $86,500, Health Resource Service Administration
Reynolds, Michelle C -- MODDRC/F2F FY2012, $90,000, Missouri Planning Council For Development Division

Reynolds, Michelle C -- Family Support MODDD, $114,781, Missouri Department Of Mental Health

Willis, Derrick Keith -- Youth With Disabilities/ARTSTECH, $105,000, ArtsTech

Willis, Derrick Keith -- Kansas City Summer Transportation Institute 2012, $55,000, Missouri Department Of Transportation

Willis, Derrick Keith -- EITAS Project Evaluation 2011-Willis, $7,500, City Of Kansas City Missouri

Radio Station

Anderson, William G -- Irish Fest Thistle Shamrock, $1,000, Kansas City Irish Festival

Cahill, Patricia Deal -- Community Service Grant ENDING 9/30/2013, $275,981, Cororationp For Public Broadcasting

Spencer-Morris, Laura Reese -- FY12 Mac Arts Funding, $5,000, Missouri Arts Council

Research

UMKC Innovation Center

Meyers, Maria E -- Missouri Procurement Technical Assistance Center, $80,000, Defense Logistics Agency

Meyers, Maria E -- Jobs and Innovation Accelerator Challenge, $149,500, United States Small Business Administration

Meyers, Maria E -- IT and Advanced Manufacturing Jobs and Innovation Accelerator Challenge, $100,000, Mid America Regional Council (MARC)

Meyers, Maria E -- Missouri Small Business Technology Development Center, $131,118, United States Small Business Administration

Meyers, Maria E -- Brush Creek Enterprise Center Missouri Innovation Center, $63,892, Brush Creek Enterprise Center, INC.

Meyers, Maria E -- American Free Enterprise Project Partnership, $2,000, SIFE USA

Meyers, Maria E -- IT and Advanced Manufacturing Jobs and Innovation Accele, $100,000, MID AMERICA REG COUNCIL (MARC)

Meyers, Maria E -- Google Fiber, $24,000, Mid America Regional Council (MARC)
School of Biological Sciences

*Biochemistry - General*

**Biersmith, Bridget Hope** -- Establishing the Roles of Dock Family Members in Heart Development, $26,000, American Heart Association

**Biersmith, Bridget Hope** -- Establishing the Roles of Dock Family Members in Heart Development, $26,000, American Heart Association

**Bouyain, Samuel Eric Andre** -- Structural And Biochemical Studies Of Protein Tyrosine Phosphatase Function, $237,600, NIH National Institute Of General Medical Science

**Dobens, Leonard** -- Coordination Of Replication And Migration In An Epithelial Sheet, $131,001, NSF Division Of Integrative Organismal System

**Geisbrecht, Brian V** -- A Mechanism for Shigella Type III Secretion Activation, $63,500, Oklahoma State University

**Geisbrecht, Brian V** -- Structure Function Analysis of Staphylococcal Complement Inhibitors, $300,401, NIH National Institute Of Allergy And Infectious Disease

**Geisbrecht, Erika Rae** -- The Role of Protein Turnover in a Drosophila Model of Muscle Atrophy, $72,000, NIH National Institute Of Arthritis Musculoskeletal

**Huang, Chi Ming** -- Alcohol And Cerebellar Circuits, $68,400, University Of New Mexico

**Idnurm, Alexander** -- Antifungal Drug Target Prioritization Using Cryptococcus Neoformans, $221,721, NIH National Institute Of Allergy And Infectious Disease

**McCluskey, Kevin** -- RCN: A Community Of Ex Situ Microbial Germplasm Collections, $92,250, NSF Director of Biological Science

**Plamann, Michael D** -- Control Of Dynein Transport By Cellular Factors, $30,600, University Of Central Florida

**Plamann, Michael D** -- Functional Analysis and Systems Biology of Filamentous Fungi, $70,054, Dartmouth College

**Plamann, Michael D** -- Request For Long-Term Support From The LSC Program For The Operation Of The Fungal Genetics Stock Center, $6,000, NSF Director Of Biological Science

**Plamann, Michael D** -- Request For Long-Term Support From The LSC Program For The Operation Of The Fungal Genetics Stock Center, $344,351, NSF Director Of Biological Science

**Price, Jeffrey** -- Novel Circadian Mutant of Drosophila, $302,801, NIH National Institute Of General Medical Science
School of Computing & Engr

