

HEADLINES

Clinical Research Vendor Demonstration

As an integral part of our clinical research community, you are invited to participate in a Clinical Research Vendor demonstration that is being co-sponsored by the Medical School Office of Research, Faculty Group Practice (FGP) Professional Billing and the Michigan Institute for Clinical and Health Research (MICHR). The demonstrations are focused around the management of financial and administrative aspects of clinical research. With a primary focus on evaluating the budget and creating billing calendar features, the presentations will also include establishing research demographics, enrolling subjects, visit tracking, invoicing and report generation.

These demonstrations will occur over two days as follows:

- Monday, February 16, 2009
8:30 - 10:30 AM
Towsley Amphitheater
Vendor: UMS Financials
Vendor website: (<http://www.ethority.com>)
- Monday, February 16, 2009
12:30 - 2:30 PM
Towsley Amphitheater
Vendor: MDLogix
Vendor website: (<http://www.mdlogix.com>)
- Tuesday, February 17, 2009
8:30 - 10:30 AM
Towsley Amphitheater
Vendor: Velos
Vendor website: (<http://www.velos.com>)
- Tuesday, February 17, 2009
10:45 - 11:45 AM
Towsley Amphitheater
Host: Sam Silver
Evaluations of the vendors by internal UM participants only (vendors will NOT be present).
Please come and share your feedback about the demonstrations you saw.

No registration is required, but please make every effort to attend these important demonstrations to help us evaluate these systems adequately. If you have questions, please contact Tami Samborski at 734-647-9182 or (tsambors@umich.edu).

Medical Innovation Center Recruiting for Its July 2009 Fellowship Team

The University of Michigan Medical Innovation Center's (MIC) Fellowship Program builds tomorrow's innovation leaders today. The MIC Fellowship is a multidisciplinary team-training program for talented post-graduate professionals with medical, dental, doctorate, or master's

degrees, who are committed to addressing real healthcare issues through innovation excellence. Innovation Fellows are expected to function as a cohesive team, blurring the boundaries of their respective disciplines. Teams will have medical (M.D., D.O.), business (M.B.A.), and engineering (Master or above) members who will collaborate in this unique program.

This program draws on the strengths of Michigan's renowned schools and colleges to develop a new type of medical innovator with the knowledge and integrated, cross-disciplinary skills necessary to transform problems into practical solutions and research into products. This intensive program provides practical training through experiential learning that allows innovation knowledge to be applied to the medical arena and beyond. **Residents (procedure oriented specialties preferred) who have completed a minimum of two years of training are eligible to apply.** To learn about the Fellowship scope, our application process, or get answers to frequently asked questions, visit our website (<http://www.med.umich.edu/ummic>).

The MIC is currently recruiting for its Funded Innovation Fellowship for July 2009. In summary, **we are specifically looking for five post-graduates in the following categories: (1) M.B.A. preferably with at least one year in the medical device industry, (2) M.D. with two years of clinical experience, and (3) engineer preferably with at least two years working in industry.** We are looking for candidates who are proactive team players with excellent communication skills.

Michigan Diabetes Research and Training Center

(This is part of a continuing series of articles describing the services available through the Office of Research and affiliated units.)

The Michigan Diabetes Research and Training Center (MDRTC) is a multidisciplinary unit of the University of Michigan Health System funded by the National Institutes of Health since 1977. The MDRTC supports and strengthens U-M interdepartmental activities in research, training and outreach in the field of diabetes, and its related complications and endocrine and metabolic disorders.

The MDRTC provides funding for core laboratories to support biomedical and translational research, patient and physician education activities, and pilot and feasibility grants to support new investigators and novel ideas.

The specific aims of the MDRTC are to:

- Facilitate and focus basic research in the areas of diabetes, its related complications and endocrine and metabolic disorders.
- Promote the application of relevant new knowledge of diabetes and related disorders to prevention and control through innovative, relevant, feasible, and cost-effective behavioral, clinical, and health services research.

- Evaluate, refine, and disseminate new knowledge regarding diabetes, its complications, and related disorders into sustainable, widespread community practice, especially in communities at increased risk.
- Recruit, train, motivate and retain an effective workforce of basic, clinical, epidemiologic, and health services researchers and health care providers in the area of diabetes, endocrinology and metabolism.

