

HEADLINES

Faculty Research Expertise Tool Now Available

The Medical School Office of Research is pleased to announce the launch of a research expertise identification tool: Faculty Research Profiles (<http://www.research.profiles.collexis.com/umichigan/>).

In partnership with Medical School Information Systems (MSIS) and Collexis, the Office of Research is committed to making it easier for faculty, staff, and students to identify who is working in what scientific areas at the Medical School, assisting you in finding collaborators, mentors, advisers, and key research experts.

Faculty Research Profiles offer, for the first time, a comprehensive compilation of our medical research expertise—automatically building up-to-date research profiles for UMMS faculty based on their PubMed publications. This tool will enable you to browse by department or search by key concept or last name, allowing you to explore “who is doing what” in our organization.

Some key things you should know:

1. Access is limited to computers on the campus network based on initial feedback from the Associate Chairs for Research regarding how external entities may use this information. (Based on how you access the campus network from home, you may or may not have home access.) We will continue to assess this position as we receive feedback from a broader user base. To that end, after spending some time using the tool, we would appreciate your feedback on keeping this tool in a secured environment or making it available to the public for the benefit of future students, recruits, alumni, donors, collaborators, and sponsors.

2. Who is included in the Faculty Research Profiles?

The Research Profiles tool is intended to highlight our research prominence and, therefore, currently includes only faculty with a Medical School appointment in the Clinical, Research and Instructional tracks, and who have published in PubMed. Clinical Instructors and Clinical Lecturers, although critical to our organization, have not been included to date, due to having primarily a clinical focus.

3. The concept terminology used throughout the tool

is based on Medical Subject Headings (MeSH) and not publication key words. MeSH terms are created and maintained by the National Library of Medicine and utilize a controlled vocabulary to describe concepts, including diseases, chemicals, procedures, anatomy and more. Built into the tool is a thesaurus that translates key words or concepts into MeSH terms, such as “colon cancer” to “colonic neoplasms.”

4. Educational materials and tutorials that can assist you in learning how to use the tool can be found at (<http://www.med.umich.edu/medschool/research/support/profiles.htm>). We are interested in improving these resources over time, so please let us know of any enhancements that can be made to these materials.

The Office of Research is working closely with the Health Science Libraries (HSL) and Medical School Information Services (MSIS) to make the Faculty Research Profiles tool broadly available and a helpful resource. Please direct any questions to (collexis-help@umich.edu).

Office of Research Welcomes Christine Black, M.L.S.

Christine Kahan Black, M.L.S., has joined the Office of Research as Assistant Director for Research Services. Ms. Black brings significant experience and expertise having worked as a grant proposal writing specialist at DRDA and the UM School of Nursing. Before that, she was the principal investigator of federally funded projects at the School of Dentistry, including the “Women in Science Videotape Series” and “Science Abled: Return on Equity.” Ms. Black also presents workshops on developing grant proposals for DRDA and universities across the country.

Ms. Black’s primary role will be to enhance services that assist faculty with the research proposal development process, including writing, editing and training. In addition, she will develop resources that ease the administrative burden of non-scientific sections of proposals. You may contact Chris with suggestions for proposal development assistance at (ckblack@umich.edu) or 734-615-1630.

New Routing Process for Internal Grants

Effective July 1, 2009, internal grants (e.g.: OVPR, pilot grants from various units) that require a Medical School Dean’s signature will no longer be handled by the office staff of the Senior Associate Dean for Research (Steve Kunkel, Ph.D.). Instead, the Medical School Grant Review & Analysis Office will be serving as the Office of Research signature on internal applications.

Please submit the administrative shell directly to the Grant Review & Analysis Office. Applications may be submitted electronically to (msgrants@umich.edu), or you may hand-carry hard copies to the office at 3112 Med Sci I. In either case, please include clear instruction on what the Grants Office should do when signature is obtained.

As before, there is currently no hard deadline for these to be received, but please use good judgment on reasonable lead times in order to give staff time to complete.

Please contact Heather Offhaus for questions at (hmills@umich.edu) or 734-763-4272.

RESEARCH COMPLIANCE TRAINING AND EDUCATION

Human Research

IRB MED Frequently Asked Question:

Must I obtain an IND (Investigational New Drug) if my study involves off-label use of an FDA-approved drug?

Usually, such studies require an IND if *any* of the following statements is true:

1. The drug's manufacturer intends to report your study to the FDA in support of a *new indication* for use.
2. The study will support a significant change in the drug's *labeling*.
3. The study will support a significant change in the drug's *marketing*.
4. The investigation involves a *route of administration* or *dosage level*, use within a *patient population*, or any other factor significantly *raising the drug product's risks* (or lowering acceptability of its risks).

In cancer studies, requirement 4 has special meaning within the oncology-therapy setting, especially when drugs are administered in excess of labeled doses, used with other treatments, and/or used within different populations.

The following are examples of cancer studies unlikely to be exempt from IND regulations:

- Unless adequately described in the literature, initial studies of *new drug combinations* should usually be performed under an IND because of the possible occurrence of synergistic toxicity.
- Initial studies in humans of changes in the *schedule of drug administration*. Some drugs have demonstrated significantly greater toxicity when given by an alternative schedule (e.g., methotrexate demonstrates much more hematologic toxicity when given by prolonged administration compared to intermittent administration).
- Initial studies of drugs intended to be chemosensitizers, radiosensitizers, or resistance modulators.

In all cases, the IRB must review the study, informed consent must be sought, and the investigation must be conducted in compliance with the requirements of 21 CFR 312.7.

Investigators should also be aware that the MICHR IND/IDE Investigator Assistance Program (MIAP) has been established to provide comprehensive regulatory support, guidance and education services to faculty investigators involved in US FDA regulated clinical research at the University of Michigan. For more information see: (<http://www.michr.umich.edu/programs/reg-services.html>).

If you have any questions about this article, please contact Jan Hewett in the IRB MED office at 734-763-4768.

