

WSU's

Internal Research Support Booklet 2009-2010

Programs, information, and services for faculty & students

Office of the Vice President for Research

5057 Woodward, Suite 6409

577-5600 phone

577-3626 fax

<http://www.research.wayne.edu/>

Office of the Provost & Senior Vice President for Academic Affairs

4092 Faculty/Administration Building

577-2200 phone

577-5666 fax

<http://www.wayne.edu/provost/>

Graduate School

4300 Faculty/Administration Building

577-2170 phone

577-2903 fax

<http://www.gradschool.wayne.edu/>

Center for Health Research

317 Cohn Bldg

577-4135 phone

577-5777 fax

<http://www.nursing.wayne.edu/CHR/>

Honors Program

2100 Undergraduate Library

577-3030 phone

577-6425 fax

<http://www.honors.wayne.edu/>

Humanities Center

2226 Faculty/Administration Building

577-5471 phone

577-2843 fax

<http://www.research.wayne.edu/hum>

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Navigating WSU Research Web Sites

Division of Research

Main portal to all Division of Research web sites that provides links to these key web sites, research events, and research news and announcements.

<http://www.research.wayne.edu/>

Centers & Institutes @ WSU

WSU's centers and institutes embrace the multidisciplinary nature of scholarship and research within the university, and expand university boundaries by fostering collaborations with government, industry and organizations to enhance economic growth and the quality of life locally, nationally and globally. Our centers and institutes vary greatly in size, focus and mission. Some promote a primarily research-focused agenda, while others focus on instruction and/or community service.

<http://www.research.wayne.edu/ci>

Community of Science Services (COS)/Scholar Universe

Provides a full range of Internet-based services for the world's researchers to find funding, promote their work, identify experts, manage resources, and collaborate with colleagues

<http://www.research.wayne.edu/funding/searching.php>

Division of Corporate & Foundation Relations

The CFR office is responsible for the coordination of private funding requests on behalf of Wayne State University. The CFR team works with faculty and staff to coordinate and submit requests for private funding. The office can help find prospective funders, write/edit letters and proposals, develop budgets, set up accounts and fulfill reporting requirements. <http://giving.wayne.edu/relations>

Division of Laboratory Animal Resources

Promotes quality biomedical research through humane and responsible veterinary, technical and husbandry support of all animals used in research and teaching at WSU, and through education, training, and professional consultation to surpass goals and standards mandated by state and federal law, accrediting bodies, and the Institutional Animal Care and Use Committee

<http://www.dlar.wayne.edu/>

Environmental Health Safety and Health Physics

Ensures a safe and healthy environment at WSU through biosafety, the control of hazardous materials, and compliance with public health codes and regulations, and provides informational, consultative, and educational services

www.oehs.wayne.edu

Human Investigation Committee (HIC)

WSU operates its human participant research programs under a Federal Wide Assurance with the Department of Health and Human Services. In accordance with this FWA, HIC is the primary Institutional Review Board for WSU and its affiliated health care institutions

<http://www.hic.wayne.edu/>

Institutional Care and Use Committee (IACUC)

Ensures that all research and teaching protocols using live vertebrate animals are designed and carried out in a humane manner that complies with all applicable laws, policies, and guidelines

<http://www.iacuc.wayne.edu/>

Interdisciplinary Research and Education

Facilitates the search for funding, making connections with faculty who have shared interests, and forming and enhancing collaborations

<http://research.wayne.edu/idre/>

Libraries System - Faculty/Graduate Research Support

Provides resources of interest to WSU researchers including online tools, training opportunities, and library services to support research activities

<http://www.lib.wayne.edu/services/research/>

Nano@Wayne

Provides information on nanoscience and nanotechnology initiatives at WSU, including online viewing of the nanoscience seminar series which is comprised of outstanding speakers from around the country as well as from our own faculty

<http://research.wayne.edu/nano/>

Office of Postdoctoral Affairs (OPA), SOM

The Office of Postdoctoral Affairs (OPA) provides the necessary resources to postdoctoral trainees for a unified plan of training in professional and personal career development. This newly created office provides assistance with establishing uniform sets of postdoctoral policies and governance, building career developing curricula, and interacting and working with other institutional resources and offices.

<http://postdoctoralaffairs.med.wayne.edu/>

Office of the Vice President for Research (OVPR)

Includes contact information for OVPR administrators, a divisional organization chart, the research strategic plan, research fast facts and other important links

<http://www.research.wayne.edu/about/index.php>

Policy and Procedures Regarding Scientific Misconduct

A uniform policy, required for universities that receive Public Health Service (PHS) funds, that outlines procedure for investigating and reporting instances of alleged or apparent misconduct involving research at WSU

<http://research.wayne.edu/misconduct/>

Research@Wayne

A monthly informational online newsletter from the Division of Research

<http://www.research.wayne.edu/rwnews/>

Research Communications

Research Communications offers links to WSU research press releases, Research@Wayne newsletter, New Science Magazine, Let us Make You Famous forms, WSU Research in the news, and the University Research Corridor

<http://www.research.wayne.edu/communications/index.php>

Research Compliance

Oversees compliance with federal regulations for research involving humans, animals, rDNA, radiation safety, and chemical safety, and coordinates conflict of interest, export controls and handles inquiries and investigations regarding allegations of scientific misconduct

<http://www.research.wayne.edu/compliance/>

Research Funding Opportunities

Find internal funding opportunities, limited submission funding opportunities, and search for external funding opportunities.

<http://www.research.wayne.edu/funding/index.php>

Research Seminars and Training

WSU offers professional and faculty development opportunities related to advancing the research programs of our faculty, postdoctoral trainees, and senior grant officers

<http://www.research.wayne.edu/seminars-training/index.php>

Research Support Consulting Services

Provides a broad range of consultative services on the use of computer technology at any phase of the research process

<http://computing.wayne.edu/services/aboutresearchconsulting.php>

Sponsored Program Administration

Provides WSU faculty, staff, and students with the resources to facilitate their efforts in the identification of submission of proposals, and administration of sponsored programs, private grants, and gifts

<http://spa.wayne.edu/>

Technology Commercialization

Responsible for the identification, protection, marketing and licensing of intellectual property (e.g., patents, unique biological or other materials, and copyrights) developed by WSU faculty, and negotiates material transfer, non-disclosure and sponsored research agreements when they relate directly to WSU inventions

<http://www.techtransfer.wayne.edu/>

TechTown

A 12 city block business community of entrepreneurs, investors, mentors, service providers and corporate partners creating an internationally recognized entrepreneurial village in the heart of the Woodward Technology Corridor

<http://www.techtownwsu.org/>

University Research Corridor

The URC is an alliance of Michigan's three leading research institutions: Michigan State University, the University of Michigan and Wayne State University. The URC is playing a key role in creating a vibrant Michigan economy through leveraging their intellectual capital and working proactively to attract knowledge economy business

<http://www.urcmich.org/>

Award and Program Deadlines for 2009-2010

Sept 18	Humanities Center Travel Support for Graduate Students (fall)
Sept 18	Working Groups in the Humanities and Arts Program
Oct 12	Research Mentors Program for New Faculty (fall)
Nov 2	Faculty Competition for Postdoctoral Fellows (fall)
Nov 13	Board of Governors Faculty Recognition Award
Nov 13	Humanities Center Open Competition Grant
Nov 13	Humanities Center Edward M. Wise Dissertation Fellowship
Nov 13	Humanities Center Visiting Scholars Program
Nov 16	Bridge Funding Program
Nov 25	Undergraduate Research and Creative Opportunities Award (winter)
Dec 1	University Research Grant Program
Dec 4	Career Development Chairs
Dec 4	Distinguished Faculty Fellowships
Dec 11	President's Award for Excellence in Teaching
Dec 14	Sabbatical Leave Application
Dec 18	Humanities Center Travel Support for Graduate Students (winter)
Jan 4	Research Stimulation Program for Tenured Faculty
Jan 15	McNair-LSAMP Graduate Scholarships
Jan 19	Graduate Research Assistantships (GRA) Award
Jan 29	Educational Development Grant Award
Feb 8	The Dean's Diversity Fellowship
Feb 22	Research Mentors Program for New Faculty (winter)
Mar 1	Graduate-Professional Scholarships
Mar 15	Bridge Funding Program
March 24	Undergraduate Research and Creative Opportunities Award (summer)
Apr 1	King-Chavez-Parks Future Faculty Fellowships Program
Apr 1	The Munich Exchange Fellowship
Apr 6	Humanities Center Faculty Fellowships
Apr 16	Humanities Center Travel Support for Graduate Students (spr/sum)
May 3	Faculty Competition for Postdoctoral Fellows (winter)
Jul 20	Bridge Funding Program
Check Dean's Office	Thomas C. Rumble University Graduate Fellowships
Accepted Any Time	Detroit Medical Center (DMC) Faculty Scholar Awards

What You Should Know Before You Begin

The generation of new knowledge has always carried with it the understanding that research participants are to be protected, as are our colleagues, non-research personnel and the environment. Increasingly, such protection has become codified and formal review mechanisms have been developed in order to offer the assurance of compliance to employees as well as funding agencies or foundations. The following sections outline the programs or policies which Wayne State University has available regarding humans as research participants, animals as research subjects, programs to protect the environment, including the safe disposal of hazardous materials, and training opportunities which provide greater detail about research and its integrity.

Human Participants in Research

The Human Investigation Committee (HIC) is the institutional review board (IRB) for Wayne State University and its affiliated institutions (Barbara Ann Karmanos Cancer Institute, Children's Hospital of Michigan, Detroit Receiving Hospital/University Health Center, Sinai-Grace Hospital, Harper Hospital, Huron Valley/ Sinai Hospital, Hutzel Hospital, Rehabilitation Institute of Michigan, Michigan Orthopaedic Specialty Hospital, Kresge Eye Institute and the John D. Dingell Veterans Affairs Center). *All research involving human participants that is performed by students, faculty or other employees of WSU or its affiliated institutions must be reviewed and approved by the HIC before research commences.*

The Vice President for Research has delegated oversight of the HIC to the Associate Vice President for Research. The authority of the HIC extends to biomedical research and behavioral/social science research, regardless of whether the research is funded by a federal agency, commercial companies, intramural entities, or supported by institutional resources. In addition, it includes research conducted by investigators at other institutions that would like to conduct research on Wayne State University or its affiliated medical institutions' property. The jurisdiction of the HIC also extends to 'exempted' research, which requires concurrence from the appropriate HIC chair or his/her designee.

Wayne State University and its affiliates comply with the following Department of Health and Human Services (DHHS) and the Food and Drug Administration's (FDA) definitions of human participant research:

Research

- DHHS: Research is defined as a "systematic investigation, including research development, testing, and evaluation, designed to develop or contribute to generalizable knowledge." A human participant is defined as "a living individual about whom an investigator (whether professional or student) conducting research obtains (1) data through investigation or interaction with the individual, or (2) identifiable private information."