Directed by William H. Herman, M.D., M.P.H., Stefan S. Fajans/GlaxoSmithKline Professor of Diabetes and Professor of Internal Medicine and Epidemiology, the MDRTC supports seven cores that provide researchers with a variety of investigative tools. The MDRTC cores are organized into the Biomedical Research Division under the direction of Christin Carter-Su, Ph.D., Molecular and Integrative Physiology and the Prevention and Control (P&C) Division under the direction of John D. Piette, Ph.D., Internal Medicine.

The MDRTC Cores in the Biomedical Research Division include the:

- **Animal Phenotyping Core** – provides state-of-the-art metabolic analysis of rodent models with services including: (1) measurement of body composition, metabolic rate, respiratory quotient, food consumption and activity, (2) analysis of insulin sensitivity and glucose tolerance, along with more specialized measures of insulin action and metabolite flux and storage utilizing clamping techniques, (3) specialized surgical techniques including placement of cannulae and tissue harvest, (4) isolation and study of pancreatic islets and mitochondria from metabolic tissues, and (5) additional phenotyping for relevant cardiovascular, musculoskeletal and behavioral phenotypes.
- **Cell and Molecular Biology Core** – provides services including: advice and training in Cell and Molecular Biology techniques, Transgenic Animal and Vector Core Facility subsidies, microarray analysis, Hybridoma, RNA interference / shRNA lentiviral plasmids, and high throughput chemical screens subsidies.
- **Morphology and Image Analysis Core (MIAC)** – provides state-of-the-art quantitative morphological analysis of fixed and living cells. The core provides: (1) quantitative cellular and subcellular localization by fluorescence and confocal microscopy including immunohistochemistry, fluorophotometric ion analysis, FRET, FLIP, FRAP, and photoactivation of caged fluorophores, and electron microscopy, (2) generation of digital images to present collected data, (3) demonstration and teaching of the above techniques to MDRTC investigators, trainees and technicians (4) access to specialized equipment for those wishing to carry out the various types of microscopy and image analysis, and (5) the initiation, implementation and dissemination to investigators new and innovative morphological and image analysis techniques to aid research on diabetes.
- **Peptide and Proteomics Core** – provides services for the analysis of peptides and proteins. Proteomic services include (1) proteome mapping, (2) protein expression profiling, (3) protein complexes, and (4)

post-translational modifications. Technologies offered include (1) protein expression profiling using isotope enrichment, ion statistics, and two dimensional gel electrophoresis, (2) phosphorylation site mapping as well as mapping of other post-translational modifications, (3) MuDPIT analyses, (4) 1D and 2D capillary HPLC, (5) bioinformatics support and training, (6) tandem mass spectrometry, and (7) proteome informatics. The core maintains an information management system for proteomics, providing an environment for investigators to access and curate their data.

Peptide Synthesis Services include: linear custom peptides, peptides with posttranslational modifications of unusual amino acids, labeled peptides, peptide libraries, cyclic peptides, peptides for immunological applications, peptide purification and quality control.

Protein Mass Spectrometry Services include: molecular weight determination of proteins, protein identification by LC-MS/MS, peptide mass fingerprinting, and characterization and identification of posttranslational modifications. Circular Dichroism Spectroscopy is also offered.

The goal of the **Prevention and Control (P&C) Division** is to establish, promote, and enhance multidisciplinary collaboration among researchers directed at the prevention and control of diabetes by providing shared access to specialized expertise and resources. P&C Division staff and investigators have extensive experience and expertise related to behavioral, clinical, epidemiologic, and health services research in diabetes; biostatistics and economic analysis; and in working with underserved and high-risk populations including African Americans, Hispanic Americans, and Arab Americans. The cores that support this mission include the:

- **Behavioral, Clinical and Health Systems Intervention Research Core (BCHS)** – provides collaboration, training and tangible resources to support behavioral, clinical and health systems intervention research designed to translate new knowledge into improved health care and health for people with diabetes.
- **Biostatistics and Economic Modeling Core** – assists investigators in making quantitative inferences about the causes, control and prevention of diabetes or other endocrine-related conditions by consulting and collaborating on research related to diabetes. The core provides experimental design, data management and data analysis.
- **Measurement Core** – supports translational research studies that evaluate interventions directed at improving health outcomes of people with diabetes, including studies that evaluate barriers to adoption and dissemination of state-of-the-art diabetes care. The Measurement Core also supports the Center's Chemistry Laboratory which provides MDRTC members with a central resource capable of offering a wide variety of analytical techniques to support their research endeavors.
- **Chemistry Laboratory** – performs many assays related to diabetes, heart disease, and hypertension. Examples of such assays include, but are not limited to: cortisol (salvia), cortisol (serum), creatinine, C-peptide, C-reactive

protein, glucose (enzymatic, glycosylated hemoglobin, human insulin. View the "Chemistry Laboratory Assay and Price List" at (<http://www.med.umich.edu/mdrtc/cores/ChemCore/index.html>).