Animal Research

UCUCA Records Policy

The University Committee on Use and Care of Animals approved the "UCUCA Policy on Animal Procedure Records." This policy requires that surgery records be kept for all species and be contained in the animal housing room for

the post-operative period. In addition, records are required for anesthetic monitoring for non-rodent USDA animals and for monitoring tumor burden in animals. The records for the non-rodent USDA covered animals must be submitted to the Unit for Laboratory Animal Medicine (ULAM) to be kept with the animals' permanent medical records.

This new policy is in response to the recent Association for Assessment and Accreditation of Laboratory Animal Care, International (AAALAC) site visit and to assist the veterinary staff in providing appropriate veterinary care.

Example records are provided in the documents, "Guidelines for Performance of Survival Surgery in Rodents" and the "Guidelines for the Performance of Surgery in Non-Rodent Mammals." These documents along with the new policy are available on the UCUCA website at (<http://www.ucuca.umich.edu>).

UCUCA/ULAM Town Hall Meeting Was a Success!

The UCUCA and ULAM hosted a town-hall style meeting on May 18, 2009 to discuss the changing environment for animal research compliance. The meeting included presentations describing the changes in compliance and outlined the new policies and procedures that were implemented to ensure the University remains in compliance with all animal research laws, regulations and standards. The meeting was well received, and there have been requests for additional meetings. The UCUCA is planning on hosting another town-hall style meeting in the fall. In the interim, the slides from the May 18 meeting are posted on the UCUCA website at (<http://www.ucuca.umich.edu/update.htm>).

GRADUATE AND POSTDOC STUDIES

UMMS Graduate Student Award for Excellence in Research

Deadline: August 14, 2009

Any graduate student who is actively pursuing a degree in one of the 13 degree-granting programs within the PIBS umbrella can be nominated for the Graduate Student Award for Excellence in Research. The criterion for nomination include:

- Scientific excellence, as judged by publications, academic record, or other forms of recognition for scientific accomplishment. (Copies of any publications should be included with the nomination.)

When determining nominees, please consider the following:

- Quality of the science, not just number of papers (including quality of the mentor's science).
- Quality of the journals in which the work was published.
- Level of scientific independence in the laboratory

Nominations may originate from directors, department chairs, program directors, faculty, postdocs, or students. However, no more than two nominations from any given department or interdisciplinary program will be accepted or considered. Typically, up to two awards of up to \$500 each will be made at a fall awards ceremony. Visit (<http://www>).

med.umich.edu/medschool/research/gradstudentawards.pdf) for complete details, cover sheet forms and required CV format. Contact the Program in Biomedical Sciences (734-647-7005) with any questions.

UMMS Graduate Student Award for Excellence in Teaching and Service
Deadline: August 14, 2009

Graduate students who are actively pursuing a degree in one of the 13 degree-granting programs within the PIBS umbrella and who have (1) participated in teaching as a teaching assistant, lecturer, and/or tutor and (2) demonstrated service to the University and/or community are eligible to compete for the Graduate Student Award for Excellence in Teaching and Service. Nominees must demonstrate:

- Effectiveness and creativity as a teacher.
- Effective interactions with students—both inside and outside the classroom.
- Potential for continued growth as a scholar and teacher.
- Service to the University and/or its community—various committees, event management, and outreach activities.

When determining nominees, please consider the following:

- The level of involvement of the TA in the given course.
- Was the TA the only one for a given course?
- Duration of the assistantship.
- What was the student's service contribution? Was it substantial?

Nominations may originate from directors, department chairs, program directors, faculty, postdocs, or students. However, no more than two nominations from any given department or program will be accepted or considered. Typically, up to two awards of up to \$500 each will be made at a fall awards ceremony. Visit (<http://www.med.umich.edu/medschool/research/gradstudentawards.pdf>) for complete details, cover sheet forms and required CV format. Contact the Program in Biomedical Sciences (734-647-7005) with any questions.

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.

External Limited Submissions

These are opportunities in which the sponsor has limited the number of proposals allowed from an institution. These competitions require an internal review to select the proposals to submit to the sponsor from the University of Michigan.

Abstracts listed here are general information about these funding programs. We strongly urge interested applicants to visit

the listed website to verify complete eligibility, program information, and application procedures before submitting an application.

The Hartwell Foundation Individual Biomedical Research Award

Internal Deadline: July 17, 2009

Foundation Deadline: November 2, 2009

The Hartwell Foundation Individual Biomedical Research Award provides support for three years at \$100,000 direct cost per year. The goal of the program is to support early-stage, innovative, and cutting-edge biomedical research that has not yet qualified for significant funding from outside sources and that should benefit children.

Candidates should (1) **be a citizen of the United States**, (2) hold a full-time appointment in the sponsoring institution, and (3) be eligible to serve as a principal investigator in biomedical research. **UM may nominate four candidates.**

For consideration as an institutional nominee, submit the following **electronically in a single PDF document to (feldkamp@umich.edu) by July 17, 2009**: a 3-page research summary, a NIH formatted biosketch, and a nominating letter from the department chair. UM candidates selected to be nominated will be informed by early September.

Visit (<http://www.med.umich.edu/medschool/research/support/hartwell.pdf>) for a complete copy of The Hartwell Foundation's "Application Process and Administrative Guidelines." Contact Julie Feldkamp (734-763-4522 or feldkamp@umich.edu) or Marvin Parnes (734-764-7231 or mgparnes@umich.edu) with any questions.

Searle and Pew Scholars Program Awards

Internal Deadline: Thursday, August 6, 2009

Nominations of faculty from all units of the University are welcome for both the Searle Scholars Program and the Pew Scholars Program in the Biomedical Sciences. **Only one nomination package is required for the internal selection of the University's nominees for both programs.** Faculty members who were nominated but not selected for the 2009 programs may apply for the 2010 programs if they continue to meet program eligibility requirements. Specific program information is noted below.