- FDA: Under FDA regulations research means any experiment that involves a test article and one or more human subjects, and that either must meet the requirements for prior submission to the FDA under section 505(i) or 520(g) of the Food, Drugs, and Cosmetics Act, or need not meet the requirements for prior submission to the FDA under these sections of the Food, Drug, and Cosmetic ACT, but the results of which are intended to be later submitted to, or held for inspection by, the FDA as part of an application for a research or marketing permit. For research involving drugs, an experiment is any use of a drug except for the use of a marketed drug in the course of medical practice.

Human Participant

- DHHS: Under DHHS regulations “human subject” means a living individual about whom an investigator (whether professional or student) conducting research obtains (1) data through intervention or interaction with the individual, or (2) identifiable private information. Intervention includes both physical procedures by which data are gathered and manipulation of the subject or the subject’s environment that are performed for research purposes.
- FDA: Under FDA regulation “human subject” means an individual who is or becomes a participant in research, either as a recipient of the test article or as a control. A subject may be either a healthy individual or a patient. For research involving medical devices a human subject is also an individual on whose specimen an investigation device is used.

Human Investigation Committee

The HIC is divided into five Institutional Review Boards (IRBs): Medical 1, Medical/Pediatric 2, Behavioral 3, Medical/Pediatric 4 and the recently formed Clinical and Translational Science 1 committees. IRB members are appointed by the Vice President for Research based upon their expertise and experience. Individuals from the local community who are not affiliated with WSU are appointed to each IRB to represent the interest of the general public. WSU’s Human Research Protection Program is accredited by the Association for the Accreditation of Human Research Protection Programs (AAHRPP).

Investigators submit a protocol to the HIC for review by one of the medical/behavioral IRBs. Depending upon the activity, the IRB may be able to (1) Exempt the human participant protocol from IRB review and approval, (2) Expedite the IRB review and approval, or (3) Consider the human participant protocol for full board review and approval. An investigator cannot exempt his/her protocol from IRB review and approval. Only a designated member of HIC can concur that a human participant protocol is exempt from IRB review and approval. For expedited or full committee review, the IRB may approve, approve with conditions, or disapprove protocols. Descriptions of projects that may qualify for an exempt or expedited review can be found on the HIC home page: <http://www.hic.wayne.edu/>.

Research cannot begin until after the investigator has received written approval from the HIC that the protocol has received final approval from the relevant IRB. The HIC will notify the investigator and the Sponsored Program Administration (SPA) Office of the IRB decision. SPA is responsible for then notifying relevant granting agencies that the protocol has received approval.

In the final approval letter, the investigator is notified when the protocol is due for continuing review. Every protocol must be reviewed and approved by the IRB at least once yearly in order for the research to continue. If the IRB determines that a protocol is has a high level of participant risk, a more frequent review may be required. Approximately two months in advance of the protocol's expiration, the HIC Administrative Support Office will remind the investigator that they must submit the requirements for a continuing review or the protocol will expire. However, it is the responsibility of the principal investigator to obtain review and approval of the continuing application before the protocol expires or to stop the research until continuing review has been obtained. *If the approval of the protocol has not been extended by the expiration date, the principal investigator must stop the research because he/she does not have current IRB approval and any data that is collected after approval has expired can never be used for the research.*

The HIC is responsible for overseeing projects that may involve human participants. The committees are responsible for identifying areas of noncompliance with institutional policies, procedures and the WSU Federal Wide Assurance. They are authorized to suspend or terminate a protocol and may recommend to the institution additional sanctions against an individual who has failed to comply with federal regulations, state and local law, and institutional policies and procedures.

The HIC is located at 101 E. Alexandrine, Detroit, Michigan 48202. All documents and inquiries may be directed to that address. The office telephone number is 577-1628 and the fax number is 993-7122.

Behavioral/Social Research

The Behavioral Institutional Review Board (B3) is responsible for reviewing all behavioral and social science research in adults and minors. Check the HIC website for meeting dates. Protocols eligible for exempted or expedited review may be submitted at any time. Specific deadlines for protocols requiring full committee review are listed on the HIC website: <http://www.hic.wayne.edu/>.

Adult Biomedical Research

The responsibility for reviewing biomedical research involving adult human participants resides with the following committees: M1, MP2, and MP4. The newly formed CTS1 committee is not currently available on a regular basis. Protocols being conducted at the John D. Dingell Veterans Administration Medical Center can only be reviewed by M1 and MP4, based on

current membership representing the VAMC. Check the HIC website for meeting dates for M1, MP2 and MP4, which occur on Thursdays of every month. Protocols eligible for exempted or expedited review may be submitted at any time. Specific deadlines for protocols requiring full committee review are also listed on the HIC website: <http://www.hic.wayne.edu/>.

Pediatric Biomedical Research

Biomedical research involving minors is reviewed by MP2 or MP4. Check the HIC website for meeting dates. Protocols eligible for exempt or expedited review may be submitted at any time. Specific deadlines for protocols requiring full committee review are listed on the HIC website: <http://www.hic.wayne.edu/>.

Applications and Other Forms

The forms for all human participant research protocols (exempt, expedited, and full review) are available in the HIC office at 101 E. Alexandrine, Detroit, Michigan 48202. Electronic versions of the forms are available on the HIC website-<http://www.hic.wayne.edu/>. Please call 313-577-1628 for additional information.

Federal Wide Assurance, Policies and Procedures

An electronic version of the Federal Wide Assurance, the Belmont Reports, federal regulations, the membership of all IRBs and all WSU policies and procedures for the HIC are available on the HIC home page <http://www.hic.wayne.edu/>.

Training

To be in compliance with Public Health Service regulations and institutional policy, the principal investigator and all key personnel must provide evidence of training on research best practices and institutional policies and procedures for protecting human research subjects. The University has recently adopted an on-line training program from the Collaborative Institutional Training Initiative (CITI) that meets federal guidelines. This on-line training program can be completed at any time and is available at <http://www.hic.wayne.edu/>.

For funded research, the investigator and/or SPA must notify the granting agency that he/she and all key members of his/her staff have completed the training modules. This documentation is generally provided at the same time that SPA provides documentation that IRB review and approval has been conducted for the proposed research project.

The HIC administrative staff also provides informal instruction for investigators and their staff on completing forms and related issues pertinent to HIC business during normal university business hours. Formal instructional sessions are held as often as it is needed or requested by individuals or groups, and additional training is available upon request.

Animal Subjects in Research

Animal Investigation Committee

The Animal Investigation Committee (AIC) is the Institutional Animal Care and Use Committee (IACUC) for Wayne State University and its affiliated institutions (Barbara Ann Karmanos Cancer Institute, Children's Hospital of Michigan, Detroit Receiving Hospital/University Health Center, Sinai-Grace Hospital, Harper Hospital, Huron Valley/ Sinai Hospital, Hutzel Hospital, Rehabilitation Institute of Michigan, Michigan Orthopaedic Specialty Hospital and the John D. Dingell Veterans Administration Medical Center). In cooperation with research scientists and veterinarians, the IACUC ensures that all research and teaching protocols using live vertebrate animals are designed and carried out in a humane manner and comply with all applicable laws, policies and guidelines. WSU's program is accredited by AAALAC.

The IACUC at WSU is composed of research scientists, veterinarians, non-scientists and at least one individual from the local community who is not affiliated with WSU. All members of the Committee are appointed by the Vice President for Research.

Protocol Submission and Approval

Animals cannot be used in research or teaching until a protocol is reviewed and approved by the IACUC. The investigator cannot begin work until he/she receives a written approval letter from the IACUC's Administrative Office.

The IACUC typically meets on the fourth Wednesday of every month; protocols must be submitted electronically to the IACUC Administrative Office prior to the meeting. Some protocols require a thorough veterinary pre-review. More information on this process, along with application forms, are posted on the website (<http://www.aic.wayne.edu/>). Step-by-step instructions for submitting a new AIC protocol are also available on the website (click on "Submitting an AIC Protocol").

Training Requirements

Prior to approval, the IACUC requires that all personnel listed on a protocol complete the required training courses from Collaborative Institutional Training Initiative (CITI), available through the website (<http://www.aic.wayne.edu/>). All personnel must also complete all appropriate Office of Environmental Health and Safety (OEHS) training sessions (<http://www.oehs.wayne.edu/>), the Division of Laboratory Animal Resources (DLAR) species-specific training and, when applicable, DLAR rodent survival surgery training (<http://dlar.wayne.edu/>).

When the sponsor requires documentation of completion of a mandatory training program, SPA will provide the required letter concerning the principal investigators, co-investigators and all key personnel.

Protocol Annual Review and Renewal

Animal protocols can be approved for a period not to exceed three years, contingent on annual review. The investigator is notified three months in advance when the protocol is due for annual review. It is the responsibility of the investigator to submit the appropriate information to obtain continued approval from the Committee. After three years, a new protocol application must be submitted to the Committee for full review. To facilitate the application process for ongoing projects/renewals, the IACUC Office notifies the investigator four months prior to the expiration date. Failure to obtain approval for research or teaching activities that are intended to continue beyond the expiration date will result in termination of all research or teaching activities covered by the expired protocol.

Compliance and Regulations

The IACUC is responsible for overseeing projects that involve animals to ensure compliance with all WSU, federal and state regulations, guidelines, and policies related to animal care and use. The website contains information regarding the WSU Animal Care and Use Program's regulatory and accreditation information including the General Letter of Assurance to the PHS. Relevant links to federal regulations, documents, and guidelines are also included on the AIC Website (<http://www.aic.wayne.edu/>).

SPA is responsible for notifying a granting agency that a research project involving animals has been approved by the AIC. The Principal Investigator is responsible for submitting the animal protocol to the AIC Office in enough time for AIC to complete its review and give final approval to the research project. AIC will provide documentation to SPA who will prepare documentation to send to the granting agency. An account (tentative or permanent) will not be established by SPA until approval by the IACUC has been documented. Agencies other than the National Institutes of Health may require documentation of IACUC review and approval at other times.

Contact Information

The IACUC Office is located at 101 E. Alexandrine; the telephone number is 577-1629 and fax number is 577-1941. All protocol applications, amendment requests, and related documents should be directed to this Office.

