The awards detailed in this list were processed February 1, 2009 through February 28, 2009. The dollar values depict the best available estimate of the funding the University should receive over the life of the award. These values may be modified, as additional data become available relative to future funding prospects. These modifications are not reported in the attached list. As a result, the dollar values of awards presented in this list will differ from the year-end totals. The full amount of an award is recorded in the year in which it was received. Often these funds are expended over several years, making comparisons between awards and expenditures somewhat misleading. Research expenditures are presented here to provide a trend line for the current fiscal year.

<table>
<thead>
<tr>
<th></th>
<th>Number of Awards FY 2008</th>
<th>Number of Awards FY 2009</th>
<th>% Change</th>
<th>Value of Awards FY 2008</th>
<th>Value of Awards FY 2009</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Awards Processed</td>
<td>194</td>
<td>182</td>
<td>(6.2%)</td>
<td>$50,625,640</td>
<td>$66,754,535</td>
<td>31.9%</td>
</tr>
<tr>
<td>Research Awards</td>
<td>138</td>
<td>132</td>
<td>(4.3%)</td>
<td>$44,546,871</td>
<td>$57,269,884</td>
<td>28.6%</td>
</tr>
<tr>
<td>Research Training</td>
<td>9</td>
<td>7</td>
<td>(22.2%)</td>
<td>$3,274,435</td>
<td>$662,339</td>
<td>(79.8%)</td>
</tr>
<tr>
<td>Other Sponsored Activity</td>
<td>47</td>
<td>43</td>
<td>(8.5%)</td>
<td>$2,804,334</td>
<td>$8,822,312</td>
<td>214.6%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Total Awards Processed</th>
<th>Number of Awards FY 2008</th>
<th>Number of Awards FY 2009</th>
<th>% Change</th>
<th>Value of Awards FY 2008</th>
<th>Value of Awards FY 2009</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal Year to Date</td>
<td>1,764</td>
<td>1,763</td>
<td>(0.1%)</td>
<td>$634,350,009</td>
<td>$715,830,949</td>
<td>12.8%</td>
<td></td>
</tr>
<tr>
<td>Research Awards</td>
<td>1,273</td>
<td>1,294</td>
<td>1.6%</td>
<td>$579,679,349</td>
<td>$640,860,548</td>
<td>10.6%</td>
<td></td>
</tr>
<tr>
<td>Research Training</td>
<td>88</td>
<td>61</td>
<td>(30.7%)</td>
<td>$24,824,955</td>
<td>$19,329,887</td>
<td>(22.1%)</td>
<td></td>
</tr>
<tr>
<td>Other Sponsored Activity</td>
<td>403</td>
<td>408</td>
<td>1.2%</td>
<td>$29,845,705</td>
<td>$55,640,514</td>
<td>86.4%</td>
<td></td>
</tr>
</tbody>
</table>

While the number of awards processed in February 2009 has dropped slightly when compared with February 2008 the total dollar value has increased. There were five more awards valued at $1.0 million or higher processed in February 2009 then processed in the previous fiscal year. In February 2009, the largest award was valued at $11.4 million, in February 2008 the largest was valued at $4.4 million.
<table>
<thead>
<tr>
<th></th>
<th>Federal Expendable Restricted</th>
<th>Other Funds</th>
<th>Total Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2009</td>
<td>$373,028,936</td>
<td>$169,645,078</td>
<td>$542,674,014</td>
</tr>
<tr>
<td>January 2008</td>
<td>$359,826,102</td>
<td>$137,414,527</td>
<td>$497,240,629</td>
</tr>
<tr>
<td>Percent Change</td>
<td>3.7%</td>
<td>23.5%</td>
<td>9.1%</td>
</tr>
</tbody>
</table>

Source: Division of Research Development and Administration
Data Source: Division of Research Development and Administration
PROJECTS ESTABLISHED FOR RESEARCH AND OTHER SPONSORED ACTIVITIES

February 1, 2009 through February 28, 2009

The projects listed here by sponsor were established during the month designated in the heading above. For each project, the listing includes the project title, the project director (and his or her unit affiliations), faculty or primary research staff participating in the project (and their unit affiliations), the amount awarded for the period, and the project period. NOTE: When more than one unit is listed for the project director, the unit responsible for the project is given first.

**Acorn Cardiovascular, Inc.**
UMCC 2008.044: A Double-blind, Randomized Phase 2b Study of Sorafenib Compared to Placebo When Administered in Combination with Chemotherapy for Patients with Locally Advanced or Metastatic Breast Cancer that has Progressed During or After Bevacizumab The JEFFREY B SMERAGE (Int Med-Hematology/Oncology)
$404,526 01/28/09 - 01/27/14

**Actelion**
Double-blind, Randomized, Placebo-controlled, Multicenter Study to Assess the Efficacy, Safety, and Tolerability of Bosentan in Patients with Idiopathic Pulmonary Fibrosis FERNANDO JOSE MARTINEZ (Int Med-Pulm./Critical Care)
$2,100 07/01/03 - 12/31/08

**Adelson Medical Research Foundation (AMRF)**
Mechanisms of Neuronal Growth Inhibition In Vitro and In Vivo
ROMAN GIGER (Cell and Developmental Biology)
$21,719 07/01/08 - 06/30/09

Development of Monoclonal Antibodies Specific for Degenerating CNS Myelin
ROMAN GIGER (Cell and Developmental Biology)
$24,158 07/01/08 - 06/30/09

**Agriculture, Department of**
Participatory Design Tools for Envisioning Nearby Nature at the Workplace
RACHEL KAPLAN (Sch of Nat Resources & Environ)
With STEPHEN KAPLAN (Sch of Nat Resources & Environ)
$25,000 02/06/09 - 08/01/11

**American College of Rheumatology Research & Education Foundation**
ACR/REF Rheumatology Fellowship Training Award
RORY MARCUS MARKS (Int Med-Rheumatology)
$25,000 07/01/09 - 06/30/10