The internal nomination package must include:

- A letter of nomination from the appropriate department chair or section head. This letter should indicate if the candidate is to be considered for the Searle and/or Pew Scholars Programs. Please also include the nominee's UM start date as an assistant professor (month/date/year).
- A one to five page research statement including (1) current areas of research and (2) an overview of the specific areas of research the nominee would like to pursue with this funding award. Please also indicate the significance of this work and explain why it is particularly novel and important.
- A current copy of the nominee's NIH formatted biosketch including a list of any current awards held by the nominee or awards they will have that overlap with the funding period of the Searle or Pew awards.
- Any recent letters of support attesting to the potential of the nominee and the quality and scope of his/her

research. These letters are for internal review; if they were obtained for another recent award review, please use those.

Please submit all application materials in a single PDF document in the order listed above by **August 6, 2009** to (limitedsubmissions@umich.edu). **We acknowledge receipt of all electronic submissions by the end of the next business day. If you do not receive a response from us, please call us at 734-615-8802.**

- **Searle Scholars Program**

(<http://www.searlescholars.net>)

Applicants for year 2010 awards will be expected to be pursuing independent research careers in biochemistry, cell biology, genetics, immunology, neuroscience, pharmacology, and related areas in chemistry, medicine, and the biological sciences. Candidates should have begun their first appointment at the **assistant professor level on or after July 1, 2008** and therefore be in their first or second year in a tenure-track position. The awards are grants of \$100,000 per year for three years, with funding for the second and third year contingent upon acceptable progress reports. The sponsor deadline is September 25, 2009. **The University of Michigan is allowed to submit two nominations.**

- **Pew Scholars Program in the Biomedical Sciences**

(http://www.pewtrusts.org/our_work_category.aspx?id=194)

The Pew Scholars Program in the Biomedical Sciences is designed to support young investigators of outstanding promise in science relevant to the advancement of human health. The award is intended to provide support for junior faculty as they establish their laboratories. Candidates must hold a doctorate in medicine or biomedical sciences. As of November 1, 2009, candidates must hold full time appointments at the rank of assistant professor. On July 1, 2010, they must not have been in this appointment for more than three years. Scholars may not simultaneously be supported by similar private foundation awards in excess of \$50,000 for the first two years of their Pew Scholarship. However, candidates who receive awards that support their salary only are eligible to apply. The award is \$60,000 per year for four years subject to annual review of the Scholar's progress. The sponsor's deadline is November 2, 2009. **The University of Michigan is allowed to submit one nomination.**

Contact Camille Mrozowski at 734-615-8802 or (cmrozow@umich.edu) with any questions about these programs.

• • • *Deadline Watch* • • •

UM Bone and Joint Injury Prevention and Rehabilitation Center Request for Systematic Review Proposals

Deadline: July 15, 2009 (5:00 PM)

(http://www.med.umich.edu/medschool/research/support/bjiprc_rfp.pdf)

Michigan Diabetes Research and Training Center (MDRTC) Grant Programs

Deadline: August 3, 2009 (5:00 PM)

(<http://www.med.umich.edu/mdrtc/pilot>)

- **Pilot/Feasibility Study Grant Program (MDRTC)**
- **Diabetes Interdisciplinary Study Program (MDRTC/MCDC)**

UMMS AWARDED GRANTS

External Awarded Grants

Currently, due to limitations on data collection, we are unable to identify projects awarded with multiple PIs. As the eRPM system is used for proposals in 2009, we will be able to publish those awards accurately. We apologize for any misleading project information this causes.

Biological Chemistry

PI: Fribley, Andrew

Title: HIGH THROUGHPUT CHEMICAL GENOMIC SCREENING TO IDENTIFY NOVEL ER STRESS-INDUCING CHEMOTHERAPIES FOR ORAL SQUAMOUS CELL CARCINOMA

Sponsor: NIH 1 K99 DE 019678 01

Project Dates and Amount of Award: 05/05/09-04/30/11; \$274,644

Cell & Developmental Biology

PI: Giger, Roman

Title: NOGO RECEPTOR FAMILY: NOVEL MECHANISMS TO INHIBIT GROWTH (TRANSFER)

Sponsor: NIH 7 R01 NS 047333 05

Project Dates and Amount of Award: 09/01/08-04/30/10; \$283,852

Dermatology

PI: Harting, Mandy

Title: MOLECULAR ANALYSES OF RETINOID-INDUCED DERMATITIS IN AGED/PHOTOAGED HUMAN SKIN (Investigation Grant)

Sponsor: Dermatology Foundation

Project Dates and Amount of Award: 07/01/09-06/30/10; \$20,000

PI: Harting, Mandy

Title: MOLECULAR ANALYSES OF RETINOID-INDUCED DERMATITIS IN AGED/PHOTOAGED HUMAN SKIN (Career Award)

Sponsor: Dermatology Foundation

Project Dates and Amount of Award: 07/01/09-06/30/10; \$55,000

PI: Rittie, Laure

Title: MOLECULAR AND CELLULAR BASIS OF IMPAIRED WOUND HEALING IN AGED HUMAN SKIN IN VIVO

Sponsor: Dermatology Foundation

Project Dates and Amount of Award: 07/01/09-06/30/10; \$20,000

Emergency Medicine

PI: Cunningham, Rebecca

Co-I: Blow, Frederic (Psych HlthSvc Outcome Research) / Walton, Maureen (Psych Substance Abuse) / Zimmerman, Marc (Hlth Behavior & Hlth Ed Dept)

Title: SUBSTANCE USE AMONG VIOLENTLY INJURED YOUTH IN AN URBAN ER: SERVICES & OUTCOMES

Sponsor: NIH 1 R01 DA 024646 01 A2

Project Dates and Amount of Award: 05/01/09-04/30/14; \$3,008,486

Internal Medicine

PI: Arvan, Peter

Title: THYROCYTE PROTEIN TRANSPORT TO THE CELL SURFACE

Sponsor: NIH 2 R01 DK 040344 22 A1

Project Dates and Amount of Award: 05/01/09-03/31/13; \$1,913,991

PI: Erba, Harry

Title: 2008.110: A PHASE 2 TRIAL OF MLN8237, AN ORAL AURORA A KINASE INHIBITOR, IN ADULT PATIENTS WITH ACUTE MYELOGENOUS LEUKEMIA AND HIGH-GRADE

Sponsor: Millennium TO Quintiles, Inc.