Division of Laboratory Animal Resources (DLAR)

DLAR provides veterinary, technical and husbandry support for research and education programs utilizing animals at the university and also the John D. Dingell Veterans Affairs Medical Center. DLAR staff is available to provide services, expertise and guidance related to laboratory animal care and use. Telephone numbers to select offices, special resources or services include:

Senior Director and Attending Veterinarian.....577-1046
Director577-1418

Animal Ordering/Business Office.....	577-1107
.....	577-5890 fax
Veterinary Services	577-1343
Diagnostic Laboratory	577-1405
Project Coordination/AAALAC Accreditation Standards	577-5892
Technical Support of Projects	577-1343
.....	577-5892
Supervisors for Animal Facilities Staff	577-1452
.....	577-5824
Training (animal handling, surgery, special procedures, etc.)	577-1343
.....	577-5892
Reservations for Training Classes.....	577-5892
(See below for instructions on IACUC required rodent training)	
DLAR Library (books, videos, and other training aids).....	577-1156
.....	577-1343
Veterinary Technology Program (Academic).....	577-1156

Interdepartmental mail sent to the DLAR offices listed should go to Room 5116, 259 Mack Avenue, Eugene Applebaum College of Pharmacy and Health Sciences (EACPHS) Building. DLAR conducts Institutional Animal Care and Use Committee (IACUC) required training sessions in Room 5421 of the same building. Parking for visitors is available in parking structure # 7 at John R and Mack Avenue. The DLAR web page may be accessed using the following address: <http://www.dlar.wayne.edu/>. The AIC web page <http://www.iacuc.wayne.edu/> is also of key importance to users of animals in research and education programs.

Institutional Veterinary Care and Laboratory Animal Care and Use Program

Wayne State University (WSU) and the John D. Dingell Veterans Affairs Medical Center (DVAMC) are jointly accredited by the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC). The Division of Laboratory Animal Resources (DLAR) staffs and manages all animal facilities. Veterinarians who are either board certified by the American College of Laboratory Animal Medicine (ACLAM) or the American College of Veterinary Pathology (ACVP) are included on the staff of veterinarians serving the laboratory animal care and use program. Licensed Veterinary Technicians (LVT's) also provide animal husbandry, technical assistance, and training assistance. Many of the veterinary technicians and supervisory staff also hold certification by the American Association of Laboratory Animal Science (AALAS). The laboratory animal care and use program conforms to the National Research Council's *Guide for the Care and Use of Laboratory Animals*, revised in 1996. At Wayne State University our Institutional Animal Care and Use Committee (IACUC) is comprised of over 15 members. The IACUC is structured and operated in accord with NIH's Office of Laboratory Animal Welfare (OLAW) *Public Health Service Policy on Humane Care and Use of Laboratory Animals*. The NIH animal welfare assurance number for WSU and the DVAMC's laboratory animal care and use program is A3310-01. The United States Department of

Agriculture (USDA) registration number is 34-R-014. AAALAC accreditation unit number is 000393.

Checklist of Requirements for Research or Teaching

The following checklist is for persons involved in the conduct of animal based procedures. It provides a convenient summary of training programs and guidance on how to register or complete specific training. The extent of training required will vary according to the nature of the project(s) involved. The listing also includes guidance on how to enroll in the occupational medicine program and obtain veterinary consultations for projects. IACUC protocols with animals in USDA categories D or E are assigned to veterinarians by the IACUC office for conduct of an electronic pre-review and consultation related to planned animal procedures. After satisfactory completion of the veterinary pre-review the protocol is assigned to primary and secondary reviewers prior to the monthly IACUC meetings.

SPECIES SPECIFIC TRAINING: Requirement for PI and each person working with animals on IACUC approved protocols. To enroll for training involving mice and rats, register at the DLAR website at <http://www.dlar.wayne.edu>. For other species call Patty Denison at 577-5892 or the DLAR veterinary hospital at 577-1343.

DLAR RODENT SURGERY TRAINING: Requirement for PI and each person working with rodents (mice, rats, hamsters, gerbils, guinea pigs) in projects involving survival rodent surgery. To enroll, visit the DLAR website at <http://www.dlar.wayne.edu>.

OSHA LABORATORY STANDARD TRAINING: Requirement for PI and each person on approved IACUC protocol. Must be taken once. To register, visit the Office of Environmental Health and Safety (OEHS) website at <http://www.oehs.wayne.edu>.

OSHA LABORATORY STANDARD-HAZARDOUS WASTE and EMERGENCY PROCEDURES: Required annually for PI and all persons on protocol if hazardous waste will be generated. See Office of Environmental Health and Safety web site for information. <http://www.oehs.wayne.edu>.

OSHA BLOODBORNE PATHOGEN STANDARD/BIOSAFETY TRAINING: Required annually if AIC protocol involves the use of **any** human tissue, blood, body fluids, cell line of human origin, or animals infected with human pathogens. Required for PI and all persons involved with protocol. To register see Office of Environmental Health and Safety web site <http://www.oehs.wayne.edu>.

IRRADIATION TRAINING (Users of Radiation Generating Equipment): Required annually for all protocols that involve the use of irradiation procedures or the use of radiation generating equipment. Required for PI and all persons involved with protocol. Training is taken on line. To

obtain training see the Office of Environmental Health and Safety website
<http://www.oehs.wayne.edu>,

RADIOISOTOPE TRAINING (Material Users and Buyers): Required for PI and all persons on protocol if there is use of radioisotopes. Refresher classes are required annually and are completed on-line. For information on this training see <http://www.oehs.wayne.edu>.

OCCUPATIONAL HEALTH and SAFETY (AniCon) Program: PI and all personnel on an IACUC protocol must be enrolled. An Animal Contact Occupational Health Services Risk Assessment Questionnaire must be submitted to Office of Environmental Health and Safety. Questionnaire (Form 1080) can be downloaded from website <http://www.oehs.wayne.edu>. See forms link. Call Occupational Health Specialist at 577-5917 if you have questions.

RESPONSIBLE CONDUCT in RESEARCH ON-LINE TRAINING PROGRAM MODULES: Required training for PI, Co-PI, Faculty Advisor, and all personnel on protocol. Training modules can be accessed on website <http://www.iacuc.wayne.edu>. The university and the John D. Dingell VAMC use training modules developed by the Collaborative Institutional Training Initiative (CITI).

VETERINARY CONSULTATION: According to the federal Animal Welfare Act, a veterinarian must be consulted to assist in the planning of procedures that will involve pain or distress that is more than momentary or slight. This is required if animal procedures are in USDA CATEGORY "D" or "E". Animal research protocols must be submitted to the IACUC Office for assignment to a veterinarian for electronic pre-review of animal procedures. After a review of animal procedures is accomplished with appropriate revisions done by the PI, if needed, the protocol will be assigned to primary and secondary non-veterinary reviewers prior to full committee action or review. Call any one of the following veterinarians if advice or information is needed: Dr. Lisa Brossia, 993-6790 or 577-1343; Dr. Karen Hrapkiewicz, 577-1156; Dr. Elizabeth Dawe, 577-1236 (Surgical Research Service based projects only); or Dr. Merlin Ekstrom at 577-1046.

Suggested Websites:

Wayne State University Animal Investigation Committee: <http://www.iacuc.wayne.edu>

Wayne State University Division of Laboratory Animal Resources: <http://www.dlar.wayne.edu>

Wayne State University Office of Environmental Health and Safety:
<http://www.oehs.wayne.edu>

Office of Laboratory Animal Welfare (OLAW), National Institutes of Health:
<http://www.olaw.nih.gov>. The OLAW website has links to a broad range of issues related to laboratory animal care and use including how to properly prepare an animal research protocol that will meet requirements of federal regulations and policies.

Protection from Research Risks

Health Physics and Radiation Safety

The Wayne State University Radiation Safety Committee establishes rules and policies for the safe and lawful use of ionizing radiation. The Committee provides oversight for the use of ionizing radiation and grants use authorization to qualified research faculty members. The Committee consists of the Associate Vice President for Research, the Radiation Safety Officer, and authorized users of ionizing radiation as appointed by the Vice President for Research. All work involving the use of ionizing radiation must first be reviewed and approved by the Radiation Safety Committee.

The Office of Environmental Health and Safety's Health Physics staff, located at 5425 Woodward Avenue/Suite 300, administers the Radiation Safety Program, and provides training and support services for authorized users of ionizing radiation. The Health Physics staff may be contacted at 577-1200.

Radiation Safety Training is required for all faculty, staff and students who wish to work with sources of ionizing radiation at the University. Topics include basic radiation physics, radiation safety procedures, material and machine requisition procedures, radiation detection, contamination control, emergency procedures, record maintenance and waste disposal. Enrollment is free, and further information may be obtained by calling 577-1200 or visiting our web site at <http://www.oehs.wayne.edu/>.

Environmental Health and Safety

The Office of Environmental Health and Safety (OEHS), located at 5425 Woodward Avenue/Suite 300, serves the University in the area of biosafety, the control of hazardous materials and the enforcement of public health codes and regulations. The office also provides information, consultation and educational services in these areas. Researchers are provided with up-to-date information on health and safety issues, along with safety training information/scheduled classes, by visiting the OEHS web page. The OEHS web page may be accessed using the following address: <http://www.oehs.wayne.edu/>.

Right-to-Know

The Michigan Right-to-Know Law is designed to provide information to employees and employers exposed to hazardous chemicals in their workplace. The five major areas covered under the law are 1) evaluation of hazardous chemicals; 2) labeling of these chemicals; 3) maintaining Material Safety Data Sheets (MSDS); 4) training of employees; and 5) written Hazard Communication Plan developed by the employer.

OEHS provides training for all individuals who are exposed or potentially exposed to workplace chemicals. The Laboratory Right-to-Know Law applies to all WSU laboratory settings.

The OSHA Laboratory Standard (Right-to-Know Law) is designed to provide information and training and reduce the exposure potential of laboratory workers to laboratory chemicals. The essential component of the OSHA Laboratory Standard is the Chemical Hygiene Plan. This plan requires that all laboratories using particularly hazardous substances have written standard operating procedures (SOPs) and that all employees in the area must follow them. The purpose of a SOP is to specify precisely how any task involving particularly hazardous substances will be carried out.

For a list of particularly hazardous substances or for training, please contact the Program Coordinator at 993-5702.

Bloodborne Pathogen Program

Exposure to blood and other potentially infectious materials is a concern in the work environment because of the ability of these materials to transmit life-threatening diseases such as hepatitis B and HIV. The Bloodborne Pathogen Program is a comprehensive law that is designed to protect health care workers and others who may be exposed to blood or other body fluids during the performance of their job duties. Individuals governed by this regulation are eligible for a hepatitis B vaccination at no cost to them.

OSHA has determined that anyone with potential occupational exposure to human blood, tissue, body fluids or other potentially infectious materials is considered to be “at risk” and will be covered by this standard. This includes health care workers, researchers, custodians, public safety officers, athletic trainers, childcare workers and others at risk of potential exposure.

For training and for the University Exposure Control Plan, please contact the Program Coordinator at 993-5702.

Biosafety Committee

WSU’s Biosafety Committee recommends policies, procedures and programs for the safe access, handling and disposal of biological and infectious materials. Regulatory compliance and protection of our personnel, facilities, and other resources are integral to this committee’s work. The policies developed by this committee are submitted to appropriate administrative offices for approval and implementation. The Environmental Health and Safety Office administers and enforces the policies of the Biosafety Committee for the University. All faculty or staff members who plan on using recombinant DNA or biohazardous materials for research, teaching, or other activities must submit a user application to the Biosafety Committee. The Biosafety Committee will then consider the application at its earliest convenience. Laboratories are inspected on an annual basis by either the Biosafety Officer or the Chemical Hygiene Officer.