**American Diabetes Association, Inc.**
Regulation of Energy and Glucose Metabolism by SH2B1 in AgRP Neurons
LIANGYOU RUI (Molec & Integrative Physiology)
$103,500 01/01/09 - 12/31/09

New Therapeutic Targets in Diabetic Neuropathy
ANDREA M VINCENT (Neurology Department)
$92,282 01/01/09 - 12/31/09

**American Gastroenterological Association**
American Gastroenterological Association (AGA) Inservice Exam
JAMES T FITZGERALD (Med Ed/Ofc of Ed Resources&Res)
$98,800 06/01/08 - 10/31/10

**American Urological Association Foundation**
AUA Supplemental Funding: K-Award
WILLIAM W ROBERTS (Urology Surgery)
$101,000 01/01/09 - 12/31/11

**Amylin Pharmaceuticals, Inc.**
An Open-Label Treatment Protocol to Provide Metreleptin For The Treatment of Diabetes Mellitus and/or Hypertriglyceridermia Associated with Lipodystrophy
ELIF A ORAL (Metabolism, Endo & Diabetes)
$102,300 01/22/09 - 01/21/14
Arcus Foundation
The Michigan Racial & Economic Justice Knowledge Center
HAROLD W NEIGHBORS (RCGD-Black Americans)
$150,000 01/01/09 - 12/31/10

Ardea Biosciences
Specimen Analysis: Inflammatory Arthritis in Rodents
YEBIN JIANG (Radiology Department) $7,000 02/05/09 - 04/15/09

Bayer Corporation
Characterization of Pain Processing in Endometriosis-Associated Chronic Pelvic Pain
SAWSAN AS-SANIE (Obstetrics and Gynecology Dept) $110,000 01/01/09 - 12/31/10

Becton, Dickinson and Company
Determine Performance Characteristics of the BD GeneOhm? Cdiff Assay on Fresh Stool Specimens Compared to the C.diff CHECK "Common Antigen" Glutamate Dehydrogenase (GDH) EIA, Remel Prospect Toxin A/B EIA and Cytotoxicity Neutralization Assays
DUANE W NEWTON (Pathology Department) $2,500 02/01/09 - 07/31/09

Bishop, A.G., Trust
Super Science Friday
RENEE COLEEN ZIENTEK (Flint University Outreach) $15,000 11/18/08 - 11/17/13

Blue Cross Blue Shield of Michigan Foundation
The Impact of the CMS Hospital-Acquired Conditions Initiative for Michigan Patients and Hospitals
LAURENCE F MCMHAON JR (Int Med-General Medicine) With MARY A ROGERS (Int Med-General Medicine) $208,728 04/06/09 - 04/05/11
Translating Healthcare-Associated Research Into Practice Survey
SANJAY K SAINT (Int Med-General Medicine) $75,000 02/01/09 - 01/31/10

Boehringer Ingelheim, Ltd.
A Randomized Double-Blind Placebo-Controlled Parallel Group Study to Investigate the Safety and Efficacy of Two Doses of Tiotropium Bromide (2.5 ug and 5 ug) Administered Once Daily Via the Respimat Device for 12 Weeks in Patients with Cystic Fibrosis
SAMYA Z NASR (Pediatrics-Pulmonary Medicine) With MANUEL ARTETA (Pediatrics-Pulmonary Medicine); AMY G FILBRUN (Pediatrics-Pulmonary Medicine) $120,190 01/27/09 - 01/26/10

Brookings Institution
Explaining Trends in College Attendance
MARTHA J BAILEY (Pop Studies Research) With SUSAN MARIE DYNARSKI (Pop Studies-Research) $10,000 12/01/08 - 12/31/09

Celgene Corporation
CC-4047-STSAR-001
SCOTT M SCHUETZE (Int Med-Hematology/Oncology) $7,750 03/01/08 - 09/19/08

Child Neurology Foundation
Therapeutic Rescue in a Model of Multi Minicore Myopathy
JAMES DOWLING (Pediatrics-Neurology) With EVA L FELDMAN (Pediatrics-Neurology) $100,000 01/01/09 - 12/31/10
Rewarming After Therapeutic Hypothermia in Neonates
RENEE ADELE SHELLHAAS (Pediatrics-Neurology) With JOHN D E BARKS (Pediatrics-Neurology) $100,000 01/01/09 - 12/31/10

Children's Hospital of Pittsburgh
A Multi-Center Study of Acute Liver Failure (Year 4 Subcontract)
MACLOVIO JAMES LOPEZ (Pediatrics-Gastroenterology) $30,400 09/01/08 - 08/31/09
| **Commerce, Department of-National Oceanic and Atmospheric Administration** |
| Michigan Sea Grant College Program - Dean John A. Knauss Fellowship FY09 - S. Ledwin |
| JENNIFER READ (SNRE Michigan Sea Grant) |
| $43,500 02/01/09 - 01/31/10 |

| **Commerce, Department of-Office of the Secretary** |
| Great Lakes Trade Adjustment Assistance Center |
| SCOTT DAVID JACOBS (IRLEE) |
| $1,146,791 02/01/09 - 01/31/10 |

| **Cyber-enabled Wireless Monitoring Systems for the Protection of Deteriorating National Infrastructure Systems** |
| JEROME P LYNCH (Civil & Environmental Engr) |
| With MICHAEL FLYNN (Civil & Environmental Engr); AMIT K GHOSH (Civil & Environmental Engr); VINEET RAJENDRA KAMAT (Civil & Environmental Engr); VICTOR C LI (Civil & Environmental Engr); MINGYAN LIU (Civil & Environmental Engr); AMIR MORTAZAWI (Civil & Environmental Engr); KHALIL NAJAFI (Civil & Environmental Engr); ATUL PRAKASH (Civil & Environmental Engr); DENNIS MICHAEL SYLVESTER (Civil & Environmental Engr) |
| $11,387,858 02/01/09 - 01/31/14 |

| **Community Foundation for Southeastern Michigan** |
| Michigan Initiative for Innovation and Entrepreneurship |
| MARVIN G PARNES (DRDA - Research Services) |
| $1,500,000 02/01/09 - 12/31/09 |