Project Dates and Amount of Award: 06/01/09-11/30/12; \$382,188

PI: Erba, Harry

Title: WEEKLY ALVOCIDIB IN PATIENTS WITH PREVIOUSLY TREATED B-CELL CHRONIC LYMPHOCYTIC LEUKEMIA (CCL) OR PROLYMPHOCYTIC LEUKEMIA (PLL) ARISING FROM CLL (UMCC 2008.059: A MULTICENTER, OPEN-LABEL, SINGLE ARM STUDY OF)

Sponsor: Sanofi-Aventis Pharmaceuticals

Project Dates and Amount of Award: 04/15/09-04/16/16; \$1,756,161

PI: Glaser, Thomas

Co-I: Nelson, Christine (Ophthalmology & Visual Science)

Title: GENETIC BASIS OF CONGENITAL ANOPHTHALMIA

Sponsor: NIH 1 R01 EY 019497 01

Project Dates and Amount of Award: 04/01/09-03/31/14; \$1,846,775

PI: Han, Meilan
Co-I: Flaherty, Kevin (Int Med-Pulm./Critical Care) / Martinez, Fernando (Int Med-Pulm./Critical Care) / Murray, Susan (Biostatistics Department)
Title: IMPACT OF GENDER ON SYMPTOMS AND PROGRESSION OF IPF
Sponsor: NIH 1 K23 HL 093351 01 A1
Project Dates and Amount of Award: 05/01/09-04/30/14; \$556,004

PI: Hayward, Rodney
Title: RWJ CLINICAL SCHOLARS 3RD YEAR COHORT (2009-2010)
Sponsor: Johnson, Robert Wood, Fdn.
Project Dates and Amount of Award: 07/01/09-06/30/10; \$197,579

PI: Henry, Norah
Title: PACLITAXEL COMBINED WITH TRASTUZUMAB, LAPATINIB, OR BOTH AS NEOADJUVANT TREATMENT OF HER2-POSITIVE PRIMARY BREAST CANCER (RANDOMIZED PHASE III TRIAL OF)
Sponsor: Cancer And Leukemia Group B Foundation
Project Dates and Amount of Award: 02/02/08-02/02/12; \$14,000

PI: Herman, William
Co-I: Brown, Morton (Biostatistics Department) / Taylor, George (Cariology, Restor Sci & Endo)
Title: SCREENING FOR TYPE 2 DIABETES IN DENTAL OFFICES
Sponsor: Delta Dental Fund TO Renaissance Health Services Corp
Project Dates and Amount of Award: 06/01/09-05/31/11; \$485,903

PI: Humes, H
Title: ASSESSMENT OF A BRECS IN A CHRONIC SHEEP MODEL
Sponsor: Defense, Department of-Other TO Innovative BioTherapies
Project Dates and Amount of Award: 01/01/09-08/31/09; \$104,584

PI: Johnstone, Duncan
Title: FAT1 AND CONVENTIONAL KINESIN IN LATERAL POLARITY
Sponsor: NIH 1 K08 DK 082616 01
Project Dates and Amount of Award: 07/01/09-06/30/14; \$740,880

PI: Lama, Vibha
Title: MESENCHYMAL STEM CELLS AS BIOMARKERS AND BIOMODULATORS OF CHRONIC ALLOGRAFT REJECTION IN HUMAN LUNG TRANSPLANTATION
Sponsor: American Society of Transplantation
Project Dates and Amount of Award: 07/01/09-06/30/22; \$80,000

PI: Lama, Vibha
Title: CELLULAR AND BIOCHEMICAL MODULATION OF INFLAMMATION AND FIBROSIS IN SYSTEMIC SCLEROSIS
Sponsor: Scleroderma Foundation
Project Dates and Amount of Award: 05/01/09-04/30/10; \$50,000

PI: Lao, Christopher
Title: GDC-0449 IN PATIENTS WITH ADVANCED BASAL CELL CARCINOMA (2008.076: A PIVOTAL PHASE II, MULTICENTER, SINGLE-ARM, TWO-COHORT TRIAL EVALUATING THE EFFICACY AND SAFETY OF)
Sponsor: Genentech, Inc.
Project Dates and Amount of Award: 04/01/09-03/31/13; \$195,272

PI: Luke, Amy
Title: A MECHANISM FOR THE AUTO-PROPAGATION OF HUMAN FIBROBLAST CELLS
Sponsor: Crohn's and Colitis Foundation
Project Dates and Amount of Award: 06/22/09-08/10/09; \$2,500

PI: Malek, Sami
Co-I: Kujawski, Lisa (Int Med-Hematology/Oncology) / Shedden, Kerby (LSA Statistics)
Title: GENOMIC COMPLEXITY AND CLINICAL OUTCOME IN CHRONIC LYMPHOCYTIC LEUKEMIA
Sponsor: NIH 1 R01 CA 136537 01 A1
Project Dates and Amount of Award: 07/01/09-04/30/14; \$1,592,046

PI: Marrero, Jorge
Title: GIDEON: GLOBAL INVESTIGATION OF THERAPEUTIC DECISION IN HEPATOCELLULAR CARCINOMA AND OF ITS TREATMENT
Sponsor: Bayer Corporation
Project Dates and Amount of Award: 05/01/09-04/30/14; \$286,800

PI: Myers Jr, Martin
Title: DEVELOPMENTAL MECHANISMS OF LEPTIN RESISTANCE
Sponsor: NIH 2 R01 DK 057768 10
Project Dates and Amount of Award: 05/05/09-03/31/13; \$2,076,824

PI: Pennathur, Subramaniam
Co-I: Kaplan, Mariana (Int Med-Rheumatology)
Title: DYSFUNCTIONAL HDL, RHEUMATOID ARTHRITIS AND CARDIOVASCULAR DISEASE
Sponsor: Amer College of Rheumatology
Project Dates and Amount of Award: 07/01/09-06/30/11; \$400,000