Civil & Mechanical Engr

**Guess, Trent M** -- Subject Specific Concurrent Simulation of Movement and Natural Knee Contact Mechanics, $0, NIH National Institute Of Arthritis Musculoskeletal

**Guess, Trent M** -- Subject Specific Concurrent Simulation of Movement and Natural Knee Contact Mechanics, $0, NIH National Institute Of Arthritis Musculoskeletal

**Guess, Trent M** -- Subject Specific Concurrent Simulation of Movement and Natural Knee Contact Mechanics, $444,150, NIH National Institute Of Arthritis Musculoskeletal

**Kevern, John T** -- Concrete, $15,750, Corp Sponsor

**Kevern, John T** -- Concrete, $15,000, Corp Sponsor

**Kevern, John T** -- in Missouri DOT Two-Lift Highway Construction Demonstration, $107,159, Iowa State University

**McClernon, Mark Francis** -- Spring 2012 Senior Design Project, $500, Corp Sponsor

**McClernon, Mark Francis** -- Spring 2012 Senior Design Project, $500, Corp Sponsor

**McClernon, Mark Francis** -- Spring 2012 Senior Design Project, $500, Corp Sponsor

**Obannon, Deborah Jean** -- Stormwater, $110,050, Corp Sponsor

Comp Sci & Elec Engr

**Beard, Cory C** -- Quality of Service & Service Availability in Mission Critical Service-Oriented Architectures - An Analysis of the FAA NextGen SWIM Architecture, $19,191, Department Of Transportation

**Beard, Cory C** -- Quality of Service & Service Availability in Mission Critical Service-Oriented Architectures - An Analysis of the FAA NextGen SWIM Architecture, $20,809, Department Of Transportation

**Derakhshani, Reza** -- Biometric Analysis, $10,267, Corp Sponsor

**Medhi, Deepankar** -- Multi-Layer Reconfigurable Network Design and Optimization, $69,000, NSF Division Of Computer & Network Systems

Dean of Computing & Engr

**Truman, Kevin Zane** -- KC STEM Alliance, $500,000, Ewing Marion Kauffman Foundation

**Truman, Kevin Zane** -- KC STEM Alliance, $600,000, Ewing Marion Kauffman Foundation

**Truman, Kevin Zane** -- KC STEM Alliance, $650,000, Ewing Marion Kauffman Foundation

**Truman, Kevin Zane** -- KC STEM Alliance, $700,000, Ewing Marion Kauffman Foundation
Truman, Kevin Zane -- KC STEM Alliance, $750,000, Ewing Marion Kauffman Foundation

School of Dentistry

Dean, School of Dentistry

Cobb, Charles Madison -- Business/Industry Sponsored, $44,819.73, Corp Sponsor

Friesen, Lynn Roosa -- Business/Industry Sponsored, $96,540.83, Corp Sponsor

Pyle, Marsha Agnes -- The Dr. Charles Dunlap Innovation Clinic, $87,091, Stanley H Durwood Foundation

Pyle, Marsha Agnes -- The Dr. Charles Dunlap Innovation Clinic, $87,090, Stanley H Durwood Foundation

Pyle, Marsha Agnes -- The Dr. Charles Dunlap Innovation Clinic, $87,091, Stanley H Durwood Foundation

Dental Hygiene

Branson, Bonnie S -- Miles of Elder Smiles, $97,263, Health Care Foundation Of Greater Kansas City

Simmer-Beck, Melanie Lea -- State of Kansas Department of Health and Environment, $10,000, Kansas Department Of Health & Environment

Simmer-Beck, Melanie Lea -- Miles of Smiles, $88,680, Reach Healthcare Foundation

Dental Instruction - DDS

Dallas, Sarah L -- Dynamics of Assembly of Bone Matrix Proteins, $324,000, NIH National Institute Of Arthritis Musculoskeletal

Johnson, Mark L -- The Role of LRP5 in Bone Response to Mechanical Loading, $298,371, NIH National Institute Of Arthritis Musculoskeletal

Oral Biology

Bonewald, Lynda F -- Osteocyte Regulation of Bone/Muscle with Age, $1,706,979, NIH National Institute On Aging

Bonewald, Lynda F -- Gradient-based Strategy for Osteochondra Regeneration, $18,000, University Of Kansas Center For Research INC