| **Community Foundation of Greater Flint** |
| American Democracy Project 2008-|
| Campus/Community Engagement |
| RENEE COLEEN ZIENTEK (Flint University Outreach) |
| $10,000 10/01/08 - 12/09/09 |

| **Corporation for Public Broadcasting** |
| Community Service Grant - 2009 |
| STEPHEN SCHRAM (Michigan Television) |
| With JENNIFER BETH WHITE (Michigan Television) |
| $336,307 10/01/08 - 09/30/10 |

| **CTI Clinical Trial and Consulting Services** |
| Quark.006 Controlled, Randomized, Prospective, Double-blind, Multi-center, Phase I/II, Dose-escalation Study of the Safety, PK, and Clinical Activity of I5NP for Prophylaxis of Delayed Graft Function in Patients Undergoing Deceased Donor Kidney Transplant |
| RANDALL S SUNG (General Surgery Section) |
| $72,416 01/26/09 - 12/31/10 |

| **Creekside Community Development** |
| Grantee Support MI AmeriCorps Partnership - 2008-10 |
| MARGARET E DEWAR (Community Service Learning) |
| $2,190 09/01/09 - 05/31/10 |

| **Cystic Fibrosis Foundation** |
| Burkholderia Cepacia Reference Laboratory and Repository (Year 13) |
| JOHN J LIPUMA (Pediatrics-Infectious Diseases) |
| $393,604 03/01/09 - 02/28/10 |
Delta Dental Fund
Salivary Biomarkers for the Diagnosis and Surveillance of Head and Neck Cancer
CAROL ANNE MURDOCH-KINCH (Maxillofacial Surgery)
With NISHA J D'SILVA (Maxillofacial Surgery)
$24,375 01/01/09 - 12/31/09

Periodontal Treatment and Medical Care Costs in an Insured Group (Delta Dental Plan/Michigan State University Employees)
GEORGE WESLEY TAYLOR (Cariology, Restor Sci & Endo)
$164,380 11/01/08 - 10/31/09

Oral and Systemic Health Connections: Quarterly Research Reviews; A Project Identifying and Summarizing New Research Reports
GEORGE WESLEY TAYLOR (Cariology, Restor Sci & Endo)
$59,000 01/01/09 - 12/31/09

Detroit Area Pre-College Engineering Program (DACEP)
Detroit Area Pre-college Engineering Program (DAPCEP)
KENSALL D WISE (COE EECS - ECE - WIMS - ERC)
$16,800 02/26/08 - 12/31/08

Detroit Recovery Project
Grantee Support MI AmeriCorps Partnership - 2008-10
MARGARET E DEWAR (Community Service Learning)
$7,200 09/01/08 - 05/31/10

Dow AgroSciences
Zinc-Finger-Mediated Gene Targeting in Plant Cells
TZVI TZFIRA (LSA Molec./Cell./Develop. Bio)
$94,200 04/01/08 - 04/01/10

Eastern Michigan Environmental Action Council
Grantee Support MI AmeriCorps Partnership - 2008-10
MARGARET E DEWAR (Community Service Learning)
$3,600 09/01/08 - 05/31/10

Dana, Charles A., Foundation
Th 17 Polarization and Trafficking in Multiple Sclerosis
BENJAMIN M SEGAL (Neurology Department)
With DANIEL D MIKOL (Neurology Department); ASHOK SRINIVASAN (Neurology Department)
$200,000 10/01/07 - 09/30/10

Defense, Department of-Air Force, Department of the
JONATHAN L ELIASON (Vascular Surgery Section)
$83,720 08/29/08 - 05/29/09

Application of Cavity Ring-down Spectroscopy for Hall Thruster Erosion Measurements
ALEC D GALLIMORE (Aerospace Engineering)
$90,000 12/01/08 - 12/01/09

Defense, Department of-Army, Department of the
Analysis of Glycan Structural Modifications to Identify Improved Biomarkers for Breast Cancer Detection
DAVID E MISEK (General Surgery Section)
$569,942 01/15/09 - 04/14/12

Defense, Department of-Navy, Department of the
On Demand Custom Body Implant and Prosthesis FY08-09
PRAVANSU S MOHANTY (Dbn Coll of Eng-Mechanical Eng)
With ARMEN ZAKARIAN (Dbn Coll of Eng-Mechanical Eng)
$2,950,740 01/30/09 - 01/29/11
Education, Department of
The World of Words: An Embedded Multimedia Vocabulary Intervention for Economically Disadvantaged Pre-K Children
SUSAN B NEUMAN (SOE-Educational Studies)
$1,511,155  03/01/09 - 02/28/12

Energy, Department of
A Study of Horizontal Gas Jets in a Bubbling Fluidized Bed of Non-Spherical Particles
STEVEN L CECCIO (Mechanical Engineering)
$297,219  01/01/09 - 01/18/11
Strategies to Optimize Microbially-mediated Mitigation of Greenhouse Gas Emissions from Landfill Cover Soils
JEREMY D SEMRAU (Civil & Environmental Engr)
$156,259  07/01/08 - 06/30/09

Enzon Corporation
Multidisciplinary Approach to Treatment of CNS and Leptomeningeal Lymphoma
LISA ROGERS (Neurology Department)
$17,500  05/16/08 - 12/03/08

Fahs-Beck Fund for Research and Experimentation
Addressing Both Domestic Violence and Substance Abuse: Integrating Approaches in Contested Spaces
BETH G REED (School of Social Work)
$19,040  03/01/09 - 02/28/11

Flinn, Ethel and James, Foundation
Enhancing the Sustainability of Depression Disease Management Support for Primary Care
MICHAEL S KLINKMAN (Department of Family Medicine)
With ANANDA SEN (Department of Family Medicine)
$200,000  01/01/09 - 12/31/10

Flint Community Schools
Ready to Learn/Even Start Partnership with Flint Community Schools
JENNIFER BETH WHITE (Michigan Television)
$6,343  07/01/08 - 06/30/09