PI: Riddell IV, James
Title: NOVEL COMBINATION OF MARAVIROC + ATAZANAVIR / RITONAVIR VS ATAZANAVIR / RITONAVIR + TENOFOVIR / ETRICITABINE FOR THE TREATMENT OF TREATMENT NAIVE HIV-1 INFECTED PATIENTS WITH R5 HIV-1 (PILOT STUDY OF)
Sponsor: Pfizer Foundation TO ICON Clinical Research, Inc.
Project Dates and Amount of Award: 06/01/09-05/31/11; \$32,732

PI: Rogers, Mary
Co-I: Langa, Kenneth (Int Med-General Medicine)
Title: BLOOD TRANSFUSIONS: GENDER DIFFERENCES IN UTILIZATION, PREDICTORS, AND OUTCOMES
Sponsor: NIH 1 R21 HL 093129 01 A1
Project Dates and Amount of Award: 07/01/09-06/30/11; \$438,412

PI: Saad, Richard
Title: COLLECTION OF BLOOD SAMPLES FOR THE DISCOVERY OF BIOMARKERS ASSOCIATED WITH IRRITABLE BOWEL SYNDROME PROTOCOL NO. 08IBS04
Sponsor: Prometheus Laboratories, Inc.
Project Dates and Amount of Award: 04/27/09-12/31/10; \$86,305

PI: Seibold, James
Co-I: Martinez, Fernando (Int Med-Pulm./Critical Care) / Phillips, Kristine (Int Med-Rheumatology)
Title: MYCOPHENOLATE VS. ORAL CYCLOPHOSPHAMIDE IN SCLERODERMA INTERSTITIAL LUNG DISEASE
Sponsor: NIH - Subcontracts TO Univ Of California Los Angeles HL 089901
Project Dates and Amount of Award: 10/01/08-07/31/09; \$87,937

PI: Simon, Richard
Title: CYSTIC FIBROSIS FOUNDATION DATA SAFETY MONITORING BOARD
Sponsor: Cystic Fibrosis Foundation
Project Dates and Amount of Award: 07/01/09-06/30/10; \$25,914

PI: Singal, Amit
Title: ADVANCED / TRANSPLANT HEPATOLOGY FELLOWSHIP PROGRAM-AMIT SINGAL.
Sponsor: American Association for the Study of Liver Diseases
Project Dates and Amount of Award: 07/01/09-06/30/10; \$60,000

PI: Tai, Andrew
Title: FUNCTIONAL CHARACTERIZATION OF A NOVEL ROLE FOR A PHOSPHATIDYLINOSITOL 4-KINASE IN HEPATITIS C VIRUS REPLICATION
Sponsor: FDHN
Project Dates and Amount of Award: 07/01/09-06/30/11; \$150,000

PI: Vaidyanathan, Ravi
Title: REGULATION OF KIR2 CHANNELS IN A MACROMOLECULAR COMPLEX
Sponsor: American Heart Association, Midwest Affiliate
Project Dates and Amount of Award: 01/01/09-12/31/11; \$52,000

PI: Van Poznak, Catherine
Title: GENETIC RISK OF OSTEONECROSIS OF THE JAW (ONJ) IN PATIENTS WITH METASTATIC CANCER
Sponsor: NIH 1 K23 DE 020197 01
Project Dates and Amount of Award: 05/10/09-04/30/14; \$669,600

Medical Education

PI: Hauge, Linnea
Co-I: Arble, Eamonn (Surgery Department) / Brunsvold, Melissa (General Surgery Section) / Gruppen, Larry (Med Ed/Ofc of Ed Resources&Res)
Title: ASSESSING MEDICAL STUDENT PERFORMANCE ON PHONE CONSULTATIONS WITH NURSES: A VALIDITY AND FEASIBILITY STUDY
Sponsor: Stemmler Fund-National Board of Medical Examiners (NBME)
Project Dates and Amount of Award: 07/01/09-06/30/11; \$149,963

Microbiology and Immunology

PI: Telesnitsky, Alice
Title: A LEXICON OF HIV-RNA INTERACTIONS
Sponsor: Gates, Bill and Melinda, Foundation
Project Dates and Amount of Award: 05/01/09-04/30/10; \$100,000

Molecular & Behavioral Neuroscience Institute

PI: Goldman, Daniel
Title: ACTIVITY-DEPENDENT REGULATION OF NEUROMUSCULAR JUNCTION FORMATION
Sponsor: NIH 1 R01 NS 059848 01 A2
Project Dates and Amount of Award: 05/15/09-04/30/13; \$1,322,021

PI: Luma, Jill
Title: GENDER DIFFERENCES IN DRUG ABUSE
Sponsor: NIH 2 R01 DA 012677 09 A2
Project Dates and Amount of Award: 06/01/09-03/31/14; \$1,457,341

Molecular & Integrative Physiology

PI: Borjigin, Jimo
Title: MATHEMATICAL MODELING OF CIRCADIAN LIGHT RESPONSE
Sponsor: Defense, Department of-Air Force, Department of the
Project Dates and Amount of Award: 05/01/09-04/30/10; \$223,572

PI: MacDougald, Ormond
Title: ROLES FOR WNT SIGNALING IN ADIPOSE TISSUE
Sponsor: NIH 2 R01 DK 062876 06 A2
Project Dates and Amount of Award: 07/01/09-06/30/14; \$1,867,323

PI: Rui, Liangyou
Title: ROLE OF SH2-B IN GLUCOSE METABOLISM
Sponsor: NIH 2 R01 DK 065122 06
Project Dates and Amount of Award: 05/01/09-04/30/13; \$1,540,270

PI: Sans Gili, Maria Dolors
Title: ROLE OF PANCREATIC DIGESTIVE ENZYME SYNTHESIS DURING THE DEVELOPMENT OF ACUTE PANCREATITIS
Sponsor: National Pancreas Foundation
Project Dates and Amount of Award: 06/01/09-05/31/10; \$50,000

Neurology

PI: Hao, Shuanglin
Co-I: Fink, David (Neurology Department)
Title: GENE THERAPY OF HIV-NEUROPATHIC PAIN WITH MORPHINE TOLERANCE
Sponsor: NIH 1 R03 DA 026734 01
Project Dates and Amount of Award: 05/15/09-04/30/11; \$309,000