For NIH guidelines or rDNA Use Approval form, please contact the Biosafety Officer at 577-1200.

AniCon

The AniCon (Animal Contact Occupational Health) Program focuses on health issues that pertain to personnel who come in contact with animals used in research. The AniCon Program provides health and safety services (e.g., educational, training, surveillance, monitoring, record-keeping, etc.) to personnel with animal contact. Some of the goals of the ANICON program are: decrease risk (injuries and illnesses) associated with animal research, provide referral, counseling, educational materials and presentations on zoonotic diseases and other infectious diseases, and promote compliance with health and safety regulatory agencies.

All personnel with animal contact must complete a medical risk assessment questionnaire. Depending upon the occupational risks and baseline health status of personnel, the Occupational Health Specialist may refer personnel for medical services and/or provide health and safety consultation. For more information concerning the ANICON program, contact the Occupational Health Specialist for Research at 577-5917.

Material Safety Data Sheets (MSDS)

Material Safety Data Sheets (MSDS) are informational sheets listing the physical properties reactivity, health hazards, environmental impact, etc. of individual chemicals. For MSDS, please contact OEHS at 577-1200 or by fax at 993-4079.

Biological Safety Cabinet and Chemical Fume Hood Certification

Biological Safety Cabinets and chemical fume hoods require yearly certification. The Biological Safety Cabinets (BSC) are certified in accordance with NSF's standard 49. OEHS will repair biosafety cabinets for a nominal fee. For certification of BSCs or chemical fume hoods, please contact the Environmental Health Specialist at 993-7597.

Hazardous Waste Disposal

Laboratory personnel are responsible for the collection, segregation, labeling and temporary storage of all hazardous waste generated in their labs. It is also the laboratory's responsibility to notify OEHS at 577-1200 when waste pick up is needed. OEHS will provide containers, tags and guidance to all laboratory personnel concerning hazardous waste disposal. For more information, please contact the Hazardous Materials Manager at 577-1200 or online at <http://www.oehs.wayne.edu/oeh&s/hazwaste.htm>.

Interim Director	577-1200
Industrial Hygienist/ Biosafety Officer	577-1200
Hazardous Materials Manager/ Assistant Director	993-7655
Health Physicist	577-0019
Program Coordinator (Training)/ Env. Health Specialist	993-5702
Chemical Hygiene Officer	993-6614
Environmental Health Specialist	993-7597
Compliance Officer	993-7678
Occupational Health Specialist	577-5917

Responsible Conduct of Research

Policy and Procedures Regarding Research Misconduct

Research misconduct includes fabrication, falsification, plagiarism or other practices that seriously deviate from commonly accepted practices within the scientific community for proposing, conducting or reporting research. Misconduct does not include honest error or honest differences of interpretation in judgment of data. Information regarding the complete policy and procedures for dealing with research misconduct is available at <http://research.wayne.edu/compliance/misconduct.html>. If you have further questions, please contact the Office of the Vice President for Research at 577-5600. Educational modules on research integrity are available on-line through either the HIC or AIC websites (www.hic.wayne.edu or www.aic.wayne.edu).

Conflict of Interest

Wayne State University recognizes that conflicts of interest may exist because of relationships between personnel and members of their immediate family with external parties with which the University conducts business. Where conflict of interest exists, the University seeks to manage, minimize or eliminate it.

A conflict of interest exists when a staff or faculty member is in a position to influence the University's business, research or other decisions in ways that could lead directly or indirectly to financial gain for the employee or his/her family. This also includes situations that would give improper advantage to others.

Conflict of interest policies are addressed in two University policies, available through WSU's main website (www.wayne.edu). Employees are required to disclose potential conflicts of interest as described in these Policies.

The Research Policy on "Individual & Institutional Financial Conflict of Interest and Commitment" further defines the procedures for disclosure and management of conflicts outlined in the University Policy. The Research Policy and the *Financial Conflict of Interest Detailed Disclosure Form* may be found on www.research.wayne.edu/coi. The University's Financial Conflict of Interest (FCOI) committee consists of twelve faculty members from different disciplines from across the University. The FCOI Committee will meet at least twice a year. The FCOI Committee may be required to meet more frequently if needed. For situations involving minimal to moderate conflicts of interest, a subcommittee of the FCOI Committee meets as often as necessary to review these in a timely manner. The FCOI Committee's coordinator is located at 5057 Woodward, Suite 6305. The telephone number is 577-9064 and the fax number is 577-2159.

Export Control Regulations

Federal Export Control Regulations are statutes and laws set forth by the U.S. Departments of Commerce, State and Treasury to control and regulate the export of certain technical and scientific data. Because these regulations are broad and difficult to manage on an individual basis, WSU's Export Control Compliance Program assists PIs and other individuals involved in research or other University activities in understanding and managing compliance issues in this area. Concerns may arise in a variety of situations, such as the transfer of certain materials to another country or to foreign nationals on US soil; restrictions on foreign nationals in research laboratories; publication restrictions; and other activities. The primary goal of the Export Control Office is to ensure full compliance with statutory and regulatory requirements. Failure to comply with these regulations can result in severe criminal and civil penalties against individuals and Wayne State University.

The U.S. Department of Commerce through the Export Administration Regulations, (EAR) controls the export of research items appearing on their Commerce Control List, (CCL). These research items are developed for dual use, that is legitimate civilian use but could also provide information that could be harmful to the public, national security or nuclear proliferation should it be misused. The U.S. Department of State under the International Traffic in Arms Regulations, (ITAR) sets forth controls that apply to the export of military and space-related "defense articles" and "defense services." The U.S. Department of State also generates a U.S. Munitions List. This list assists researchers in identifying research that will require an export license or other government approval, if controlled articles or services are "exported" to a foreign country or a foreign national even if the foreign national resides in the United States. The Office of Foreign Assets Control ("OFAC") of the U.S. Department of the Treasury administers and enforces economic and trade sanctions based on US foreign policy and national security goals against targeted foreign countries, terrorists, international narcotics traffickers, and those engaged in activities related to the proliferation of weapons of mass destruction.

Wayne State University is committed to fully and completely complying with all the United States export control laws and regulations to include all those promulgated by the United States Departments of Commerce, State and Treasury. The Export Control Compliance Office coordinates an institution-wide compliance program to prevent potential violations of federal regulations as they apply to the export control requirements, and to respond appropriately when possible violations are detected. Therefore, it is imperative that all researchers at Wayne State University familiarize themselves with these Export Control Regulations and understand their responsibility to determine when these laws apply to their research and other academic activities.

For additional information regarding United States Export Controls, the Office of Research Compliance has provided information at http://research.wayne.edu/compliance/export_control/. You can also email us at exportcontrol@wayne.edu with any questions or comments, or call the Export Control Compliance Officer at 577-0461.

General Support for Faculty, Staff and Students

Community of Science Faculty Expertise and Funding Opportunities Database

Advance your research with just a few clicks. Wayne State University subscribes to the services of Community of Science (COS) database, the leading global resource for researchers to:

- Find funding
- Identify collaborators
- Promote your research

Search COS today by logging onto <http://login.cos.com> for your free username and password. For more information, contact Sarah James at sjames@wayne.edu or 577-8997 or visit COS.com.

Division of Corporate and Foundation Relations (CFR)

CFR supports fundraising for programs and unrestricted support and works with faculty, staff and Major Gift Officers to coordinate and submit requests for private funding. A team of prospect researchers, writers and CFR directors can help plan fundraising strategies, find prospective funders, write/edit letters and proposals, develop budgets, set up accounts and fulfill reporting requirements. The CFR office is responsible for the coordination of all private funding requests on behalf of Wayne State University, and collaborates closely with Sponsored Program Administration to ensure appropriate accountability. For more information, visit <http://giving.wayne.edu/index-corpfound.html>. For assistance, contact your CFR director at <http://giving.wayne.edu/index-CFRteam.html>.

Office of Postdoctoral Affairs, School of Medicine

The Office of Postdoctoral Affairs (OPA) in the School of Medicine oversees approximately 250 postdoctoral trainees. The OPA is responsible for:

- uniform definitions and policies for appointment, salary and benefits structure for all postdoctoral trainees
<http://www.postdoctoralaffairs.med.wayne.edu/appt-policies.php>
- individual development plans and annual evaluation for postdoctoral trainees
http://www.postdoctoralaffairs.med.wayne.edu/pdf/annual_review.pdf
- oversight of the Postdoctoral Association, which provides valuable social and networking resources for the trainees
<http://www.postdoctoralaffairs.med.wayne.edu/post-assoc.php>
- maintaining a dedicated website for the trainees and their mentors
<http://www.postdoctoralaffairs.med.wayne.edu/index.php>
- maintaining a dedicated listserv for the trainees and their mentors
postdocs@med.wayne.edu
- Grants Incentive Program for postdoctoral trainees to incentivize grant/fellowship submission. Trainees submitting applications receive awards at the time of submission, and additional awards if they are successful in obtaining external funding

<http://www.postdoctoralaffairs.med.wayne.edu/grants-incentive/index.php>

- Postdoctoral Research Day for trainees to present their research findings in a poster session, with awards presented to the best posters
- collaborating with the Office of the Vice President for Research in developing career development workshops/sessions for postdoctoral trainees as part the Professional and Academic Development seminar series.

<http://www.postdoctoralaffairs.med.wayne.edu>

Office of Postdoctoral Affairs Grants Incentive Program (GIP) for Postdoctoral Trainees and their Research Mentors

<http://www.postdoctoralaffairs.med.wayne.edu/grants-incentive/index.php>

The Office of Postdoctoral Affairs (OPA) is pleased to announce an incentive program for School of Medicine postdoctoral trainees submitting applications for national peer-reviewed extramural funding. Open to all SOM Postdocs in the first six years of training.

In this program, the first ten postdoctoral trainees to submit applications to national funding agencies for peer-reviewed fellowships or grants in each academic year (August through July cycle) will receive a \$1,000 travel award following approval by the GIP committee upon proof of application submission. An additional \$1,000 travel award will be made to each postdoctoral trainee and his/her research mentor upon successful receipt of such a fellowship/grant from the funding agency.

To qualify for the GIP awards, the applications must be the equivalent of the NIH K, K99/R00 or F32 series of grants/fellowships/career development. If a postdoctoral trainee wishes to apply for these awards, they should submit the following to the Director of the OPA:

(i) Position and Application Details:

Name

Training Position

Date of Appointment

Department

Mentor name

Granting/Funding Agency

Date of Submission

Proposed Project Period

Total Direct Costs Requested

(ii) A brief description from their mentor addressing how the application fits into the spirit of career development promoted by the OPA

(iii) A copy of the complete application

WSU Research Core Facilities

Behavioral and Field Research

The Behavioral and Field Research Core (BFRC) at Karmanos Cancer Institute is designed to facilitate the integration of communication and behavioral research across the Institute, including work in epidemiology, cancer prevention, clinical and developmental therapeutics, palliative care, and genetics.