Florida, State of
DEP Contract SP673 - Mercury TMDL Task Assignment 5 - Atmospheric and Aquatic Modeling
GERALD J KEELER (Environmental Health Sciences)
With JOSEPH T DVONCH (Environmental Health Sciences); FRANK JOSEPH MARSIK (Environmental Health Sciences); M SANFORD SILLMAN (Environmental Health Sciences)
$417,299  02/06/09 - 12/31/09

Ford Motor Company
Automated Knowledge Acquisition/Testing and Training Tool
WILLIAM GROSKY (Dbn Col of Eng-Computer & Info)
With NAEEM ABBAS SELIYA (Dbn Col of Eng-Computer & Info); ZHIWEI XU (Dbn Col of Eng-Computer & Info)
$61,999  01/01/09 - 12/31/09

Franklin Associates Ltd
Life Cycle Assessment Water Bottles
GREGORY A KEOLEIAN (Sch of Nat Resources & Environ)
$10,000  06/30/08 - 04/02/09

General Motors Corporation
GM/UM CRL Engine Systems 09-13 Phase III - Grant
DIONISSIOS N ASSANIS (ME GM)
With ARISTOTELIS BABAJIMOPOULOS (ME GM); STANI V BOHAC (ME GM); ZORAN S FILIPI (ME GM); VOLKER SICK (ME GM)
$1,875,000  01/01/09 - 12/31/13

GM/UM CRL Engine Systems 09-13 Phase III/Contract
DIONISSIOS N ASSANIS (ME GM)
With ARISTOTELIS BABAJIMOPOULOS (ME GM); STANI V BOHAC (ME GM); ZORAN S FILIPI (ME GM); VOLKER SICK (ME GM)
$1,874,999  01/01/09 - 12/31/13
Battery Development for Automotive Drivetrains: A Technology Development Program at the University of Michigan - Grant
   ANN MARIE SASTRY (Mechanical Engineering)
   $2,000,000  01/01/09 - 12/31/13
The UM-GM Advanced Battery Coalition for Drivetrains: A Technology Center at the University of Michigan - Contract
   ANN MARIE SASTRY (Mechanical Engineering)
   With WEI LU (Mechanical Engineering); WEI SHYY (Mechanical Engineering)
   $3,000,000  02/16/09 - 02/15/14

Georgia Institute of Technology
MRSEC: The Georgia Tech Laboratory for New Electronic Materials
   THEODORE B NORRIS (COE EECS - ECE - USL)
   $58,000  09/01/08 - 08/31/14

Harvard Pilgrim Health Care
Joint Initiative for Vaccine Economics III [JIVE III]
   LISA PROSSER (Pediatrics-Ambulatory Care Pgm)
   $51,217  10/17/08 - 09/29/09
Joint Initiative for Vaccine Economics III (JIVE III) (Yr 1 carry forward)
   LISA PROSSER (Pediatrics-Ambulatory Care Pgm)
   $49,179  01/10/09 - 09/29/09

Health and Human Services, Department of National Institutes of Health
Repeated Partial Sleep Deprivation to Augment SSRI Response in Depression
   J TODD ARNEDT (Psychiatry Depression Center)
   With ROSEANNE ARMITAGE (Psychiatry Depression Center); SCOTT A LANGENECKER (Psychiatry Depression Center); ELIZABETH A YOUNG (Psychiatry Depression Center)
   $1,738,125  03/01/09 - 12/31/13

Supplement Request to: DNA-linked Dendrimer Nanoparticle Systems for Cancer Diagnosis and Treatment (R01 CA119409)
   JAMES R BAKER JR (MI Nanotechnology Institute)
   $50,000  08/01/08 - 07/31/09
Development of the Gustatory Solitary Nucleus
   ROBERT M BRADLEY (Biologic and Materials Science)
   With CATHERINE ELLEN KRULL (Biologic and Materials Science); CHARLOTTE M MISTRETTA (Biologic and Materials Science)
   $1,627,665  03/01/09 - 02/28/14

Comprehensive Genomic Approach to Rare Hearing Disorders and Ataxia
   MARGIT BURMEISTER (Molecular & Behav Neurosc Inst)
   With MARCI M LESPERANCE (Molecular & Behav Neurosc Inst); JUN LI (Molecular & Behav Neurosc Inst)
   $424,875  02/12/09 - 01/31/11

Growth Hormone Receptors and Actions - Research Supplement to Promote Diversity in Health Research
   CHRISTIN CARTER-SU (Molec & Integrative Physiology)
   $163,577  02/01/09 - 06/30/11
The Effect of Aging on Sensory Neurons in C. Elegans Using In Vivo Imaging
   NIKOLAOS CHRONIS (Mechanical Engineering)
   $343,977  07/01/09 - 06/30/12
3-Dimensional Proteolytic Regulation of Adipose Tissue Development and Function
   TAE-HWA CHUN (Metabolism, Endo & Diabetes)
   $398,358  07/01/09 - 06/30/12
Michigan Postbaccalaureate Research Education Program
   DAVID R ENGELKE (MSA PIBS)
   With KATHARINE FRANCESCA BARALD (MSA PIBS); LORI L ISOM (MSA PIBS)
   $1,338,568  03/01/09 - 02/28/13
Towards Pay for Performance in Kidney Transplantation

MICHAEL J ENGLESBE (General Surgery Section)
With JOHN D BIRKMEYER (General Surgery Section); ROBERT MARK MERION (General Surgery Section)
$669,600 04/01/09 - 03/31/14

2009 International Peripheral Nerve Society Meeting at Wuerzburg, Germany
EVA L FELDMAN (Neurology Department)
$10,000 03/01/09 - 02/28/10

Mitochondrial SOD as a Target for Diabetic Neuropathy - U01 DK076160
EVA L FELDMAN (Neurology Department)
$172,394 02/01/09 - 06/30/11

Phosphorylation of Dopamine Release by Amphetamine
MARGARET E GNEGY (Pharmacology Department)
With RONALD W HOLZ (Pharmacology Department); RICHARD ROBERT NEUBIG (Pharmacology Department)
$57,679 03/01/09 - 06/30/10