RESEARCH COMPLIANCE TRAINING AND EDUCATION

Become a Member

To become a member of the MDRTC or for more information about their services, visit (<http://www.med.umich.edu/mdrtc/>).

David E. Kuhl, M.D., Receives Prestigious Japan Prize for Science and Technology

The Science and Technology Foundation of Japan has awarded David E. Kuhl, M.D., Professor of Radiology at the University of Michigan Medical School, its prestigious Japan Prize for technological integration of medical science and engineering. The Science and Technology Foundation of Japan honors those whose original and outstanding achievements in science and technology are recognized as having advanced the frontiers of knowledge and served the cause of peace and prosperity for mankind. This year marked the 25th year of the Japan Prize, which is described as one of the world's most prestigious awards in science and technology.

One of two recipients for the 2009 award, Kuhl is known as "the father of positron emission tomography" and was recognized for developing a novel method of tomographic imaging of the distribution of radioactive isotopes in the body.

"We all owe a tremendous debt of gratitude to Professor Kuhl," said James O. Woolliscroft, M.D., Dean, U-M Medical School and Lyle C. Roll Professor of Medicine, at a faculty meeting on January 20, 2009. "His research impacts clinical care and research today and offers hope for treatment and research in ways we cannot yet imagine."

Kuhl, as the first U-M recipient of this award, sits among 42 people in 13 countries around the world who have received the prize. The Japan Prize laureate receives a certificate of merit and a commemorative medal.

"Dr. Kuhl is a role model for students, trainees and other faculty," says N. Reed Dunnick, M.D., Fred Jenner Hodges Professor and Chair of Radiology at the U-M Medical School. "This recognition, which highlights his accomplishments, will serve as an additional beacon to attract the best and brightest to our field and to the University of Michigan."

Early in his career, Kuhl developed a new method of tomographic imaging, which takes the cross-sections of an image to create a three-dimensional picture, giving doctors more information to help with diagnosis. His research into tomographic imaging of the distribution of radioactive isotopes throughout the body began in the 1950s. He was the first to demonstrate the clinical utility of image separation in brain tumors and stroke. In the 1970s, his continued research into three-dimensional imaging moved the field from cerebral circulation and pathophysiology, to transformative scientific discovery in neuroscience and behavioral science research.

Kuhl was recruited by U-M in 1986 to lead the Division of Nuclear Medicine and currently is a Professor of Radiology. His research works to accomplish earlier diagnosis of patients with Alzheimer's disease and Parkinson's disease.

Human Research

Have an IRB Question on Your Mind?

IRBMED is offering a new service starting February 3, 2009 – the **Speak To A Regulatory Specialist (STARS) Program**. STARS offers set times during the week when a Senior Associate Regulatory Analysts (SARA) will be available to speak immediately to callers whose inquiry relates to new or ongoing IRBMED business. STARS will be offered on Tuesdays from 10:00 AM - 12:00 PM and on Wednesdays from 1:00 - 3:00 PM. Simply call the main phone number for IRBMED at 734-763-4768.

This new program supplements, rather than replaces, researchers' access to IRBMED staff. We still welcome your questions at any time convenient to you and offer consults on new and ongoing research as well as educational sessions geared specifically for your needs.

eResearch News

In response to user feedback and usability testing, the eResearch Regulatory Management system (IRB and other applications) will be upgraded in early March 2009. Featured in the upgrade are new customized application paths for retrospective, exempt, and non-FDA or OHRP regulated research. Study teams planning to conduct these low-risk types of research will be able to complete an application that is shorter than the standard application. The look of the study workspace has also been modified for greater functionality and ease of use. The application will also include new questions that may impact future amendments.

IRBMED is offering two presentations that review the changes and provide Q&A time with MAIS and IRBMED staff:

- Wednesday, February 25, 2009
2:00 - 3:30 PM
2903 Taubman Medical Library
- Wednesday, March 4, 2009
2:00 - 3:30 PM
South Lecture Hall, Med Sci II

To register for a session, please visit (http://cgi.research.umich.edu/training/irbmed/irbmed_training_dates.lasso?descr_id=301). You can also request a session for your unit/department by emailing Zan Daley at (daley@med.umich.edu).