Director: Lisa Berry-Bobovski, berryl@karmanos.org, 313-576-8289

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/BehavioralFieldResearch.aspx>

Bioinformatics

The Bioinformatics Core focuses on support and collaborative research in the areas of: data analysis for high throughput gene expression experiments (e.g., microarrays), development of molecular classifiers, experimental design, and database support for storage and retrieval of experimental data.

Director: Sorin Draghici, sorin@wayne.edu, 313-577-5484

<http://www.med.wayne.edu/cancer/researchresources.htm#bioinformatics>

Biostatistics

The Biostatistics Core has primary responsibility for the design and development of research databases and for ensuring that all Projects are well-planned and are using appropriate experimental designs as well as for ensuring that planned statistical analyses are suitable to the experimental design and study endpoints.

Director: Judith Abrams, Jabram@wayne.edu, 313-576-8653

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/Biostatistics.aspx>

Cellular and Animal Imaging

As an integral part of research activities at the Center, the Cellular and Animal Imaging Core houses the only confocal microscopy unit in the Wayne State University School of Medicine that operates multiple microscopes capable of viewing simultaneously multiple-labeled (up to nine markers) tissue and cells. The Cellular and Animal Imaging Core is also the only facility capable of performing *in vivo* small animal imaging.

Director: Kami Moin, kmoin@med.wayne.edu, 313-577-2199

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/CellularAnimalImaging.aspx>

Cell Culture

The Cell Culture Core provides Hepatocyte isolation, cell line maintenance, centrifugal elutriation, media preparation, mycoplasma testing, technical assistance and training.

Director: Tom Kocarek, t.kocarek@wayne.edu, 313-963-7487

<http://home.med.wayne.edu/departments/research-facilities.php#CCF>

Central Instrumentation Facility

The Central Instrumentation Facility maintains modern analytical instruments to provide routine analysis and research support. The facility consists of four major areas of emphasis - Mass Spectrometry, Nuclear Magnetic Resonance Spectroscopy, X-Ray Crystallography, and Optical Spectroscopy.

Director: David Coleman, ad5191@wayne.edu , 313-577-2586

<http://www.med.wayne.edu/cancer/researchresources.htm#central>

Clinical Genetics

The Clinical Genetics Core provides information about genetic diseases, availability of DNA testing, patient support groups, etc.

Director: Anne Greb, agreb@cmb.biosci.wayne.edu, 313-577-6298

<http://home.med.wayne.edu/departments/research-facilities.php#CCF>

Clinical Imaging Research

The Clinical Imaging Research Core capabilities include state-of-the-art equipment for anatomical imaging (e.g., CT, ultrasound, mammography), functional imaging (PET and DCE MRI), and experimental new imaging methods utilizing MR spectroscopy and acoustic tomography. Imaging efforts are aimed at a clinical and research need for quantification of these parameters to gain a fuller understanding of treatment response in order to maximize clinical value.

Director: Peter Littrup, littrup@karmanos.org, 313-576-9953

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/ClinicalImagingResearch.aspx>

Epidemiology Research

The Epidemiology Research Core (ERC), developed in December 2007, supports population-based research by providing access to metropolitan Detroit cancer cases and registry data for research. The Core also provides epidemiology consulting and collaborates with KCI members conducting investigations in cancer prevention, etiology, treatment and outcomes.

Director: John Graff, graffj@karmanos.org, 313-578-4205

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/EpidemiologyResearch.aspx>

Genomics

The Genomics Core serves KCI members with state-of-the-art genomic technologies and expert consultation services. Core scientists interact with researchers at the design phase of projects and assist in incorporating genomics approaches by generating preliminary data, writing methodologies, analyzing cost, and performing high throughput implementation of technology.

Director: Susan Land, sland@med.wayne.edu, 313-577-3555

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/Genomics.aspx>

Microarray and Bioinformatics

The Microarray and Bioinformatics Core uses computational and statistical methodologies to analyze microarray data and interpret the results in a biological context.

Director: Alan Dombkowski, dowski@wayne.edu, 313-961-4943

<http://www.ehscenter.org/facility/mbfc.html>

Molecular Signatures

The Molecular Signatures developing Core provides detailed genetic and genomic analysis of human tumor samples to support the development and subsequent implementation of personalized cancer therapy.

Director: Ramsi Haddad, haddadr@karmanos.org, 313-576-8857

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/MolecularSignature.s.aspx>

Magnetic Resonance Imaging and Spectroscopy Research Core

The MR Research Facility is committed to the development of magnetic resonance-based methods and their application in the preclinical and clinical subjects to better understand human physiology and disease. This core supports the implementation of MR methods through education, assistance in experimental design, and data collection and analysis.

Director: E. Mark Haacke, haacke@wayne.edu, 313-745-1395

<http://www.mrc.wayne.edu/>

PET Center

This Core provides PET Scanning, Cyclotron, Chemistry, Data Acquisition and Analysis.

Director: Harry Chugani, hchugani@pet.wayne.edu, 313-993-0000

<http://pet.wayne.edu/>

Pharmacology

The Pharmacology Core supports clinical trials as well as preclinical studies by providing specimen processing and tracking, drug level analyses and pharmacokinetic modeling, and assistance in study design and data interpretation.

Director: Jing Li, lijin@karmanos.org, 313-576-8258

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/Pharmacology.aspx>

Proteomics

The mission of the Proteomics Core is to enhance research productivity of KCI members by providing the equipment and expertise necessary for analysis of cellular protein composition and protein-protein interactions. The Proteomics Core provides instruments and expertise for identification of proteins and analysis of protein interactions. These two services require different instrumentation, but they both rely on expertise in protein chemistry, separation and analysis.

Director: Paul Stemmer, pmstemmer@wayne.edu, 313-961-7634

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/Proteomics.aspx>

Systems and Computational Biology

The mission of the Systems and Computational Biology Core is two-fold: to provide a technology resource and support service in systems and computational biology for KCI members, and to serve as an integrative driver for collaborative research in systems-based oncology across all five Programs. In particular, Core activities enable the application of molecular profiling and network modeling approaches to clinical studies ranging from the molecular to the population level.

Director: Craig Giroux, cgiroux@wayne.edu, 313-576-8927

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/SystemsComputationalBiology.aspx>

Translational Research

The Translational Research Core services comprise the development of biochemical, molecular, or cellular assays that are tailored and validated according to the specific and customized translational research question associated with the clinical trial and the development of standard operating procedures (SOPs), including instructions for research nurses and collection logistics.

Director: Angelika Burger, burgera@karmanos.org, 313-576-8302

<https://www2.karmanos.org/research/Home2/Researchers2/CoreFacilities/TranslationalResearch.aspx>

University Pathology Research Service

The University Pathology Research Service Core provides services for tissue based ancillary studies and technologies that encompass both the technical and the interpretational/collaborative offerings of a modern academic pathology department.

Director: Wael Sakr, wsakr@med.wayne.edu, 313-576-9232

<http://www.med.wayne.edu/uprs/missionstatement.htm>

WSU Libraries

Supporting research at WSU is one of the core missions of the **WSU Libraries System**. WSU Libraries System provides several services that support the research activities of the University community.

We have recently created a **Faculty/Graduate Research Support guide** at <http://www.lib.wayne.edu/services/research/> for easy, comprehensive access to the library resources that are relevant to faculty and students' research needs. This research guide highlights resources of interest to WSU researchers including online tools, training opportunities, and library services to support research activities. Browse this guide or contact your library liaison to learn more about resources and services that support research at WSU.

[Liaison Librarians](#) - Each academic department/college at WSU is assigned a professional librarian liaison that can be contacted to discuss library resources and services designed to meet the research needs of your department or college. Visit the link <http://www.lib.wayne.edu/geninfo/staff/facultyliasion.php> to find contact information for the librarian assigned to your department/college. (A printed list of liaisons also follows this handout).

WSU librarians can assist researchers in:

- searching funding opportunities
- setting up current awareness alerting services
- determining journal impact factors
- performing citation analysis of publications
- using citation management software

[Suggest a Title](#) - Your liaison librarian can order new resources in your field, or you can use the link <http://www.lib.wayne.edu/services/research/> to suggest a title for purchase by the libraries.

[Research Guides](#) - WSU Liaison Librarians have prepared research guides for each subject area to highlight frequently used and best resources for conducting research in a given discipline.

Computing & Information Technology (C&IT)

WSU Computing Services and Resources

For information about the central computing services and resources that Wayne State University Computing & Information Technology (C&IT) provides, please visit our Website — 24 hours/day, seven days/week at <http://computing.wayne.edu>. Comments on our Website content are welcome. Please click “Contact Us” and fill out the contact form.

Here is a list of WSU computing services and resources of interest to researchers, with a direct link to a page on C&IT's Website where you can get more information:

WSU AccessID:	http://computing.wayne.edu/accessID
WSU E-mail, WebMail:	http://computing.wayne.edu/email http://webmail.wayne.edu
LISTSERV:	http://computing.wayne.edu/listserv
Broadcast Messaging:	http://m.wayne.edu or through WSU Pipeline
Network/Internet Access:	http://computing.wayne.edu/network
wireless@wayne:	http://computing.wayne.edu/wireless
Telecommunications:	http://networks.wayne.edu/vns/
Free & low-cost software:	http://computing.wayne.edu/software
C&IT-supported software:	http://computing.wayne.edu/Help_Desk/software.php
Computer purchases:	http://computing.wayne.edu/hardware
Home computer repair:	http://computing.wayne.edu/clinic
WSU Pipeline portal:	http://computing.wayne.edu/pipeline
Self-services on the Web:	http://pipeline.wayne.edu
WSU Online Directory:	http://networks.wayne.edu/onlinedirectory
Research Consulting:	http://computing.wayne.edu/services/aboutresearchconsulting.php
Course Management:	http://computing.wayne.edu/blackboard
Online courses, ePortfolios:	http://computing.wayne.edu/blackboard/aboutblackboard.php http://blackboard.wayne.edu
University Television:	http://utv.wayne.edu -video production, multimedia, animation
WSU Grid:	https://www.grid.wayne.edu -- <i>also see below</i>
Internet2:	http://internet2.edu/ -- <i>also see below</i>
Michigan LambdaRail:	http://milr.org -- <i>also see below</i>

Computing Support Services

For personal assistance using any of the services and resources listed above, contact the C&IT Help Desk at (313) 577-4778 or helpdesk@wayne.edu. Many schools, colleges, and divisions also provide technical support services for their faculty, researchers, and staff. For a list of these computer support contacts on campus, visit <http://computing.wayne.edu/deptsupport/>.