The Role of MLL Partner Associated Complex in Leukemia
JAY L HESS (Pathology Department)
$94,674 02/01/09 - 01/31/12

Endogenous and Exogenous Protection of the BBB in Stroke
RICHARD F KEEP (Neurosurgery)
With JIANMING XIANG (Neurosurgery); ANUSKA A ZOCHOWSKA (Neurosurgery)
$1,687,008 02/16/09 - 01/31/14

Supplement: In Vivo Chemical Monitoring Using Capillary Separations R37 EB003320
ROBERT T KENNEDY (LSA Chemistry)
$165,825 02/11/09 - 05/31/10

A pilot lifestyle intervention for women with histories of GDM: The PEG Study
CATHERINE KIM (Int Med-General Medicine)
With CAROLINE R RICHARDSON (Int Med-General Medicine)
$154,500 04/01/09 - 03/31/11

The Microenvironment Effects on the Osteogenesis of Human Embryonic Stem Cells
PAUL H KREBSBACH (Biologic and Materials Science)
$73,144 02/01/09 - 01/31/11

Subpopulations and Intermediate Outcome Measure in COPD Study SPIROMICS; Clinical Centers
FERNANDO JOSE MARTINEZ (Int Med-Pulm./Critical Care)
With MICHAEL J COFFEY (Int Med-Pulm./Critical Care); JEFFREY L CURTIS (Int Med-Pulm./Critical Care); MEILAN K HAN (Int Med-Pulm./Critical Care)
$1,961,990 02/01/09 - 01/31/16

Archiving NHANES: Enhancing Biosocial Research Opportunities
JAMES W MCNALLY (ICPSR-Archival Development)
$348,398 03/01/09 - 02/28/11

Keratin Biology and Disease Aspects in Simple Epithelia
BISHR OMARY (Molec & Integrative Physiology)
$2,271,371 02/01/09 - 01/31/14

Bisphenol-A and Reproductive Dysfunction
VASANTHA PADMANABHAN (Pediatrics-Endocrinology)
$2,037,289 02/11/09 - 11/30/13

Metabolically Coupled Ion Channel Interactions in Islets
LESLIE SATIN (Pharmacology Department)
$620,782 07/01/08 - 11/30/10

Federal Agency - NIH: Sample Analysis/Fee for Service Transgenic
THOMAS L SAUNDERS (Biomedical Research Core Fac.)
$212,937 06/01/08 - 05/31/10
Dietary Regulation of Pancreatic Digestive Enzymes
JOHN ANDREW WILLIAMS (Molec & Integrative Physiology)
With STEPHEN A ERNST (Molec & Integrative Physiology)
$1,649,369 01/20/08 - 11/30/13

Quality of Life Assessment in Childhood Cancer Survivors
BRADLEY JAY ZEBRACK (School of Social Work)
$23,714 09/01/08 - 08/31/09

Functional genomic approaches to duplicate gene evolution
JIANZHI ZHANG (LSA Ecology & Evolutionary Bio)
$1,296,805 03/01/09 - 02/28/13

Heartware, Inc.
Evaluation of the HeartWare LVAD System for the Treatment of Advanced Heart Failure
FRANCIS D PAGANI (Cardiac Surgery Section)
With KEITH D AARONSON (Cardiac Surgery Section)
$156,800 01/05/09 - 12/31/11

Hitachi Central Research Lab
Fault Tolerant ECU Design Using Multi-Core SoC
KANG GEUN SHIN (COE EECS - CSE - RTCL)
$90,000 09/01/08 - 08/31/09

HopeLab
The Impact of Cancer for Young Adults Age 18-35: Measuring Outcomes and Enhancing Care for Young Adults with Cancer
BRADLEY JAY ZEBRACK (School of Social Work)
$96,204 08/01/08 - 07/31/10

HRL Laboratories
Revolutionary Asynchronous Delay Based Integrated Circuits for Analog Learning Systems of Neuromorphic Adaptive Plastic Scalable Electronics (RADICAL-SyNAPSE)
WEI LU (COE EECS - ECE - SSEL)
With PINAKI MAZUMDER (COE EECS - ECE - SSEL)
$227,034 01/16/09 - 07/15/09

Hybrid Design Services, Inc.
Durability/Vibration Analysis of Ultra-Capacitor Modules for Hybrid Commercial Buses
HONG-TAE KANG (Dbn Coll of Eng-Mechanical Eng)
$40,169 12/01/08 - 05/31/09

ICON Clinical Research, Inc.
Phase I Open Label, Nonrandomized, Dose Escalation Study to Evaluate the Safety Tolerability, Pharmacokinetics, Immune Function Effects, and Efficacy of Multiple Doses of CP-675,206 in Patients with Advanced Melanoma, and Phase 2, Open Label, Randomized S
BRUCE G REDMAN (Int Med-Hematology/Oncology)
$3,500 08/12/04 - 09/30/10

Indiana University
IBCST-Competitive Renewal of MSM: Multiscale Studies of Segmentation in Vertebrates
SANTIAGO DAVID SCHNELL (Molec & Integrative Physiology)
$253,611 09/01/08 - 08/31/12

Philanthropy Supplement - 2008 Data Collection (Wave 36)
FRANK P STAFFORD (SRC-Psid)
$326,200 09/01/08 - 08/31/10

Integrated Science & Technology, Inc.
Application of Advanced Sensor Technology to DOD Soil Vapor Intrusion Problems
EDWARD T ZELLERS (Environmental Health Sciences)
$155,299 12/02/08 - 06/30/10

Intel Corporation
High Performance Tunable Quantum Dot Laser WDM Arrays for Optical Interconnects
PALLAB K BHATTACHARYA (COE EECS - ECE - SSEL)
$435,009 02/01/09 - 01/31/12

ITT Industries
Development of Elevation Estimation Capabilities for the Personal Dead-reckoning System
JOHANN BORENSTEIN (Mechanical Engineering)
$60,000 12/01/08 - 05/30/09
Japanese Society of Electrocardiology
Three Dimensional Scroll Wave Dynamics During Chronic Atrial Fibrillation
   JEROME KALIFA (Int Med-Cardiology)
   $20,000  01/01/09 - 12/31/09