PI: Segal, Benjamin
Title: MS CURRENT RESEARCH REVIEW - JOURNAL CLUB
Sponsor: Teva Neuroscience
Project Dates and Amount of Award: 05/01/09-12/31/09; \$14,400

PI: Segal, Benjamin
Title: NEUROIMMUNOLOGY LECTURE SERIES
Sponsor: Teva Neuroscience
Project Dates and Amount of Award: 08/01/09-12/31/09; \$20,600

Neurosurgery

PI: Fan, Xing
Title: TREATMENT OF GLIOBLASTOMA INTRACRANIAL XENOGRAFTS BY NOTCH INHIBITION
Sponsor: Voices Against Brain Cancer
Project Dates and Amount of Award: 05/01/09-04/30/10; \$35,000

Obstetrics & Gynecology

PI: Mccarthy, Jenifer
Title: IDENTIFICATION AND ISOLATION OF UTERINE SMOOTH MUSCLE STEM CELLS AS A MEANS OF CHARACTERIZING MYOGENIC PATHWAYS IN MYOMETRIUM AND LEIOMYOMA
Sponsor: Fibroid Foundation
Project Dates and Amount of Award: 03/01/09-02/28/10; \$15,000

Ophthalmology & Visual Sciences

PI: Johnson, Mark
Title: MICROPLASMIN INTRAVITREAL INJECTION FOR NON-SURGICAL TREATMENT OF FOCAL VITREOMACULAR ADHESION
Sponsor: ThromboGenics, Inc. TO Chiltern International, Inc
Project Dates and Amount of Award: 03/09/09-03/31/10; \$141,855

PI: Moroi, Sayoko
Title: MERCK IISP# 31911 ADDENDUM: EFFECT OF MYOCILIN GENETIC VARIANTS ON INTRAOCULAR PRESSURE AND PRESSURE VARIATION IN SITTING AND SUPINE POSITIONS
Sponsor: Merck and Company, Inc.
Project Dates and Amount of Award: 05/01/09-04/30/11; \$52,342

PI: Stein, Joshua
Title: RACIAL DISPARITIES IN THE CARE OF ELDERLY AMERICANS WITH GLAUCOMA
Sponsor: American Glaucoma Society
Project Dates and Amount of Award: 05/01/09-04/30/10; \$40,000

Otolaryngology

PI: Sha, Suhua
Title: ANALYZE THE POTENTIAL PROTECTIVE EFFECTS OF EDISON'S COMPOUNDS ON THE OTOTOXICITY OF AMINOGLYCOSIDES
Sponsor: Edison Pharmaceuticals, Inc.
Project Dates and Amount of Award: 06/01/09-03/31/10; \$8,235

Pathology

PI: Davenport, Robertson
Title: ENGRAFTMENT KINETICS OF PERIPHERAL BLOOD STEM CELLS (PBSCS) ISOLATED USING THE SPECTRA OPTIA APHERESIS SYSTEM
Sponsor: CaridianBCT, Inc.
Project Dates and Amount of Award: 03/01/09-03/31/10; \$67,216

PI: Lombard, David
Title: MITOCHONDRIAL ACETYLATION IN CALORIE RESTRICTION AND AGING
Sponsor: Ellison Medical Foundation
Project Dates and Amount of Award: 08/01/09-07/31/13; \$400,000

PI: Lucas, Peter
Co-I: Mcallister-Lucas, Linda (Pediatrics-Hematology/Oncology)
Title: A NOVEL SIGNALING PATHWAY MEDIATING HYPERTENSION- AND OBESITY-DEPENDENT INSULIN RESISTANCE
Sponsor: NIH 1 R01 DK 079973 01 A1
Project Dates and Amount of Award: 06/01/09-05/31/14; \$1,658,366

PI: Palanisamy, Nallasivam
Co-I: Chinnaiyan, Arul (Ctr fr Translational Pathology)
Title: TRANSCRIPTOME SEQUENCING TO DETECT GENE FUSIONS IN MELANOMA
Sponsor: Melanoma Research Alliance (MRA)
Project Dates and Amount of Award: 06/01/09-05/31/10; \$50,000

PI: Rajendiran, Thekkelnaycke
Title: INTEGRATIVE METABOLOMICS OF PROSTATE CANCER PROGRESSION
Sponsor: NIH - Subcontracts TO Medical College of Georgia R01 CA 133458
Project Dates and Amount of Award: 02/26/09-01/31/10; \$77,250

PI: Wang, Xiaoju
Title: AUTOMATED MULTI-ARRAY ASSAY PLATFORM FOR CANCER BIOMARKERS
Sponsor: NIH - Subcontracts TO Meso Scale Diagnostics
Project Dates and Amount of Award: 03/01/09-08/31/11; \$17,656

Pediatrics & Communicable Diseases

PI: Dawid, Suzanne
Title: BACTERIAL AND HOST FACTORS IN PNEUMOCOCCAL COMPETITION
Sponsor: NIH - Subcontracts TO University of Pennsylvania
Project Dates and Amount of Award: 12/25/08-11/30/09; \$178,751

PI: Donn, Steven
Co-I: Mehta, Varsha (UMH Inpatient Pharmacy Svcs) / Subutra, Sarkar (Pediatrics-Neonatal/Perinatal)
Title: MICA FUNGIN VS AMPHOTERICIN B DEOXYCHOLATE FOR THE TREATMENT OF NEONATAL CANDIDIASIS (A PHASE 3, RANDOMIZED, DOUBLE-BLIND, MULTI-CENTER STUDY TO COMPARE THE EFFICACY AND SAFETY OF)
Sponsor: Astellas Pharma US, Inc.
Project Dates and Amount of Award: 02/01/09-08/31/11; \$172,550

PI: Filbrun, Amy
Title: SCCOR IN HOST FACTORS IN CHRONIC LUNG DISEASE. PROJECT VI: MUCUS DEHYDRATION AND EVOLUTION IN LUNG DISEASE
Sponsor: NIH - Subcontracts TO University of North Carolina P50 HL 084934
Project Dates and Amount of Award: 03/20/09-07/31/09; \$26,080