Dallas, Sarah L -- Zeiss LSM 710 Confocal Microscopy System For Imaging Of Mineralized Tissues, $446,000, NIH National Center For Research Resources

Eick, J David -- Bone Repair and Military Readiness, $488,427, US Army Medical Research And Material Command

Eick, J David -- Bone Repair and Military Readiness, $560,573, US Army Medical Research And Material Command
McGuire, Jacob D -- The Effect Of Radiotherapy On Enamel Associated Proteins, $66,234, NIH National Institute Of Dental And Craniofacial

Nickel, Jeffrey Charles -- Joules, Genes and Behaviors: A Multifactorial Assessment of TMD Risk Indicators, $661,449, NIH NATL INST OF DENTAL AND CRANIOFACIAL

Nickel, Jeffrey Charles -- Joules, Genes and Behaviors: A Multifactorial Assessment of TMD Risk Indicators, $595,869, NIH National Institute Of Dental And Craniofacial

Ueki, Yasuyoshi -- Molecular and Cellular Pathogenesis of Cherubism, $371,250, NIH National Institute Of Dental And Craniofacial

Walker, Mary P -- Understanding The Mechanism Of Radiotherapy-induced Dentition Breakdown, $363,750, NIH National Institute Of Dental And Craniofacial

Wang, Yong -- 3 D In Vivo Morphometry Of Trabecular Microstructure, $90,110, University Of California Davis

Wang, Yong -- Analysis of Bone Osteocytes, $8,400, Corp Sponsor

Wang, Yong -- Multifunctional, Non-thermal Plasma for Robust Dental Bonding, $187,500, NIH National Institute Of Dental And Craniofacial

School of Education

Community Service

Cooper, Jerry L -- Charter School Sponsor Finance, $761,391, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Special Education Consultants, $800,000, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Migrant English Language Learner, $94,413, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Migrant English Language Learners-Title II, $134,093, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Professional Learning Communities, $300,000, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Kansas City Area Supervisor Office 2011-2012, $4,999.99, Missouri Department Of Elementary And Secondary Education

Kostner, Linda Carol -- Missouri School Improvement Grant Project (MOSIG), $190,017, Missouri Department Of Elementary And Secondary Education

Nilsson, Johanna E -- Rose Brooks Center Jackson Co. Mental Health Subcontract-IWI, $2,700, Rose Brooks Center
School of Education

Barber, Carolyn Elizabeth -- Understanding the Social Context of Adv Placement Part, $0, American Educational Research Association

Barber, Carolyn Elizabeth -- Understanding the Social Context of Adv Placement Participation, $30,000, American Educational Research Association

Barger, Rita S -- Exceptional Collaboration for English Language Learning (EXCELL), $277,949, US Department Of Education

Odom, Arthur Louis -- Science in Cycles of Observation, Reasoning & Experiment in Kansas City (SCORE-KC), $159,870.5, Missouri Department Of Higher Education

Vartuli, Sue -- St Mark Child & Family Development Center Program Evaluation, $36,808, Development Systems INC

Vartuli, Sue -- Mid-America Head Start Coaching Research Project, $21,000, Mid America Regional Council (MARC)


School of Law

Brooks, Delanora V -- The Discover Law Prelaw Scholars Program (DLPP), $100,000, Law School Admission Council


School of Management

Public Affairs

Never, Brent Ryan -- The Geography of Nonprofit Financial Vulnerability: Supply and Demand of Essential Human Services, $8,899, Indiana University

Never, Brent Ryan -- The Geography of Nonprofit Financial Vulnerability: Supply and Demand of Essential Human Services, $9,754, Indiana University

Renz, David O -- Non-Profit Leadership Program, $23,674, Missouri Department Of Social Services

Renz, David O -- Veterans Transportation And Community Living Initiative, $10,000, Mid America Regional Council (MARC)
School of Medicine

Basic Medical Sciences

Chu, Xiangping -- Targeting Acid-Sensing Ion Channel 1A To Prevent Drug Addiction, $187,500, NIH National Institute On Drug Abuse

Deng, Hong-Wen -- Identification Of Proteins Important For Male Osteoporosis, $1, NIH National Institute Of Arthritis Musculoskeletal

Fu, Mingui -- The Role Of MCPIP1 In Regulating NF-KB Signaling And Macrophage Activation, $225,000, NIH National Heart Lung And Blood Institute