Jet Propulsion Laboratory
The Origin and Composition of the Solar Wind and Interstellar Pickup Ions Using Data from the Solar Wind Ion Composition Spectrometer (SWICS) on the Ulysses Mission
   LENNARD A FISK (Space Physics Research Lab)
   With SUSAN THERESE LEPRI (Space Physics Research Lab);
   THOMAS H ZURBUCHEN (Space Physics Research Lab)
   $263,228  10/01/08 - 09/27/09

Kellogg, W. K., Foundation
Impact of Coalitions on Health of Vulnerable Children
   NOREEN M CLARK (Hlth Behavior & Hlth Ed Dept)
   $50,000  01/01/09 - 12/31/09

Lawrence Berkeley National Laboratory
Meoscale Simulations of Active Materials for High-Power Batteries: Interrogation of Failure Mechanisms During Cycle
   ANN MARIE SASTRY (Mechanical Engineering)
   $320,000  01/01/09 - 12/31/09

Lilly, Eli, and Company
Master Service Agreement
   JEREMY M G TAYLOR (Biostatistics Department)
   $50,000  01/13/09 - 01/12/11

Michigan Coalition Against Domestic and Sexual Violence, The (MCADSV)
Building the Safety Net
   MIEKO YOSHIHAMA (School of Social Work)
   $3,000  06/01/07 - 05/31/09

Michigan Public Health Institute
Evaluation of the Juvenile Justice Prevention Programs for the Michigan Department of Human Services
   ROSEMARY A SARRI (CPS- Ctr for Political Studies)
   $30,720  10/01/08 - 09/30/09

Michigan State Bar Foundation
University of Michigan Law School Pediatric Advocacy Initiative
   ANNE N SCHROTH (Law Clinical Activity)
   $25,000  09/01/07 - 09/30/08

Michigan State University
Entrepreneurship Internship Program
   JOEL E RASH (Cntr for Entrpnshp and Bus Dev)
   $3,000  08/01/08 - 12/12/09

Michigan, State of, State Police, Department of
2008 Dispatcher Training Distribution
   TERRY R SEAMES (DPS Staff Services)
   $8,928  02/01/08 - 12/31/10

Millennium Pharmaceuticals, Inc.
UMCC 2008.046 A Phase 1 Dose Escalation Study of TAK-901 in Subjects with Advanced Hematologic Malignancies
   MOSHE TALPAZ (CTO-Phase 1)
   $693,915  11/14/08 - 05/13/10

Mott Community College
Flint Smart Teachers as Role Models (STAR) Year 2
   ROSE A CASEMENT (Flint Sch of Ed and Human Svcs)
   With TENDAJI W GANGES (Flint Sch of Ed and Human Svcs)
   $29,004  11/01/08 - 10/31/09
Multiple Myeloma Research Consortium
First Amendment to the Multiple Myeloma Research Consortium Site Investment Grant
ANDRZEJ J JAKUBOWIAK (Int Med-Hematology/Oncology)
$80,000 01/01/09 - 12/31/09

National Association of Children's Hospitals and Related Institutions
NACHRI Faculty Steering Committee-Catheter Related Blood Stream Infection Initiative
MATTHEW F NIEDNER (Pediatrics-Intensive Care)
$18,000 10/31/08 - 10/30/09

National Geographic Society
Expanding Access to High-quality Geographic Professional Development
BARRY JAY FISHMAN (SOE-Educational Studies)
$9,954 02/25/09 - 12/31/09

National Organization for Hearing Research, The
Intrinsic Thioredoxin and Glutathione Systems: Protection Against Noise-Induced Hearing Loss
TZY-WEN L GONG (Kresge Hearing Research Inst)
With DAVID F DOLAN (Kresge Hearing Research Inst); MARGARET I LOMAX (Kresge Hearing Research Inst)
$20,000 02/01/09 - 01/31/10

National Science Foundation
Collaborative Research: Center for Thermal Technology
ARVIND ATREYA (Mechanical Engineering)
$10,000 03/01/09 - 02/28/10

Workshop on Estimating Species Trees: Practical and Theoretical Aspects of a New Paradigm Molecular Systematics
L LACEY KNOWLES (LSA Zoology Museum)
$11,400 02/01/09 - 07/31/09

CAREER: The Interaction of Nitric Oxide with Cytochrome P450
NICOLAI LEHNERT (LSA Chemistry)
$570,000 02/01/09 - 01/31/14

Doctoral Dissertation Improvement Grant:
Inequality and Social Exclusion in the Southern Andes
BRUCE MANNHEIM (LSA Anthropology)
With MARGARITA HUAYHUA (LSA Anthropology)
$14,998 03/01/09 - 08/31/10

Comparative Studies of the Interaction and Ionospheric Processes at a Variety of Different "Non-Magnetic" Solar System Bodies
ANDREW F NAGY (Space Physics Research Lab)
With KENNETH CALVIN HANSEN (Space Physics Research Lab)
$303,355 02/01/09 - 01/31/12

Doctoral Dissertation Research: Domesticating Human Rights: Examining Political Opportunities and Consciousness in the United States
MARGARET R SOMERS (LSA Sociology)
$12,000 02/15/09 - 01/31/10

Collaborative Research: Advanced Models of Magma Migration at Convergent MARGINS
PETER E VAN KEKEN (LSA Geological Sciences)
$56,164 02/01/09 - 01/31/11

CAREER: Programming Interfaces and Hardware Designs for a Polymorphic Multicore Cache Architecture
THOMAS F WENISCH (COE EECS - CSE - ACAL)
$400,000 02/15/09 - 01/31/14

Modern Optics in the City of Light, a
Collaborative REU Site in Paris
STEVEN M YALISOVE (COE EECS - ECE - USL)
$300,151 02/15/09 - 01/31/12