Animal Research

Inspections of Animal Facilities

Both the Public Health Service Policy (PHS Policy) and the Animal Welfare Regulations require semi-annual inspections of animal facilities. In March/April and September/October, the UCUCA inspects animal housing and use rooms, facilities, and laboratories using the "Guide for the Care and Use of Laboratory Animals" as a basis for evaluation. In addition, the UCUCA compliance staff inspects laboratory spaces that conduct rodent survival surgeries semi-annually

on behalf of the UCUCA. The results of these inspections are reviewed by the UCUCA at a monthly meeting and sent in a report to the Vice President for Research twice each year.

Animal Concern Hotline

The UCUCA maintains the Animal Concern Hotline, operated through the UCUCA Office, to provide a mechanism for UM staff members and members of the public to report any matter of concern about the humane care and use of laboratory animals at the University. Reports are investigated on behalf of the UCUCA by the UCUCA Office staff and, if necessary, by a (ULAM) veterinary faculty member. Immediate steps are taken to ensure that animal care and use are appropriate and that animal welfare is sustained. The UCUCA is apprised of these investigations and their outcomes at their monthly meetings and makes further recommendations, if warranted. Reports and sources of information are maintained in confidence within University guidelines. To report an animal concern, please call 734-763-8028 or go to (<http://www.ucuca.umich.edu/hotline.htm>).

FREQUENTLY ASKED QUESTIONS

The frequently asked questions (FAQs) highlighted here come from a list of FAQs for research maintained by the Office of Research. To see the complete list, visit (<http://www.med.umich.edu/medschool/research/faq.htm>).

Q) What are the various sources of news and communications?

A) Visit the websites or sign up to join the various email groups and listservs listed below:

• Websites:

- **Medical School Department of Public Relations and Communications** (<http://www.med.umich.edu/prmc>) – This site leads to many news links including a place to join the media list (<http://www.med.umich.edu/news/medialist.htm>) for information on basic science research, clinical/medical studies, embargoed research news, etc.
- **Medical School's Office of Research News & Communications webpage** (<http://www.med.umich.edu/medschool/research/news.htm>) – This webpage includes links to the Biomedical News, Biomedical Pathways, E-News, UMHS Daily Bulletin, etc.

• Email Groups and Listservs:

- **Email Alert Groups** (<http://www.research.umich.edu/funding/groups.html>) – DRDA (Division of Research Development and Administration) maintains several electronic mail groups designed to disseminate information to University of Michigan faculty, staff, and students with specific areas of interest or responsibilities. Those seeking opportunities for funding should consider adding themselves to two lists in particular: DRDA-net and NIH-GROUP.
- **Research Listservs** (<http://www.med.umich.edu/medschool/research/support/listserv.htm>)

- **Basic Science Seminar Calendar** (<http://www.med.umich.edu/medschool/research/seminars/procedures.htm#subscribe>)

UPDATE FROM WASHINGTON, DC

NIH Funding Increase in House Economic Stimulus Proposal

Following close behind the swearing in of a new Congress and the inauguration of President Barack Obama, Washington turns to crafting an economic stimulus package to address the nation's financial crisis. Additional funding for the National Institutes of Health (NIH) is expected to be part of that package.

As a first step in the process, on January 21, 2009 the House Appropriations Committee agreed to an \$825 billion economic stimulus plan. This plan included the following provisions for the NIH.

- \$1.5 billion for biomedical research to study diseases such as Alzheimer's, Parkinson's, cancer, and heart disease. (\$750 million will not be available until October 1, 2009.)
- \$500 million to implement the repair and improvement strategic plan developed by the NIH for its campuses. (\$1.5 billion for NIH to renovate university research facilities and help them compete for biomedical research grants – funds are awarded competitively.)

The Senate Appropriations Committee reportedly will consider its own version of an economic stimulus plan next week. Floor debate in both the House and the Senate and a conference of Congressional leaders to resolve the differences between the two proposals is necessary before a final bill can be signed into law. The goal is to have a package completed by Presidents' Weekend. Once a final package is agreed to, all grant opportunities funded by this package reportedly will be listed in a new (and yet to be up-and-running) federal website named "recovery.gov."

FYI CORNER

Ultra High-Speed Digital Camera Available for Use

An ultra high-speed digital camera is available for rental through the Basic Radiological Sciences ultrasound group in the Department of Radiology. The camera was acquired via a NIH S10 shared instrumentation grant for \$500,000. It consists of two devices: A framing camera and a streak system. The full frame camera is capable of frame rates between 1 kHz (1 ms) and 200 MHz (5 ns) at a resolution of 1360 by 1024 optical (gray-scale) pixels bearing 12 bits resolution. The streak camera records the center line of the full frame field of view at line rates ranging from 200 Hz (5 ms) up to 200 GHz (5 ps). A total of 16 full frame images can be taken as well as 1024 streak lines.