For answers to commonly asked questions about computing and other WSU services -- on the Web, 24 hours/day, seven days/week -- visit <http://kb.wayne.edu>.

Advanced Computing and Networking Services

WSU Grid and High Performance Computing

C&IT, in partnership with a number of Wayne State schools and colleges, maintains a campus-wide Grid and High Performance Computing Facility that is connected to Wayne State's fiber backbone network, Internet2, and the Michigan LambdaRail (MiLR). The centrally managed Grid-enabled computing system houses and manages research-related projects requiring high-speed computation, parallel and distributed computing, data management, and computationally intensive applications. Grid users can utilize numerous processors in different systems simultaneously. The WSU Grid is used as a foundation for a number of grants funded by the National Science Foundation, U.S. Department of Energy, and the National Institutes of Health and is available for use in future grant proposals as a piece of major research instrumentation.

Any Wayne State faculty or staff member and student with a valid research-related computational task and a WSU AccessID may use the system. This includes graduate students who are performing research but are not taking classes. Prospective users of the WSU Grid Computing Facility can obtain more information and apply online for an account at <https://www.grid.wayne.edu/>. New accounts are typically created within two business days.

Advanced Networking on Internet2

Wayne State is a member of Internet2, the foremost U.S. advanced networking consortium. Led by the research and education community since 1996, Internet2 promotes the missions of its members by providing both leading-edge network capabilities and unique partnership opportunities that together facilitate the development, deployment, and use of revolutionary Internet technologies.

By bringing research and academia together with technology leaders from industry, government, and the international community, Internet2 promotes collaboration and innovation that has a fundamental impact on the future of the Internet.

The Abilene Network, which is accessible from WSU's network, is an Internet2 high performance backbone network that enables the development of advanced Internet applications and the deployment of leading-edge network services to Internet2 universities and

research labs across the country. The Abilene Network has become the most advanced native IP backbone network available to universities participating in Internet2. It supports the development of applications such as virtual laboratories, digital libraries, distance education, and tele-immersion, as well as the advanced networking capabilities that are the focus of Internet2. Abilene complements and peers with other high-performance research networks in the U.S. and internationally.

WSU faculty, researchers, and graduate students can talk with network specialists in C&IT Computing and Network Services about running applications or transferring data on the high-speed Abilene network operated by the Internet2 consortium. Call (313) 577-5558, or send an e-mail to ac4070@wayne.edu. For more information about Internet2, visit <http://internet2.edu/>, and about Abilene, visit <http://abilene.internet2.edu>.

MiLR High Performance Research Network

Wayne State University, Michigan State University, and the University of Michigan are founding members of the Michigan LambdaRail (MiLR), one of the most advanced very-high-speed dedicated research networks in higher education. MiLR connects WSU, MSU, and the U-M to each other and to national and international networking hubs in Chicago, using more than 700 miles of fiber-optic cable and dense-wavelength division multiplexing (DWDM) hardware. The MiLR Network currently supports multiple connections of up to 10 Gigabits per second each. The exceptional speed and tremendous capacity of this new network are a necessity to support much of the research at Wayne State and at other universities in the physical, social and life sciences.

WSU faculty, researchers, and graduate students can contact C&IT Computing and Network Services about accessing and running applications on the MiLR network. Call (313) 577-5558, or send an e-mail to ac4070@wayne.edu.

Technology Commercialization Support

Technology Commercialization at Wayne State University brings the benefits of scientific discovery to the public by facilitating the commercial application of research, managing and licensing intellectual property, nurturing relationships with industry and creating new business ventures based on WSU technology. WSU researchers can benefit from invention licensing and commercialization through the receipt of industry-sponsored research support, royalties and collaborative opportunities resulting from relationships with industrial sponsors or licensees. WSU Technology Commercialization has two main subdivisions, the Technology Transfer Office and Venture Development Office.

- The Technology Transfer Office (TTO) reviews intellectual property disclosures (invention disclosures) and handles the evaluation, protection, promotion and licensing of intellectual property (e.g., patents, copyrights or proprietary materials) created by University faculty, staff or students using University resources. The Venture Development Office facilitates the creation of startup companies based on WSU technologies and encourages entrepreneurship on the part of faculty and students. In terms of other services, Technology Commercialization staff are the first contact in the review and approval process for material transfer agreements (MTAs) which cover the transfer of proprietary biological and other materials from outside organizations to WSU. For information on the invention disclosure process and WSU's patent and copyright policy, contact Technology Commercialization directly or go to our web site: <http://www.techtransfer.wayne.edu/>.
- For information on the MTA review and approval process, contact Technology Commercialization directly or go to our website: http://www.techtransfer.wayne.edu/material_transfer_agreements.asp
- For general information about intellectual properties (e.g., patents, copyrights and propriety biological material), request a copy of one or more of the following publications:
 - An Inventor's Guide to Patents and Patenting
 - Prior Art: Silent Time Bombs That Can Blow Away Licensing Deals
 - Material Transfer Agreements
 - Copyright Protection of Software, Multimedia and Other Works
 - Development and Deployment of Digital Works in Universities
 - Academic Technology Transfer: Driving Public Use of University Research Results
 - The Better World Report

If you believe you have developed technology with commercial potential, contact the Technology Transfer Office immediately to obtain an invention disclosure form. Keep in mind that publication or any public disclosure of an invention before a patent application has been filed may destroy patent rights in most countries. If you are interested in developing a start-up

company based on technology developed at WSU, please contact the Venture Development Office.

Information, publications and forms can be obtained from Technology Commercialization at 5057 Woodward, Suite 6306, Detroit, MI 48202; phone: 577-5541; fax 577-2814; e-mail ad2217@wayne.edu; and web site: <http://www.techtransfer.wayne.edu/>.

Funding Programs for Faculty

Faculty Programs with Fixed Deadlines

SEPTEMBER

Working Groups in the Humanities and Arts Program

Deadline: September 18, 2009

Maximum Award: The Humanities Center will fund up to five working groups making available a maximum of \$800 each for three new groups and \$600 for each two continuing groups. Working groups will be able to use funds for photocopying, inviting speakers, and other organizational expenses. The Center will give preference to new working groups, and is willing to assist groups in finding meeting places in the Faculty/Administration Building.

To participate in this program, groups of three or more Wayne State University faculty, or faculty and advanced graduate students, in the humanities, arts, and related disciplines willing to commit to regular meetings throughout the academic year are encouraged to submit proposals. The Center will give favorable consideration to newly formed working groups.

Proposals for new working groups should consist of:

1. A brief (1-2 page) summary of the issue or theme the group proposes to address, the relevance of that theme to the humanistic and/or artistic fields, and ways in which the group intends to address that issue or theme;
2. The names, departmental affiliations, and contact information for core members of the proposed group and names of potential participants; and
3. An estimated budget, listing any planned projects and expenses.

Proposals for continuing groups should consist of a 1-2 page summary of the group's progress in the previous year and the direction in which the group wishes to proceed, as well as items **(2)** and **(3)** listed above. Preference will be given to proposals for new groups.

Proposals should be sent to The Humanities Center, Attn: Walter F. Edwards, Director, 2226 Faculty Administration Building. For more information about the Humanities Center and its programs, please contact the Center at 577-5471 or visit our website at <http://www.research.wayne.edu/hum/>.

OCTOBER

Research Mentors Program for New Faculty

Maximum Award: \$2,000

Fall Deadline: October 12, 2009

Winter Term Deadline: February 22, 2010

The funds in this program are used to encourage a productive mentoring relationship between tenured faculty with strong research records and success in obtaining extramural research funding and newly recruited junior faculty. This yearlong mentorship is meant to provide guidance to junior faculty in all aspects of research program development, focusing on external funding opportunities. Mentoring activities include guidance in establishing an independent research program, critique of manuscripts and grant proposals/applications, development of collaborative research opportunities and guidance in participation in national activities, such as peer reviews. All new tenure-track faculty members who are in the first two years at WSU are eligible for a senior faculty mentor.

Submit nominations for senior mentors in memo format to Gloria Heppner, Associate Vice President for Research, with signature approvals from the appropriate chairperson and dean. Memos can be e-mailed as pdf attachments to heppnerg@wayne.edu with a copy to sjames@wayne.edu, delivered to 5057 Woodward, Suite 6200, or faxed to 577-3626 and should include a brief summary of mentoring activities. Payment to the mentor's account is made upon verification of application for external funding by the junior faculty member (a copy of the cover page of the submitted proposal is sufficient). If you need additional information, please e-mail sjames@wayne.edu or call 577-8997.

NOVEMBER

Faculty Competition for Post-Doctoral Fellows

Fall Deadline: November 2, 2009

Winter Deadline: May 3, 2010

The Office of the Vice President for Research (OVPR) has created the ***Faculty Competition for Post-Doctoral Fellows*** to enhance the productivity of WSU faculty by augmenting their capacity to attract and support post-doctoral fellows. This initiative will provide matching funds of up to 30K per year for a maximum of 60K for two years to support the requested post-doctoral position. We anticipate funding up to ten awards. These post-doctoral positions will be awarded directly to faculty on a university-wide competitive basis for support of their research/scholarship and training endeavors. ***It is required that sufficient matching funds be committed at the time of application.*** Matching funds may come from sources such as applicant's department or college, grant support, or start-up funds.

Eligibility to receive a post-doctoral position is limited to full-time WSU faculty members with active research interests and responsibilities. Post-doctoral candidate must be a U.S. citizen or permanent resident and must be a new hire.

Visit <http://www.research.wayne.edu/funding/internal-funding.php> for application instructions. Applications will be accepted on **November 2, 2009** and **May 3, 2010** deadlines, **no later than 5:00 p.m. on the deadline date**. Please send as **one e-mail attachment to sjames@wayne.edu**. The e-mailed document should be in **PDF format** and include the ***cover sheet with the chair and dean/directors' signatures, application, and biosketches all in one document***. Biosketches should not exceed **4 pages each**. If you have questions, please contact Sarah James in the Office of the Vice President for Research at 577-8997 or sjames@wayne.edu.

Humanities Center Edward M. Wise Dissertation Fellowship

Deadline: November 13, 2009

Maximum Award: \$12,000

The Humanities Center offers one doctoral student in the Humanities and Arts up to \$12,000 in support, during the final stages of writing his or her dissertation.

Applicants for this fellowship must be doctoral candidates in the final stages of writing dissertations in the humanities, arts, or related disciplines. These disciplines include philosophy, language, linguistics, literature, history, jurisprudence, archaeology, comparative religion, ethics, the arts, those aspects of social sciences that have humanistic content and employ humanistic methods, and the study and application of the humanities to the human environment.

Eligibility

1. Applicant must be enrolled in good standing as a Ph.D. candidate in a humanities or arts discipline at WSU.
2. Must have a dissertation topic, outline, and prospectus approved by his/her dissertation committee and the Graduate School by the application deadline of November 13, 2009.
3. Must have completed all requirements for the Ph.D., except the dissertation.