Financial Innovations to Stimulate Remittances and Savings: An Experimental Approach
DEAN C YANG (G. Ford Sch of Public Policy)
$231,471 03/01/09 - 02/28/11
<table>
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<tr>
<th><strong>National Trust for Historic Preservation</strong></th>
<th><strong>Ovarian Cancer Research Fund, Inc., The (OCRF)</strong></th>
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<tr>
<td>Upper Greenhouse Boiler Engineering Analysis and Design Project</td>
<td>Ovarian Tumor Vascular Proteins as Biomarkers and Therapeutic Targets</td>
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<td>GARY S RODGERS (Dbn Henry Ford Estate)</td>
<td>RONALD J BUCKANOVICH (Int Med-Hematology/Oncology)</td>
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<td>With KAREN MARZONIE (Dbn Henry Ford Estate)</td>
<td>$200,000 01/01/09 - 12/31/10</td>
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<tr>
<th><strong>Nature Conservancy, The</strong></th>
<th><strong>Modeling of HID Lamps for Development of Control Schemes</strong></th>
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<tr>
<td>Lake Huron: Developing a Biodiversity Conservation Strategy</td>
<td>MARK KUSHNER (COE EECS - ECE - Rad)</td>
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<td>JENNIFER READ (SNRE Michigan Sea Grant)</td>
<td>$302,934 01/01/09 - 12/31/11</td>
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<td>$10,215 12/09/08 - 12/31/09</td>
<td><strong>Pennsylvania State University</strong></td>
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<th><strong>New York University</strong></th>
<th><strong>Aligning Forces for Quality II</strong></th>
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<tr>
<td>Beyond Bakke: The Social Origins and Political Development of Affirmative Action in College and University Admissions</td>
<td>JEFFREY A ALEXANDER (Health Management and Policy)</td>
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<td>ANTHONY S CHEN (LSA Sociology)</td>
<td>$147,071 05/01/08 - 04/30/09</td>
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<td>$20,000 06/01/08 - 05/31/09</td>
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<th><strong>Nissan Technical Center, North America</strong></th>
<th><strong>Modeling of HID Lamps for Development of Control Schemes</strong></th>
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<td>Human Factors Research Phase 2</td>
<td>MARK KUSHNER (COE EECS - ECE - Rad)</td>
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<td>PAUL A GREEN (UMTRI-Human Factors)</td>
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<th><strong>North Carolina A &amp; T State University</strong></th>
<th><strong>U.S. Remanufacturing Market Analysis with Example of Copying Machine, and Automotive Electronics</strong></th>
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<tr>
<td>ONR/HBEC Future Engineering Faculty Fellowship Award</td>
<td>STEVEN J SKERLOS (Mechanical Engineering)</td>
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<td>TRESA M POLLOCK (Materials Science &amp; Engin.)</td>
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<td><strong>Quintiles, Inc.</strong></td>
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<tr>
<th><strong>Northwestern University</strong></th>
<th><strong>A Phase 2, Double-blind, Placebo-controlled, Randomized, International, Multi-center Study of Oral TAC-101 as Second Line Treatment in Patients with Advanced Hepatocellular Carcinoma who Received Sorafenib as First Line Therapy</strong></th>
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<td>Three-Dimensional Evolution of Dendritic Mixtures</td>
<td>JORGE A MARRERO (Int Med-Gastroenterology)</td>
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<td>KATSUYO S THORNTON (Materials Science &amp; Engin.)</td>
<td>$180,060 02/03/09 - 12/31/10</td>
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<td>$82,035 08/15/08 - 08/14/09</td>
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**Salix Pharmaceuticals, Inc**  
A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Assess the Efficacy and Safety of Rifaximin 550 mg TID in the Treatment of Subjects with Non-Constipation Irritable Bowel Syndrome  
RICHARD J SAAD (Int Med-Gastroenterology)  
$81,300  
01/29/09 - 12/31/10  
**Santa Fe Institute**  
CDI-Type I: Statistical Inference and Machine Learning for Complex Networks  
MARK E NEWMAN (LSA Physics)  
$96,705  
09/01/08 - 08/31/11  
**Sarcoma Alliance for Research Through Collaboration (SARC)**  
SARC Alliance for Research Through Collaboration Medical Advisor  
RASHMI CHUGH (Int Med-Hematology/Oncology)  
$19,250  
12/01/08 - 03/31/09  
UMCC 2006.127 // SARC 009 (AMENDMENT No. 2): A Phase II Trial of Dasatinib in Advanced Sarcoma  
SCOTT M SCHUETZE (Int Med-Hematology/Oncology)  
$61,738  
04/15/08 - 05/10/15  
**Seventh Sense Biosystems, Inc.**  
Surface Switchable Biophasic Nanocolloids  
JOERG LAHANN (Chemical Engineering Dept)  
$505,000  
12/01/07 - 12/01/09  
**Smithsonian Institution**  
The Disk-Jet Connection in Seyfert-1 AGN  
JON MATTHEW MILLER (LSA Astronomy)  
$48,199  
01/07/09 - 07/31/10  
**Southwest Detroit Business Association (SDBA)**  
Grantee Support MI AmeriCorps Partnership - 2007-09  
MARGARET E DEWAR (Community Service Learning)  
$1,325  
09/01/07 - 05/31/09  
**Special Olympics, Inc.**  
Examining Factors Related to Motor Performance and Physical Activity in School-Aged Children With and Without Down Syndrome  
DALE A ULRICH (School of Kinesiology)  
$2,613  
01/09/09 - 12/31/09  
**Spencer Foundation**  
The Future of the Public Research University in America  
PAUL N COURANT (G. Ford Sch of Public Policy)  
$26,000  
01/01/09 - 06/30/09  
**Summer in the City**  
Grantee Support MI AmeriCorps Partnership - 2008-10  
MARGARET E DEWAR (Community Service Learning)  
$2,750  
09/01/08 - 05/31/10  
**Telcordia Technologies**  
2009 Continuation: Developing Routing Protocols Using Static Low Duty Cycled Sensors  
MINGYAN LIU (COE EECS - ECE - Cspl)  
$25,000  
12/01/05 - 09/30/09  
**The Hartwell Foundation**  
Mechanism of Neurodegeneration in Inherited Peripheral Neuropathy  
MIRIAM H MEISLER (Human Genetics Department)  
$100,000  
01/01/09 - 12/31/11  
**The Tobin Project**  
On the Status of Capture Theory in the Social Sciences  
STEVEN P CROLEY (Law Research Faculty Activity)  
$5,600  
12/16/08 - 08/31/09  
**Therakos, Inc.**  
Addition of Etanercept and Extracorporeal Photopheresis to Standrd GVHD Prophylaxis in Patients Undergoing Reduced Intensity Unrelated Donor Hematopoietic Stem Cell Transplant  
JOHN E LEVINE (Pediatrics-Hematology/Oncology)  
$254,325  
12/18/08 - 12/14/11
Timbre Technologies, Inc
Graduate Student Internship Program (Tokyo Electron)
JI ZHU (LSA Statistics)
$45,000 09/01/08 - 08/31/09