Photography lenses (Nikon) can be attached to magnify objects under investigation or it can be coupled to a auxiliary port of a microscope. The current setup employs a mixture of both. A Nikon optical microscope with a 40x water coupled long working distance objective allows the user to zoom to a camera field of view of 25 x 25 micrometer. The

spectral range of the imaging system ranges from 350 to 800 nm. Built-in electronics allows the user to trigger the camera either internally or externally. Moreover, the user can trigger external devices such as two included pulsed light sources: a 2 millisecond duration, 500 Joules flash light and a 13 microsecond duration, 300 Joules flash light.

The daily cost for the system is \$125. If you would like to obtain more information or see the camera, please contact Dr. Oliver Kripfgans (734-647-0852 or greentom@umich.edu). Information will also be available shortly at (<http://www.ultrasound.med.umich.edu/ODK>).

FUNDING/AWARD OPPORTUNITIES

Funding opportunities listed below are for external limited submissions and/or opportunities within the University of Michigan only. To search for other funding and recognition opportunities, visit (<http://www.med.umich.edu/medschool/research/support/funding.htm>). This webpage contains a link to M-Quest (a database of opportunities for grants, honors, prizes and fellowships created and maintained by the Office of Research) as well as information on email alert groups.

Internal Submissions

LSI and MICHR – Request for Proposals Addressing Translational Research in the Life Sciences

Deadline: Ongoing

The Michigan Institute for Clinical and Health Research (MICHR) and the Life Sciences Institute (LSI) seek to support translational research in LSI's Center for Chemical Genomics (CCG). Funding is available to support high throughput screening projects using the CCG's chemical, natural product extract collection and RNAi libraries. Of particular interest are projects that encompass novel or innovative targets, biomarkers or platforms that have the potential to increase our understanding of disease at the molecular and cellular levels. Applications related to metabolic disease are especially welcome.

All UM faculty members holding the rank of Assistant Professor, Assistant Research Scientist, or above are eligible to apply for these funds. Grants will be for \$10,000 each. The cost of screening projects will vary depending on their scope; therefore, applicants are strongly encouraged to consult the CCG staff for assistance before preparing and submitting a proposal. Inquiries on how to best budget for a screen should be sent to Martha Larsen, Director of High Throughput Screening (mjlarsen@umich.edu).

A selection committee comprised of representatives from LSI and MICHR will review the applications and make the final selection of the project grants. Review criteria include: (1) innovation and quality of science, (2) expertise and ability of the investigators to carry out the proposed research; and (3) feasibility and potential of the project to lead to a novel therapeutic application. Proposals will be reviewed on a periodic ongoing basis until the funds are exhausted.

Proposal Preparation Guidelines: Investigators should prepare a one-page proposal (exclusive of supporting materials) describing the context of the research, its therapeutic and/or translational application and the specific

screening project proposed. Supporting materials should include, at a minimum, biosketches of relevant personnel and an NIH-style budget page.

Please send all materials (in the order specified above) electronically in a single PDF document to Vashni Santee (santee@umich.edu). Additional information can be found on the websites of the CCG (<http://lsi.umich.edu/facultyresearch/centers/chemicalgenomics>) and MICHR (<http://www.michr.umich.edu>).

UM Cancer Center Grants

Deadline: First Thursday of each month (4:00 PM) as funds are available. Grants may not be reviewed in a given month if too few are received. Grants are not reviewed in July and August.

For further information, visit (http://sitemaker.umich.edu/cccresearch/cancer_research_committee_crc_grants).

- **Research Grants** are available for any faculty-investigator in any unit of the University for his/her cancer-related research, or for any interesting and innovative collaboration between scientists. In general, the funds may not be used for salary support for persons holding a Ph.D. or M.D. degree. The total amount requested must not exceed \$40,000.
- **Idea Grants** are available for an investigator who has a novel and innovative idea for cancer research. Preliminary data to support the feasibility of the proposal studies may be included, but are not required. In general, the funds may not be used for salary support for persons holding a Ph.D. or M.D. degree. However, exceptions to this stipulation will be made on a case-by-case basis. Funding for the Idea Grants will not exceed \$30,000. Recipients of Idea grants will be encouraged to apply subsequently for Munn Research Grants.