PI: Freed, Gary
Co-I: Tarini, Beth (Pediatrics-Ambulatory Care Pgm)
Title: IMPROVING HEALTHCARE DELIVERY FOR INFANTS WITH POSITIVE NEWBORN SCREENING RESULTS
Sponsor: NIH 1 K23 HD 057994 01 A1
Project Dates and Amount of Award: 06/05/09-05/31/14; \$661,500

PI: Shanley, Thomas
Co-I: Custer, Joseph (Pediatrics-Intensive Care)
Title: DETERMINE THE PHARMACODYNAMICS OF SODIUM NITROPRUSSIDE DURING PROLONGED INFUSION IN PEDIATRIC SUBJECTS (A PHASE II, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO CONTROLLED, PARALLEL GROUP STUDY TO)
Sponsor: NIH - Subcontracts TO Duke University N01 HD 043385
Project Dates and Amount of Award: 04/01/09-03/31/10; \$57,226

PI: Woolford, Susan
Title: NOVEL INDIVIDUALLY TAILORED MOBILE MESSAGES TO ENHANCE WEIGHT LOSS FOR TEENS
Sponsor: NIH 1 K23 HD 058797 01 A1
Project Dates and Amount of Award: 05/01/09-04/30/14; \$661,053

Physical Medicine & Rehabilitation

PI: Kalpakjian, Claire

Co-I: Murphy, Susan (Physical Medicine & Rehab Dept)

Title: THE UNIVERSITY OF MICHIGAN HEALTH PROFESSIONALS RESEARCH TRAINING PROGRAM: FOSTERING EVIDENCE BASED PRACTICE AMONG REHABILITATION CLINICIANS

Sponsor: Paralyzed Veterans of America (PVA)

Project Dates and Amount of Award: 06/01/09-05/31/11; \$51,192

Radiation Oncology

PI: Antonuk, Larry

Title: AN ADVANCED TECHNOLOGY FLAT-PANEL IMAGER FOR FLUOROSCOPY

Sponsor: NIH 2 R01 EB 0000558 13

Project Dates and Amount of Award: 05/01/09-03/31/13; \$5,644,340

PI: Cao, Yue

Co-I: Buchtel, Henry (Psychiatry Department) / Lawrence, Theodore (Radiation Oncology - Ann Arbor) / Maly Sundgren, Pia (Radiology Department) / Nagesh, Vijaya (Radiation Oncology - Ann Arbor) / Normolle, Daniel (Radiation Oncology - Ann Arbor) / Tsiens, Christina (Radiation Oncology - Ann Arbor)

Title: FUNCTIONAL IMAGING AS A BIOMARKER FOR NEUROTOXICITY AFTER BRAIN IRRADIATION

Sponsor: NIH 1 R01 NS 064973 01 A1

Project Dates and Amount of Award: 05/15/09-04/30/14; \$1,722,867

PI: Ljungman, Mats

Title: 11TH ANNUAL MIDWEST DNA REPAIR SYMPOSIUM

Sponsor: NIH 1 R13 ES 017371 01

Project Dates and Amount of Award: 05/01/09-04/30/10; \$12,000

PI: Nyati, Mukesh

Co-I: Bradford, Carol (Otorhinolaryngology Department) / D'Silva, Nisha (Oral Med/Path/Oncology) / Eisbruch, Avraham (Radiation Oncology - Ann Arbor) / Jolly, Shruti (Radiation Oncology - Ann Arbor) / Lawrence, Theodore (Radiation Oncology - Ann Arbor) / Normolle, Daniel (Radiation Oncology - Ann Arbor) / Sreekumar, Arun (Pathology Department) / Worden, Francis (Int Med-Hematology/Oncology)

Title: INTEGRATION OF EGFR INHIBITORS WITH RADIOCHEMOTHERAPY IN HEAD AND NECK CANCER

Sponsor: NIH 1 R01 CA 131290 01 A2

Project Dates and Amount of Award: 05/08/09-02/28/14; \$1,616,150

PI: Zhang, Ming

Co-I: Kong, Fengming (Radiation Oncology - Ann Arbor) / Lawrence, Theodore (Radiation Oncology - Ann Arbor) / Normolle, Daniel (Radiation Oncology - Ann Arbor)

Title: LUNG RADIOPROTECTION BY INHIBITION OF TNF-ALPHA AND TGF-BETA1

Sponsor: NIH 1 R01 CA 127477 01 A2

Project Dates and Amount of Award: 05/12/09-02/28/13; \$1,273,045

Radiology

PI: Brandon, Catherine

Title: TEACHING SYSTEMS BASED ANALYSIS: OPERATIONAL ENGINEERING AND MANAGEMENT CONCEPTS FOR RADIOLOGY RESIDENTS

Sponsor: Radiological Society of North America

Project Dates and Amount of Award: 07/01/09-06/30/10; \$30,000

PI: Kilbourn, Michael

Title: UM/GE TECH TRANSFER AGREEMENT

Sponsor: GE Healthcare

Project Dates and Amount of Award: 05/20/09-05/19/12; \$90,000

PI: Luker, Gary

Co-I: Luker, Kathryn (Radiology Department) / Takayama, Shuichi (Biomedical Engineering)

Title: MICROFLUIDIC MODELS OF METASTATIC CANCER

Sponsor: NIH 1 R01 CA 136829 01 A1

Project Dates and Amount of Award: 04/15/09-01/31/14; \$1,562,528

Surgery

PI: Chung, Kevin

Co-I: Kim, Hyungjin (Ctr Statistical Consul & Res)

Title: A CLINICAL TRIAL FOR THE SURGICAL TREATMENT OF ELDERLY DISTAL RADIUS FRACTURE

Sponsor: NIH 1 R34 AR 055992 01 A1

Project Dates and Amount of Award: 06/01/09-05/31/10; \$154,500

PI: Henke, Peter

Co-I: Hogaboam, Cory (Pathology Department) / Kunkel, Steven (Pathology Department)