Toyota Motor North America, Inc.
Feasibility Study of Beyond Line-of-site Vehicle Detection at an Intersection
DAVID R DOWLING (Mechanical Engineering)
With KARL GROSH (Mechanical Engineering)
$25,000 02/01/09 - 03/31/09

Experimental Study of Beyond Line-of-site Vehicle Detection at an Intersection
KARL GROSH (Mechanical Engineering)
With DAVID R DOWLING (Mechanical Engineering)
$25,000 02/01/09 - 03/31/09

University of Alabama
Data Analytic Access to MTF Data
JOHN E SCHULENBERG (SRC-Studies of Youth)
$4,421 06/01/08 - 03/31/09

University of California-San Diego
Mobile Brain Imaging: Electroencephalographic Dynamics Accompanying Motivated Movements
DANIEL P FERRIS (School of Kinesiology)
$120,307 10/01/08 - 09/30/09

University of Hawaii
Mortality Patterns Across the Life Course Among Native Hawaiians and Other Pacific Islanders
SELA V PANAPASA (RCGD-Black Americans)
$38,825 11/01/08 - 02/28/09

University of Illinois-Urbana-Champaign
University of Illinois at Urbana-Champaign
ROSEMARIE HAM ZIEDONIS (ROSS SCH Research Support)
$31,942 01/01/09 - 08/31/09

University of Maryland, The
Trapped Ion Quantum Networks
LUMING DUAN (LSA Physics)
$130,000 08/01/08 - 07/31/09

University of Nebraska
Monte Carlo Simulations for Tunable, Monoenergetic Gamma-ray Source for Detection of Embedded SNM
SARA A POZZI (Nuclear Eng & Radiological Sci)
$101,125 11/01/08 - 10/31/09

University of North Carolina
Synthesis of CDK4 Inhibitors 45b, 89d and 100c
HOLLIS D SHOWALTER (PHARMACY Medicinal Chemistry)
With JENNY GEESUN RYU (PHARMACY Medicinal Chemistry);
MICHAEL W WILSON (PHARMACY Medicinal Chemistry)
$37,533 01/26/09 - 05/11/09
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<tr>
<th>Institution</th>
<th>Project Description</th>
<th>Principal Investigator(s)</th>
<th>Amount</th>
<th>Start/End Dates</th>
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<tr>
<td>University of North Carolina at Chapel Hill</td>
<td>Cartoid Occlusion Surgery Study (COSS)</td>
<td>B GREGORY THOMPSON JR (Neurosurgery)</td>
<td>$434,636</td>
<td>12/01/07 - 11/30/12</td>
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<td>With DARIN ZAHURANEC (Neurosurgery)</td>
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<td>University of Rochester</td>
<td>ACE: The IL-12p40 Family of Monokines in Secondary Progressive Multiple Sclerosis</td>
<td>BENJAMIN M SEGAL (Neurology Department)</td>
<td>$65,885</td>
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<td>With SINAE KIM (Neurology Department)</td>
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<td>University of South Florida</td>
<td>Hsp70 Inhibition as a Therapeutic Strategy for Corticobasal Degeneration</td>
<td>JASON EDWARD GESTWICKI (Life Sciences Institute-Admin)</td>
<td>$25,000</td>
<td>11/14/08 - 11/15/09</td>
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<td>University of Virginia</td>
<td>Role of Burkholderia Cenocepacia Adhesin, AdhA, in Cystic Fibrosis Infections</td>
<td>JOHN J LIPUMA (Pediatrics-Infectious Diseases)</td>
<td>$54,224</td>
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<td>With UMADEVI S SAJJAN (Pediatrics-Infectious Diseases)</td>
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<td>Various Sponsors</td>
<td>Recharge: Transportation Data Center</td>
<td>CHARLES P COMPTON (UMTRI-Data Center)</td>
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<td>CAROL A FIERKE (LSA Chemistry)</td>
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<td>CAROL A FIERKE (LSA Chemistry)</td>
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<td>Recharge: Wheelchair Restraint Testing</td>
<td>LAWRENCE W SCHNEIDER (UMTRI-Biosciences)</td>
<td>$22,750</td>
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<td>Veterans Affairs, Department of</td>
<td>Veterans Walk to Beat Back Pain</td>
<td>CAROLINE R RICHARDSON (Department of Family Medicine)</td>
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<td>01/01/09 - 09/30/11</td>
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<td>Westat</td>
<td>Research Partnership with a State-wide Network of Federally Qualified Health Centers</td>
<td>LEE A GREEN (Department of Family Medicine)</td>
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<td>With MICHAEL D FETTERS (Department of Family Medicine); DONALD E NEASE JR (Department of Family Medicine)</td>
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<td>Ypsilanti Public Schools</td>
<td>Enabling Adolescents in Culturally Diverse Environments to Peacefully Resolve Ethnic Group Conflicts</td>
<td>CHARLES D GARVIN (School of Social Work)</td>
<td>$3,000</td>
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<td>With HENRY O MEARES (School of Social Work); MICHAEL SPENCER (School of Social Work)</td>
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