UM Cardiovascular Center Research Awards

Deadline: February 18, 2009

The University of Michigan Cardiovascular Center (CVC) is seeking applications for four grant programs:

- **McKay Grant** – Five to eight grants are generally awarded from \$5,000 to \$25,000 for new cardiovascular investigators in any U-M discipline related to cardiovascular disease to initiate projects that will lead to extramural funding.
- **Innovative/Collaborative Faculty Research Grant** – (New this year!) One \$25,000 faculty grant will be awarded to faculty with appointments at the Assistant Professor level and above, who are members of the CVC Basic Science Research Team.
- **Gelman Innovation Grant** – This competition is intended to award innovators or innovative approaches to general cardiovascular science. One grant with a maximum award of \$15,000 will be awarded.
- **Gelman Complementary Medicine Grant** – This competition is intended to award proposals to study complementary/alternative approaches to cardiovascular medicine. One grant with a maximum award of \$10,000 will be awarded.

For more information, visit (http://www.med.umich.edu/cvc/research/laboratory_grant.html).

UM Henry Russel Lectureship

Deadline: March 30, 2009

Considered one of the University's highest honors for a senior member of its active faculty, the Henry Russel Lectureship is awarded annually in recognition of exceptional achievements in research, scholarship and/or creative endeavors, and an outstanding record of teaching, mentoring and service. One award of \$2,000 will be made annually. In addition, the recipient will be invited to deliver the Henry Russel Lecture.

Senior faculty with the rank of professor may be nominated for the Henry Russel Lectureship. Nominees must be active members of the faculty both at the time of nomination and at the time of delivering the Russel Lecture. (Departments nominating faculty who are close to retirement may wish to consider Distinguished Faculty Achievement Awards as an alternative way of seeking recognition for the faculty member's achievements and contributions.) Departments and programs are encouraged to nominate women, minorities, and members of other groups historically underrepresented in their disciplines. For full details, visit (http://www.rackham.umich.edu/faculty_staff/).

• • • *Deadline Watch* • • •

David and Lucile Packard Foundation Fellowships for Science and Engineering

Internal Deadline: February 13, 2009

(<http://www.packard.org/genericDetails.aspx?RootCatID=3&CategoryID=152>)
Contact Jane Ritter (ritterj@umich.edu or 734-763-1290) with questions.

BMRC New Initiatives Fund to Support Basic Science Research Deadline: February 16, 2009

(<http://www.med.umich.edu/medschool/research/support/funding/newinitiatives.htm>)

For questions, contact Camille Mrozowski at 734-615-8802 or (cmrozow@umich.edu).

Michigan Alzheimer's Disease Research Center (MADRC) Pilot Project Funding

Deadline: February 16, 2009 – 5:00 PM

(<http://www.med.umich.edu/alzheimers/Research/pilot.htm>)
For questions, contact Courtney Kennedy at 734-615-8462 or (clkenned@umich.edu).

OVPR UM Research Faculty Awards

Deadline: February 20, 2009

(<http://www.research.umich.edu/contacts/ovpr/RFawards/>)

- **Collegiate Research Professorship**
- **Research Faculty Achievement Award**
- **Research Faculty Recognition Award**

Rackham UM Faculty Awards

Deadline: Various (see below)

(http://www.rackham.umich.edu/faculty_staff/)

- **Distinguished Faculty Achievement Awards**
Deadline: February 20, 2009
- **Faculty Recognition Awards**
Deadline: February 20, 2009
- **Distinguished University Professorships**
Deadline: March 9, 2009

UMMS AWARDED GRANTS

External Awarded Grants

Graduate and Postdoctoral Studies

PI: Dirita, Victor

Title: CENTOCOR/MICHIGAN POSTDOCTORAL TRAINING PROGRAM
Sponsor: Centocor, Inc.

Project Dates and Amount of Award: 12/22/08-12/21/13; \$1,900,000

Human Genetics

PI: Li, Jun

Title: HUDSONALPHA CANCER GENOME CHARACTERIZATION CENTER

Sponsor: NIH - Subcontracts TO Hudson Alpha Institute for Biotechnology
Project Dates and Amount of Award: 09/01/08-08/31/09; \$25,404

Internal Medicine

PI: Bhan, Urvashi

Title: TLR9 MEDIATED DENDRITIC CELL RESPONSES IN HYPER-SENSITIVITY PNEUMONITIS

Sponsor: NIH 1 K08 HL 094762 01

Project Dates and Amount of Award: 01/01/09-12/31/13; \$667,203

PI: Eagle, Kim

Title: PATIENT POPULATION ASSESSMENT

Sponsor: Gore, W. L. & Associates, Inc.