Applications may be downloaded in PDF format from the Humanities Center website at www.research.wayne.edu/hum/ or picked up at the Humanities Center at 2226 Faculty/Administration Building. Proposal (15 copies) must be submitted to the Humanities Center (Attention: Walter F. Edwards) by 5:00 pm on November 13, 2009.

Humanities Center Open Competition

Deadline: November 13, 2009

Maximum Award: The Center will fund up to three (3) projects up to \$4,000 each

Eligibility: All WSU full time faculty are eligible to apply.

The Humanities Center strives to be open and inclusive as possible in its annual competitions and to offer a variety of rich and broad themes and topics; however, the Center also recognized

that some themes or topics inadvertently might exclude important and exciting research at a critical time in its development. The intent of the "Open Competition" grant, then, is to compensate for these unavoidable exclusions.

Criteria

The proposed project:

- makes an innovative and excellent contribution to the humanities or arts
- does not conform to guidelines for other competitions sponsored by the Humanities Center
- is at a critical point in its development toward publication

Application

Each application must include the following:

- A narrative describing the project and indicating clearly and in detail how this project will contribute to the humanities (maximally six pages, double-spaced). The narrative should emphasize, in particular, why support is needed at this particular time in the project's development, including plans for publication. Some attention should be given to why this project is not eligible for other Humanities Center or university competitions.
- A budget with a succinct, explanatory narrative
- an updated CV

Fifteen (15) copies of the application and CV should be sent to The Humanities Center, Attn: Walter F. Edwards, Director, 2226 Faculty Administration Building. For more information about the Humanities Center and its programs, please contact the Center at 577-5471 or visit our website at <http://www.research.wayne.edu/hum/>.

Humanities Center Visiting Scholars Program

Deadline: November 13, 2009

Maximum Award: \$3,000 per semester

This year, the Center will only be accepting applications for the Winter 2010 semester.

We invite applications from scholars affiliated with universities whose research projects involve theoretical, historical, or philosophical issues in the humanities. Scholars engaged in interdisciplinary humanistic research are particularly encouraged to apply. The program may be especially appealing to faculty on sabbatical leave or those holding research grants or post-doctoral awards.

The Visiting Scholar should already hold the Ph.D. or its equivalent, for his or her field. However, university professors with a Masters degree will be considered as well. International applications are encouraged, but visa and related documents, if required, are the responsibility of the applicants. We invite applications for visits ranging in duration from one month to one semester. During, or at the completion of the visit, the scholar will be expected to give a public

lecture on his/her research. The visitor will also be expected to collaborate with faculty, be available to students, and participate in Humanities Center's activities.

Applicants are required to provide the following:

- A detailed description of the research project to be funded in residency
- A curriculum vitae
- Two letters of reference (to be sent directly to the Center's Director)

Please forward applications to The Humanities Center, Attn: Walter F. Edwards, Director, 2226 Faculty Administration Building. For more information about the Humanities Center and its programs, please contact the Center at 577-5471 or visit our website at <http://www.research.wayne.edu/hum/>.

Bridge Funding Program

Fall Deadline: November 16, 2009

Winter Deadline: March 15, 2010

Summer Deadline: July 19, 2010

Maximum Award: \$35,000

This program is designed to sustain research projects that have lost extramural funding by providing one-time support to eligible Principal Investigators (PI) – Assistant, Associate and Full Professors – to assist with re-establishing external funding (e.g. NSF, NIH, DOD, ASC, etc). The size of the award will not exceed \$35,000 per year for up to two years. Applicants may only apply for one year's funding at a time. Applications will be accepted three times a year: **the Monday on or following the 15th day of March, July and November. Awards will be competitive and all applications may not be funded.**

Faculty salary will not be supported by this mechanism and will remain the responsibility of the unit (college, school, department, center, institute) which incurred the original obligation. A letter of support will be required from the Department Chair, Dean or Director responsible for providing salary and space support to the applicant (see Application Requirements).

A PI is eligible for Bridge Program funding, provided he/she:

- Has lost, or will lose most of his/her extramural funding within six months of the Bridge application deadline;
- Received extramural funding from peer-reviewed sources no longer than 18 months prior to the time of the application for Bridge Funding;
- Has made substantial efforts to re-establish funding, and in the opinion of the Dean is likely to be funded again.

Note additional requirements:

- PIs with multiple external grants may request support for the lapsed grant, but incentive bonuses on the active grants will be discontinued during the time of bridge funding;

- PIs who have submitted a proposal for national funding but who have not been reviewed yet should not submit a proposal until there is clear evidence that funding was denied;
- When extramural funding is re-established, all unspent funds must be returned to the Bridge Program to assist other investigators.

Exceptions to eligibility may be made by the Vice President for Research under unusual circumstances.

Click on <http://www.research.wayne.edu/funding/internal-funding.php> for further information and guidelines on applying.

DECEMBER

University Research Grant Program

Deadline: December 1, 2009

Maximum Award: \$10,000

The University Research Grant Program, budgeted at \$160,000 (per WSU/AAUP agreement), provides funding for regular full-time tenure-track faculty and academic staff: (1) to support research in the form of faculty salaries for which a period of extended uninterrupted activity is essential, and (2) to support the purchase of supplies and equipment to support the proposed research. Other legitimate research expenses such as travel and support personnel, when they are necessary to perform research, will be allowed but must be properly justified. Support to attend a professional meeting may also be requested. Only one application may be submitted per faculty member.

The application form is available for download at: <http://provost.wayne.edu/awards.php>. Completed applications require the endorsement of the department chairperson and dean. Send completed application, including necessary signatures, and curriculum vita in PDF format to Claressa Adams at c.adams@wayne.edu. Applications will be evaluated by the University Research Grant Committee, and awards will be announced in the first half of March 2010. If you need additional information, please e-mail c.adams@wayne.edu or call 577-9001.

JANUARY

Research Stimulation Program for Tenured Faculty

Deadline: January 4, 2010

The Office of the Vice President for Research (OVPR) is pleased to offer a new faculty program aimed to reenergize and increase the scholarly productivity of tenured faculty at WSU whose productivity has declined from previous peaks. OVPR would like to partner with schools and departments to support the goals of faculty who have the motivation, time, and support from their department to retool their research program.

Participation in this stimulation program will be faculty initiated. Tenured faculty members from all disciplines are encouraged to apply. Applications must be submitted to OVPR electronically by January 4, 2010, and the award maximum is \$50,000 for one and up to two years.

For more details, please visit: <http://www.research.wayne.edu/funding/internal-funding.php>.

Faculty Competition for Graduate Research Assistantships (GRA)

Deadline: January 19, 2010

GRA positions will be awarded directly to faculty on a university-wide competitive basis for support of their research/scholarship and training endeavors. Funding for the assistantships will be awarded primarily on the merits of the proposed research/scholarship or training opportunities, the past productivity of the investigator(s), the award's potential for increasing publication output and external funding, and the alignment with the university/unit strategic goals and objectives as well as the research/scholarship and training priorities identified by the schools/colleges.

Appointment to these GRA positions is restricted to Ph.D. students at the time of the appointment. The research conducted by the appointed GRA must be directly related to his/her own dissertation research. Requests for GRAs require the approval of all department chairs and deans of the faculty involved. For requests involving more than one school or college, one dean should be designated as the lead dean.

Click on <http://www.research.wayne.edu/funding/internal-funding.php> to download a blank application form. Applications should be submitted collectively by the school or college accompanied by a cover letter from the dean indicating the school or college's research/scholarship and training priorities. A ranking of submitted proposals by an internal school or college committee representative of faculty research areas should also be included. Each dean's office should submit an e-mail to sjames@wayne.edu with attached cover letter, biosketches or abbreviated CVs, signature page(s), and electronic proposals in PDF format by January 19, 2010.

If you have questions regarding the pre-funding stage, contact Sarah James in the Office of the Vice President for Research at sjames@wayne.edu or 577-8997. For post-funding questions, contact Carole Barduca in the Graduate School at 577-8051.

Educational Development Grant Award

Deadline: January 29, 2010

As defined by the WSU/AAUP Agreement, awards under this provision are intended to aid in the improvement of teaching, the development of new departmental and inter-departmental courses, the development of new approaches to existing courses, and the employment of new

materials in courses. Projects in such areas as advising, counseling and library usage are also considered. The awards may be used for summer salary, release time during the academic year, student assistants or necessary supplies and equipment.

Click on <http://provost.wayne.edu/awards/educdevapplication10.pdf> to download the application form. Please deliver completed application to Associate Vice President Howard Shapiro (hshapiro@wayne.edu) at 4092 F/AB.

FEBRUARY

Research Mentors Program for New Faculty

Maximum Award: \$2,000

Fall Deadline: October 12, 2009

Winter Term Deadline: February 22, 2010

See October entry for details.

MARCH

Bridge Funding Program

Fall Deadline: November 16, 2009

Winter Deadline: March 15, 2010

Summer Deadline: July 19, 2010

Maximum Award: \$35,000

See November entry for details

APRIL

Humanities Center Faculty Fellowships

Deadline: April 6, 2010

Theme: "Gender and Sexuality"

Average Award: \$6,000

The Humanities Center was established to foster, promote, and fund research and creative activity by faculty and students in the humanities. The Center sponsors an annual competition for faculty fellowships, for which tenured and tenure-track faculty in the humanities and arts may apply. Proposals for the 2010-2011 competition should address the theme "Gender and Sexuality". The Center will fund up to six proposals. Recipients are expected to participate in the annual Faculty Fellows Conference held in the spring of the following year.

Click on <http://www.research.wayne.edu/hum/> and follow link for Faculty Fellowships to download application form. Deliver or mail 15 copies of the completed applications to the Humanities Centers office at 2226 Faculty Administration Building. If you need additional information, please call 577-5471 or 577-5488. For explication of this year's theme, contact the Center or visit the website at

http://www.research.wayne.edu/hum/faculty_funding/faculty_fellowship/index.html

MAY

Faculty Competition for Post-Doctoral Fellows

Fall Deadline: November 2, 2009

Winter Deadline: May 3, 2010

See November entry for details.

JULY

Bridge Funding Program

Fall Deadline: November 16, 2009

Winter Deadline: March 15, 2010

Summer Deadline: July 19, 2010

Maximum Award: \$35,000

See November entry for details

Proposals Accepted Any Time

Detroit Medical Center (DMC) Faculty Scholar Award

Maximum Award: \$12,000

Notify the Center of Health Research of Intent to Submit one month prior to submission

Purpose

The purpose of the Detroit Medical Center (DMC) Faculty Scholar Award is to encourage faculty to work with DMC clinical experts to improve health and healthcare delivery through research. Within the DMC Faculty Scholar Award there are two areas of research emphasis: (a) clinical transformation research and (b) clinical research.