Koulen, Peter -- Mechanisms Of Cognitive Decline During Aging-Project 3: INTRACELLULAR CA2+ Signaling And Brain Aging, $251,991.65, University Of North Texas

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

Silswal, Neerupma -- Regulation Of Intracellular CA2+ BY PI(3,5)P2: A Novel Pathway For Control Of Vascular Smooth Muscle Contraction, $46,796, American Heart Association

Wang, Qiang -- Molecular Regulation Of Metabotropic Glutamate Receptors In Striatal Neurons, $371,250, NIH National Institute Of Mental Health

Wang, Qiang -- Glutamate Receptors And Postoperative Cognitive Dysfunction, $12,618, St Lukes Hospital

Wang, Qiang -- Glutamate Receptors And Postoperative Cognitive Dysfunction, $12,382, St Lukes Hospital

Wang, Qiang -- Metabotropic Glutamate Regulation Of Amphetamine Action, $321,940.89, NIH National Institute On Drug Abuse

Dean, School of Medicine

Barnett, Angela L -- Sojourner Safety Net Clinic 2012, $40,850, Reach Healthcare Foundation

Gerkovich, Mary M -- Qualitative Research Support For Study Of Clinical Pharmacists' Roles, Responsibilities, And Impact, $9,741, American College Of Clinical Pharmacy

Medicine - General

Spertus, John -- Cardiovascular Outcomes Research Training Program, $162,140, NIH National Heart Lung And Blood Institute

School of Medicine Research

Salzman, Gary A -- Asthma Clinical Research Center - Core Year 5, FY 2012, $75,000, American Lung Association
**Salzman, Gary A** -- LASST Study – Long-Acting Beta Agonist Step Down Study, $122,642, American Lung Association

**Spertus, John** -- International Study Of Comparative Health Effectiveness With Medical And Invasive Approaches, $18,348, Duke University

**Spertus, John** -- Heartland Institute For Clinical And Translational Research (HICTR) Personalized Medicine And Outcomes Center (PMOC), $102,638, University Of Kansas Medical Center Research Institute, INC

**Spertus, John** -- Genomic Variants Associated With Angina And Health Status Outcome After Mi, $19,620, Washington University

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**School of Nursing**

*Mid-America ATTC*

**Gotham, Heather J** -- Joint Meeting For Adolescent Treatment Effectiveness, $18,015, JBS International INC

**Stilen, Patricia L** -- NIDA/SAMHSA Blending Research And Programatic Supplement 2011-2012, $100,000, Substance Abuse And Mental Health Services Association

*Natl Office ATTC*

**Gotham, Heather J** -- Dissemination of SBIRT Residency Training in Missouri, $36,030, Substance Abuse And Mental Health Services Association

**Krom, Laurie Jean** -- Center for Substance Treatment (CSAT), $550,000, Substance Abuse And Mental Health Services Association

**Krom, Laurie Jean** -- Primary Care For Substance Abuse Curriculum Project, $130,000, National Council For Community Behavioral Health

**Krom, Laurie Jean** -- SAMHSA-NIDA Blending Supplement 2011-2012, $100,000, Substance Abuse And Mental Health Services Association

**Krom, Laurie Jean** -- MAT Supplement 2011-12, $75,000, Substance Abuse And Mental Health Services Association

*Nursing - General*

**Enriquez, Maithe** -- What College Women Know, Think And Do About HPV and HPV Vaccine, $3,495, American Nurses Foundation

**Kelly, Patricia Jane** -- Understanding the Cervical Cancer Health Gap for Women in Jail, $9,971, University Of Kansas Medical Center Research Institute, INC

**Kelly, Patricia Jane** -- Jonas Nurse Leaders Scholars Program, $5,000, Jonas Center For Nursing Excellence

**Kelly, Patricia Jane** -- Jonas Nurse Leaders Scholars Program, $5,000, Jonas Center For Nursing Excellence
Kimble, Susan J -- Adult Weight Management Project, $5,485.35, American Society For Metabolic And Bariatric Sur

Wilson, Thad R -- Nurse Faculty Loan Program, $13,721, Health Resource Services Administration

Wilson, Thad R -- Nursing Education Incentive Program, $83,596, Missouri Department Of Higher Education

Witt, Jacquelyn S -- Family Planning Clinical Training Cooperative Agreement, $72,3520.51, Office Of Public Health And Science

School of Pharmacy

Pharmaceutical Sciences

Friedman, Simon H -- Chemical Methods to Control RNA Interference with Light, $355,000, NSF Division Of Chemistry