Project Dates and Amount of Award: 04/01/08-03/31/09; \$5,000

PI: Hammer, Gary

Title: MECHANISMS OF ADRENAL DIFFERENTIATION

Sponsor: NIH 2 R01 DK 062027 06

Project Dates and Amount of Award: 02/01/09-01/31/13; \$1,299,147

PI: Mor-Vaknin, Nirit

Title: THE ROLE OF DEK IN THE DEVELOPMENT OF ARTHRITIS

Sponsor: NIH 1 R03 AR 056748 01

Project Dates and Amount of Award: 12/26/08-11/30/11; \$226,356

PI: Phillips, Kristine

Co-I: Schiopu, Elena (Int Med-Rheumatology) / Seibold, James (Int Med-Rheumatology)

Title: EVALUATION OF THE EXPRESSION PROFILE OF INFLAMMATION AND FIBROSIS MEDIATORS IN SKIN, BLOOD AND URINE FROM SUBJECTS WITH DIFFUSE SYSTEMIC SCLEROSIS

Sponsor: Centocor, Inc.

Project Dates and Amount of Award: 01/06/09-12/31/10; \$95,000

PI: Ramnath, Nithya

Co-I: Brenner, Dean (Int Med-Hematology/Oncology)

Title: INTRAVENOUS (IV) CALCITRIOL WITH FIXED DOSE OF CISPLATIN AND DOCETAXEL IN ADVANCED NON-SMALL CELL LUNG CANCER (A PHASE I/II CLINICAL TRIAL OF)

Sponsor: NIH 7 R21 CA 128193 02

Project Dates and Amount of Award: 12/26/08-01/31/10; \$577,014

PI: Reddy, Pavan

Title: VORINOSTAT PLUS TACROLIMUS & MYCOPHENOLATE TO PREVENT GRAFT HOST DISEASE FOLLOWING REDUCED INTENSITY CONDITIONING RELATED DONOR ALLOGENEIC TRANSPLANT (UMCC 2008.095: PHASE 2 TRIAL OF)

Sponsor: Merck and Company, Inc.

Project Dates and Amount of Award: 12/18/08-12/31/10; \$378,125

Neurology

PI: Corey, Joseph

Title: NANOFIBER SCAFFOLDS FOR DIRECTED NERVE REGENERATION

Sponsor: Paralyzed Veterans of America (PVA)

Project Dates and Amount of Award: 01/01/09-12/31/10; \$150,000

PI: Parent, Jack

Co-I: Isom, Lori (Pharmacology Department) / Meisler, Miriam (Human Genetics Department)

Title: NOVEL METHOD TO STUDY HUMAN EPILEPSY GENE MUTATIONS

Sponsor: American Epilepsy Society

Project Dates and Amount of Award: 01/01/09-12/31/09; \$50,000

Pathology

PI: Chinnaiyan, Arul

Co-I: Lnu, Sooryanarayana (Pathology Department) / Mehra, Rohit (Ctr fr Translational Pathology) / Montie, James (Urology Surgery) / Shah, Rajal (Pathology Department) / Tomlins, Scott (Pathology Department) / Tsodikov, Alexander (Biostatistics Department) / Wei, John (Urology Surgery)

Title: MOLECULAR SUB-TYPING OF PROSTATE CANCER BASED ON RECURRENT GENE FUSIONS

Sponsor: NIH 1 R01 CA 132874 01 A1

Project Dates and Amount of Award: 03/01/09-12/31/13; \$1,236,000

Pediatrics & Communicable Diseases

PI: Dowling, James

Co-I: Feldman, Eva (Neurology Department)

Title: MYOTUBULARIN AND THE PATHOGENESIS OF MYOTUBULAR MYOPATHY

Sponsor: NIH 1 K08 AR 054835 01 A2

Project Dates and Amount of Award: 12/18/08-11/30/13; \$640,400

PI: Yoon, Esther

Title: VARIATION IN ANTIHYPERTENSIVE PRESCRIBING PATTERNS IN CHILDREN

Sponsor: NIH 1 K23 HL 092060 01 A1

Project Dates and Amount of Award: 01/15/09-12/31/13; \$688,500

Pharmacology

PI: Lucchesi, Benedict

Title: ASSESSING THE CARDIOPROTECTIVE EFFECTS OF NECROSTATINS

Sponsor: TetraLogic Pharmaceuticals

Project Dates and Amount of Award: 12/01/08-04/30/09; \$74,488

PI: Woods, James

Co-I: Sunahara, Roger (Pharmacology Department) / Tesmer, John (Pharmacology Department)