Title: VEIN WALL FIBROTIC INJURY AFTER DVT IS SLC-CCR7 DEPENDENT

Sponsor: NIH 1 R01 HL 092129 01 A1

Project Dates and Amount of Award: 04/01/09-02/28/13; \$1,545,000

PI: Mulholland, Michael

Co-I: Li, Ji-Yao (General Surgery Section) / Zhang, Weizhen (General Surgery Section)

Title: OBESITY IS A SURGICAL PROBLEM

Sponsor: NIH 2 R01 DK 054032 11 A1

Project Dates and Amount of Award: 05/05/09-04/30/14; \$1,770,431

PI: Pasca Di Magliano, Marina

Title: NOTCH SIGNALING IN PANCREATIC CANCER INITIATION AND PROGRESSION

Sponsor: Amer Assoc for Cancer Research

Project Dates and Amount of Award: 07/01/09-06/30/11; \$100,000

PI: Simeone, Diane

Title: INDUCED GLYCAN ALTERATION IN SUB-POPULATIONS OF PANCREATIC TUMORS

Sponsor: NIH - Subcontracts TO Van Andel Research Institute

Project Dates and Amount of Award: 04/01/09-03/31/10; \$10,000

PI: Wang, Stewart

Title: RESEARCH ON HUMAN BODY GEOMETRY AND OCCUPANT INJURY DISTRIBUTION

Sponsor: Toyota Motor Corporation

Project Dates and Amount of Award: 06/01/09-03/31/10; \$196,000

Urology

PI: Miller, David

Co-I: Wei, John (Urology Surgery)

Title: PROVIDER FACTORS AND USE OF LAPAROSCOPY AND PARTIAL NEPHRECTOMY AMONG PATIENTS WITH KIDNEY CANCER

Sponsor: New York Academy of Medicine

Project Dates and Amount of Award: 07/01/09-06/30/11; \$80,000

PI: Weizer, Alon

Co-I: Hussain, Maha (Int Med-Hematology/Oncology)

Title: INTRAVESICAL BACILLUS CALMETTE-GUÉRIN FOLLOWED BY ORAL SUNITINIB FOR THE TREATMENT OF HIGH RISK NON-INVASIVE CELL CARCINOMA OF THE URINARY BLADDER, PHASE II STUDY OF

Sponsor: Pfizer Incorporated

Project Dates and Amount of Award: 04/30/09-09/23/12; \$235,887

UMMS RESEARCH PUBLICATIONS

Biological Chemistry

Agranoff BW. Turtles all the way: reflections on myo-inositol. *J Biol Chem*. 2009 May 15 (Epub ahead of print).

Aminoff D, Bochar DA, Fuller AA, Mapp AK, Showalter HD, Kirchoff PD. Research into selective biomarkers of erythrocyte exposure to organophosphorus compounds. *Anal Biochem*. 2009 Jun 1 (Epub ahead of print).

Bell AW, Deutsch EW, Au CE, Kearney RE, Beavis R, Sechi S, Nilsson T, Bergeron JJ, HUPO Test Sample Working Group, Beardslee TA, Chappell T, Meredith G, Sheffield P, Gray P, Hajivandi M, Pope M, Predki P, Kullolli M, Hincapie M, Hancock WS, Jia W, Song L, Li L, Wei J, Yang B, Wang J, Ying W, Zhang Y, Cai Y, Qian X, He F, Meyer HE, Stephan C, Eisenacher M, Marcus K, Langenfeld E, May C, Carr SA, Ahmad R, Zhu W, Smith JW, Hanash SM, Struthers JJ, Wang H, Zhang Q, An Y, Goldman R, Carlsohn E, van der Post S, Hung KE, Sarracino DA, Parker K, Krastins B, Kucherlapati R, Bourassa S, Poirier GG, Kapp E, Patsiouras H, Moritz R, Simpson R, Houle B, Laboissiere S, Metalnikov P, Nguyen V, Pawson T, Wong CC, Cociorva D, Yates Iii JR, Ellison MJ, Lopez-Campistrous A, Semchuk P, Wang Y, Ping P, Elia G, Dunn MJ, Wynne K, Walker AK, Strahler JR, Andrews PC, Hood BL, Bigbee WL, Conrads TP, Smith D, Borchers CH, Lajoie GA, Bendall SC, Speicher KD, Speicher DW, Fujimoto M, Nakamura K, Paik YK, Cho SY, Kwon MS, Lee HJ, Jeong SK, Chung AS, Miller CA, Grimm R, Williams K, Dorschel C, Falkner JA, Martens L, Vizcaino JA. A HUPO test sample study reveals common problems in mass spectrometry-based proteomics. *Nat Methods*. 2009 May 17 (Epub ahead of print).

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Evans RT, Seasholtz AF. Soluble Corticotropin-Releasing Hormone Receptor 2[alpha] Splice Variant is Efficiently Translated, but not Trafficked for Secretion. *Endocrinology*. 2009 Jun 11 (Epub ahead of print).

Gu L, Wang B, Kulkarni A, Geders TW, Grindberg RV, Gerwick L, Håkansson K, Wipf P, Smith JL, Gerwick WH, Sherman DH. Metamorphic enzyme assembly in polyketide diversification. *Nature*. 2009 Jun 4; 459(7247): 731-5.

Johnson KM, Swenson L, Opari AW Jr, Reuter R, Zarrabi N, Fierke CA, Börsch M, Glick GD. Mechanistic basis for differential inhibition of the F(1)F(o)-ATPase by aurovertin. *Biopolymers*. 2009 May 21 (Epub ahead of print).

Tarasev M, Pallela S, Ballou DP. Distal end of 105-125 loop - A putative reductase binding domain of phthalate dioxygenase. *Arch Biochem Biophys*. 2009 May 22 (Epub ahead of print).

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Xiao J, Chen XW, Davies BA, Saltiel AR, Katzmann DJ, Xu Z. Structural Basis of Ist1 Function and Ist1-Did2 Interaction in the MVB Pathway and Cytokinesis. *Mol Biol Cell*. 2009 May 28 (Epub ahead of print).

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Cell & Developmental Biology

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Human Genetics

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Microbiology and Immunology

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Obstetrics & Gynecology

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