Gutheil, William G -- Pancreatic Cancer: Crocetin as a Novel Therapeutic Approach, $32,826, University Of Kansass Medical Center Research Institute, INC

Mitra, Ashim K -- Controlled Delivery, $58,170, Corp Sponsor

Youan, Bi Botti Celestin -- Prevention of HIV/AIDS by Stimuli-Sensitive Nanomedicine, $357,534, NIH National Institute Of Allergy And Infectious Disease

Pharmacology & Toxicology

Kumar, Anil -- HIV, Drug Abuse and Neurotoxicity, $286,169, NIH National Institute On Drug Abuse

Kumar, Anil -- 1RD Methamphetamine and AIDS in A Non-Human Primate Model, $1, NIH Naional Institute On Drug Abuse

Kumar, Santosh -- Tobacco/Nicotine, Cytochrome P450, and HIV-1, $118,500, NIH National Institute On Drug Abuse

McArthur, Carole P -- Tobacco/Nicotine, Cytochrome P450, and HIV-1, $69,000, NIH National Institute On Drug Abuse

Pharmacy Practice

Kuehl, Peggy G -- Community Pharmacy Residency Expansion Project - Red Cross, $10,000, National Association Of Chain Drug Stores Foundation

Kuehl, Peggy G -- Community Pharmacy Residency Expansion Project - Red Cross, $25,000, National Association Of Chain Drug Stores Foundation

Kuehl, Peggy G -- Community Pharmacy Residency Expansion Project - Red Cross, $15,000, National Association Of Chain Drug Stores Foundation
Liu, Yifei -- Conducting Survey Research, $50,000, Corp Sponsor

Nelson, Leigh Anne -- A Multicenter Study, $309,870, Corp Sponsor

Nelson, Leigh Anne -- Recovery After an Initial Schizophrenia Episode (RAISE), $5,1492.15, The Feinstein Institute for Medical Research

VC Administration & Finance

Admin Affairs Campus Fac Mgmt

Johnston, Rhonda Kay -- UMKC Bicycle Safety Education and Support, $36,263, Missouri Department Of Transportation

Bongartz, Michael -- PROJECT BLUE CARRIER PIGEON, $7,738.88, Missouri Department Of Public Safety

Vice Chancellor Student Affrs

Center for Academic Developmen

El-Scari, Natasha Ria -- Upward Bound, $290,700, US Department OF Education

Stone, Marion Elizabeth -- Jumpstart, $125,033, Jumpstart
University of Missouri Research Board Awards FY 2012
College of Arts and Sciences

Chemistry
Chen, Xiaobo -- Development Of A Novel Photocatalytic System To Produce Hydrogen From Water, $33,000, UMRB

Communication Studies
Elliot, Lyn -- Matched: A Short Film, $10,000, UMRB

Gutenko, Gregory -- Albrecht-Kemper Museum of Art Exhibition, $10,000, UMRB

English
Blanton, Virginia -- Nuns' Literacies in Medieval Europe, $32,967, UMRB

Foreign Languages
Baker, Kenneth -- Enacting History, $15,000, UMRB

Villamandos, Alberto -- El Discreto Encanto De La Subversion: Una Critica Cultura De La Gauche Divine, $8,095, UMRB

Geosciences
Driever, Steven -- Writing the World: Harry A. Frank, Prince of Vagabonds, $8,000, UMRB

Mathematics
Chen, Jie -- Change Point Methods for Estimation of CNV Regions in Next-Generation Sequencing Data, $13,500, UMRB

Psychology
Aupperle, Robin -- Effects of Executive Function Training in PTSD, $40,000, UMRB

Physics
Rulis, Paul -- An Evolutionary Approach to Microstructure Predictions, $22,000, UMRB

School of Biological Sciences
Yao, Xiaolan -- Structure And Dynamic Basis Of Ceramide Transfer, $40,000, UMRB

Yu, Xiao-Qiang -- A Toll-ML Signaling Pathway in Insect Innate Immunity, $49,086, UMRB
Scanning electron micrograph of a fiber optic cable showing the core and cladding of the fiber. The micrograph was taken by Burla Travis, an undergraduate Physics student. Produced at the UMKC, School of Dentistry, Electron Microscope Laboratory by Burla Travis and Vladimir M. Dusevich, Ph.D.