Title: HIGH-ACTIVITY OF COCAINE ESTERASE FOR DRUG ADDICTION

Sponsor: NIH - Subcontracts TO University of Kentucky R01

Project Dates and Amount of Award: 08/15/08-06/30/09; \$121,375

Radiology

PI: Koeppe, Robert

Title: ELAN BAPINEUZUMAB (ELN115727-301/302) PET-SUB-STUDY

Sponsor: Elan Pharmaceutical Research Corporation

Project Dates and Amount of Award: 10/08/08-04/08/10; \$388,108

PI: Krishnamurthy, Venkataramu

Co-I: Barrie, William (Internal Medicine Department) / Eliason, Jonathan (Vascular Surgery Section) / Henke, Peter (Vascular Surgery Section) / Rectenwald, John (Vascular Surgery Section)

Title: PHARMACOMECHANICAL CATHETER-DIRECTED THROMBOLYSIS FOR ACUTE DVT - (ATTRACT) TRIAL VA

Sponsor: NIH - Subcontracts TO Washington University U01 HL 088476

Project Dates and Amount of Award: 06/09/08-03/31/09; \$1,500

Surgery

PI: Cook, Keith

Co-I: Bull, Joseph (Biomedical Engineering)

Title: COMPLIANT THORACIC ARTIFICIAL LUNGS

Sponsor: NIH 1 R01 HL 089043 01 A2

Project Dates and Amount of Award: 01/01/09-12/31/12; \$1,447,940

PI: Cook, Keith

Title: DEVELOPMENT OF A COMPACT CARDIOPULMONARY SUPPORT DEVICE (CCSD)

Sponsor: NIH - Subcontracts TO MC3, Inc.

Project Dates and Amount of Award: 09/15/08-07/31/09; \$77,450

PI: Liu, Yang

Co-I: Lubman, David (Surgery Department) / Zheng, Pan (Surgery Department)

Title: CD24 IN CANCER RESISTANCE AND IMMUNOTHERAPY

Sponsor: NIH 2 R01 CA 058033 16 A2

Project Dates and Amount of Award: 01/01/09-12/31/13; \$1,276,355

PI: Patel, Himanshu

Title: HISTORICAL MORTALITY RATES FOLLOWING TREATMENT OF COMPLICATED, ACUTE TYPE B AORTIC DISSECTION

Sponsor: Medtronic Vascular, Inc

Project Dates and Amount of Award: 12/18/08-12/17/09; \$39,300

PI: Westfall, Margaret

Co-I: Day, Sharlene (Int Med-Cardiology) / Misek, David (General Surgery Section)

Title: PROTEIN EXPRESSION IN FAILING HUMAN HEARTS

Sponsor: NIH 1 R21 HL 089193 01 A2

Project Dates and Amount of Award: 12/23/08-11/30/10; \$424,875

UMMS RESEARCH PUBLICATIONS

Biological Chemistry

Agrawal N, Banerjee R. Human polycomb 2 protein is a SUMO E3 ligase and alleviates substrate-induced inhibition of cystathionine beta-synthase sumoylation. *PLoS ONE*. 2008; 3(12): e4032.

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Brinkmeier ML, Davis SW, Carninci P, Macdonald JW, Kawai J, Ghosh D, Hayashizaki Y, Lyons RH, Camper SA. Discovery of transcriptional regulators and signaling pathways in the developing pituitary gland by bioinformatic and genomic approaches. *Genomics*. 2008 Dec 30 (Epub ahead of print).

Buchholz TJ, Geders TW, Bartley FE 3rd, Reynolds KA, Smith JL, Sherman DH. Structural basis for binding specificity between subclasses of modular polyketide synthase docking domains. *ACS Chem Biol*. 2009 Jan 16; 4(1): 41-52.

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Keshamouni VG, Jagtap P, Michailidis G, Strahler JR, Kuick R, Reka AK, Papoulias P, Krishnapuram R, Srirangam A, Standiford TJ, Andrews PC, Omenn GS. Temporal Quantitative Proteomics by iTRAQ 2D-LC-MS/MS and Corresponding mRNA Expression Analysis Identify Post-Transcriptional Modulation of Actin-Cytoskeleton Regulators During TGF-beta-Induced Epithelial-Mesenchymal Transition. *J Proteome Res*. 2009 Jan 2; 8(1): 35-47.

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