Clinical transformation research makes use of DMC electronic medical record (EMR) data and provides knowledge that will lead to improvements in healthcare quality, patient safety, nursing care delivery and/or cost effectiveness. Many patient assessments (e.g., admission, pain, wound), laboratory and diagnostic test results, pharmacy/medication data, and intervention activities including patient education are recorded in the EMR. Clinical research targets persons or groups receiving care at DMC facilities and may focus on studies of mechanisms of human illness experience or behavior, health behaviors or factors influencing health behaviors, or studies of therapies or interventions to improve health outcomes or health behaviors.

Research Funding

Funds for the Faculty Scholar Award are provided by the Detroit Medical Center

Grants/Funding

2 Clinical Transformation Research Awards per year—each up to \$12,000

2 Clinical Research Awards per year—each up to \$12,000

Projects must be completed within a 12-month time frame (e.g. data collection, analysis, and final report)

Application/Application Deadline

Proposals are accepted any time and are reviewed by the DMC Center for Clinical Research (CCR) during the next available meeting (currently the 2nd Tuesday of the month). The CRC needs two weeks to review a proposal, thus applications need to be submitted two weeks prior to the 2nd Tuesday to be considered for review at the next meeting. Direct any questions to the CHR through Dr. Cheryl Nordstrom, cnordstrom@wayne.edu. To receive an application contact Dr. Cheryl Nordstrom.

Faculty Programs with No Fixed Deadlines

Pre-Submission Review

The Office of the Vice President for Research will consider requests to cover the expense of an internal or external review of a grant proposal. We will provide \$300 for an internal review, to be placed in the reviewer's F&A account, and \$600 for an external review.

Submit the request in memo format to Gloria Heppner, Associate Vice President for Research, with signature approval from the appropriate chairperson. Please include the name of the researcher whom you would like to review your proposal, along with the person's institutional affiliation and title, area of specialization, and a brief statement as to why this person would be appropriate to review your proposal. In addition, include the targeted agency for your proposal, funding mechanism, title of project, and anticipated date of proposal submission. Memos can be e-mailed as pdf attachments to heppnerg@wayne.edu with a copy to sjames@wayne.edu, delivered to 5057 Woodward, Suite 6200, or faxed to 577-3626.

If the request is approved, the review should follow the review criteria outlined by the relevant funding agency and should be forwarded to sjames@wayne.edu when received. If the review is acceptable, the Principal Investigator's department administrator should complete necessary paperwork and our office will transfer funds to cover the cost of the review. If you need additional information, please e-mail sjames@wayne.edu or call 577-8997.

Award for Graduate Students Who Obtain External Support

Maximum Award: \$2,000

This program provides supplemental research funds for individual students who are successful in obtaining monetary support from an external agency specifically related to a research project. Awards are 25% of the award amount to a maximum of \$2,000 to use as supplemental research funds. Half of the total award is provided to the student and the other half to his/her advisor's F&A account. An academic scholarship or appointment to an institutional training grant does not qualify a student for this support program. Money is to be used to support the externally funded research project, e.g. research equipment, subject payment, database subscriptions.

Submit requests in memo format to Gloria Heppner, Associate Vice President for Research. Memos should include a brief description of the research project, projected budget and budget justification, advisor and student name, department, and contact information. Please include a copy of the award verification with the request. Requests can be sent to heppnerg@wayne.edu with a copy to sjames@wayne.edu, delivered to 5057 Woodward, Suite 6200, or faxed to 577-3626. If you need additional information, please e-mail sjames@wayne.edu or call 577-8997.

Research Stimulation Fund Grants

The Office of the Vice President for Research has funds available for matches on proposals when the funding agency requires them. Requests for matching funds should be made to the OVPR well in advance of submitting the proposal. Such requests will be viewed most favorably when the PI's department and/or college contribute to the match. Commitments from the PI's department and/or college should be obtained in writing before making a request to the OVPR.

Submit requests for matching funds in memo format, addressed to Gloria Heppner, Associate Vice President for Research. Memos can be sent to heppnerg@wayne.edu with a copy to sjames@wayne.edu, delivered to 5057 Woodward, Suite 6200, or faxed to 577-3626 prior to submitting the proposal to the Sponsored Program Administration Office. If you need additional information, please e-mail sjames@wayne.edu or call 577-8997.

Funding Programs for Graduate Students

Graduate Student Programs with Fixed Deadlines

NOVEMBER

Humanities Center Edward M. Wise Dissertation Fellowship

Deadline: November 13, 2009

Maximum Award: \$12,000

The Humanities Center offers one doctoral student in the Humanities and Arts up to \$12,000 in support, during the final stages of writing his or her dissertation.

Applicants for this fellowship must be doctoral candidates in the final stages of writing dissertations in the humanities, arts, or related disciplines. These disciplines include philosophy, language, linguistics, literature, history, jurisprudence, archaeology, comparative religion, ethics, the arts, those aspects of social sciences that have humanistic content and employ humanistic methods, and the study and application of the humanities to the human environment.

Eligibility

1. Applicant must be enrolled in good standing as a Ph.D. candidate in a humanities or arts discipline at WSU.
2. Must have a dissertation topic, outline, and prospectus approved by his/her dissertation committee and the Graduate School by the application deadline of November 13, 2009.
3. Must have completed all requirements for the Ph.D., except the dissertation.

Applications may be downloaded in PDF format from the Humanities Center website at www.research.wayne.edu/hum/ or picked up at the Humanities Center at 2226 Faculty/Administration Building. Proposal (15 copies) must be submitted to the Humanities Center (Attention: Walter F. Edwards) by 5:00 pm on November 13, 2009.

JANUARY

The McNair-LSAMP Graduate Scholarships

Deadline: January 15, 2010

The Graduate School has established the McNair-LSAMP Scholarship Program beginning in Academic Year 2010-11. The new program, designed to attract and support new graduate students (masters or doctoral), provides a tuition scholarship covering up to twelve graduate credits at the resident or non-Michigan resident rate for each of the fall and winter semesters of 2010-11. Eligible students must have completed a Ronald E. McNair Scholars (McNair) or Louis Stokes Alliance for Minority Participation (LSAMP) program as an undergraduate; must be new to Wayne State University (students who have received their undergraduate degrees from

Wayne State are not eligible); are nominated by the graduate director of the applicant's intended academic program; and have a G.P.A. equal to or greater than 3.2.

Nominated students who are successful in receiving a McNair-LSAMP Scholarship must register full time for a minimum of eight graduate credits during each semester of the award year and make satisfactory progress toward the degree.

Nominations of eligible new or prospective students should be submitted by the graduate program director. Applications from students will not be considered. The nomination of an award recipient should include:

- A nomination letter providing the new or prospective student's name and student ID (if applicable). The letter should highlight:
 1. the nominee's qualifications for the award;
 2. evidence that the nominee completed either a McNair or LSAMP program as an undergraduate.
- Letters of recommendation submitted with the application for admission to the program.

Nominations for the McNair-LSAMP Scholarship should be submitted to the attention of Crystal Turner, Diversity Program Coordinator, The Graduate School, 4012 FAB or e-mailed to cturner@wayne.edu.

FEBRUARY

The Dean's Diversity Fellowship

Deadline: February 8, 2010

The Dean's Diversity Fellowships have been established to increase the number of Ph.D. candidates who demonstrate contributions to program/college diversity in the Science, Technology, Engineering and Mathematics (STEM or Social, Behavioral & Economics (SBE) Science fields traditionally funded by NSF. Three awards are made annually and include a tuition, stipend, housing and medical insurance to qualified PhD students in these fields. Additional information and applications are available on the Graduate School website at <http://www.gradschool.wayne.edu/Current/finaid.asp>.

MARCH

Graduate-Professional Scholarships

Deadline: March 1, 2010

The Graduate School sponsors one competition annually for Graduate-Professional Scholarships (GPS). The competition is held for full academic year tuition awards (fall and winter terms). Scholarships are offered to qualified applicants pursuing graduate (Master's, Ph.D.,) or advanced professional (Ed.D., M.S.W.) degrees in all university programs. New students should

apply for graduate admission no later than December and must be admitted by May 1 to be considered in the competition. Applicants should confirm their admission status with their academic department. Awards are based on merit and available to both full-time and part-time students. The scholarship will provide resident tuition payment up to twelve graduate credits each term for the fall and winter terms regardless of the applicant's status as a full or part-time student. Students holding graduate assistantships or other tuition paying fellowships, internships, traineeships or scholarships, and salaried or full-time employees of Wayne State University are not eligible to hold this award.

Additional information and applications are available on the Graduate School website at <http://www.gradschool.wayne.edu/Current/finaid.asp>. Students pursuing the J.D. or M.D. degrees should consult the Law School or School of Medicine concerning financial assistance.

APRIL

The Munich Exchange Fellowship

Deadline: April 1, 2010

The Graduate School sponsors one competition annually for the Munich Graduate Exchange-Fellowship Program. This award provides the opportunity for one academic year of study at the University of Munich and a compensated teaching assistant position. The assistantship will require working a small number of hours per week at a University of Munich institute, international office or language center. The teaching assistant compensation will be \$400 Euros (about \$560 U.S. dollars) per month, which can be used to cover part of the award recipient's accommodation and living expenses. The tuition fees will be waived for the recipient. Eligible students must be U.S. citizens, admitted to a Wayne State University graduate program and have written and oral competence in the German Language. Additional information and applications are available on the Graduate School website at <http://www.gradschool.wayne.edu/Current/finaid.asp>. Students pursuing the J.D. or M.D. degrees should consult the Law School or School of Medicine concerning financial assistance.

The King-Chavez-Parks Future Faculty Fellowship Program

Deadline: April 1, 2010

The Graduate School sponsors one competition annually for King-Chavez-Parks Future Faculty Fellowships. The KCP Fellowship provides an annual stipend from one to three years, up to a maximum of \$35,000 over a three-year period. The purpose of the Fellowship is to assist students who intend to pursue a full-time teaching position in a post secondary institution within one year of receiving their doctoral degree at Wayne State University. Applications are encouraged from minorities, women, persons with disabilities and individuals from cultural, linguistic, geographic, and socio-economic backgrounds, who would otherwise not adequately be represented in the graduate student and faculty populations. Eligible applicants must also be United States citizens or permanent residents and have Michigan residency status as defined by the university. The Fellowship may be used to supplement other awards.

Additional information and applications are available on the Graduate School website at <http://www.gradschool.wayne.edu/Current/finaid.asp>. Students pursuing the J.D. or M.D. degrees should consult the Law School or School of Medicine concerning financial assistance.

Graduate Student Programs with No Fixed Deadlines

Graduate Student Professional Travel Support

Maximum Award: \$250

Limited Graduate School travel support is available for master's and doctoral students who are presenting scholarly papers or posters at major professional meetings. Departmental cost sharing is required. The school/college dean's office and/or the department handle applications and authorization for these awards. Information and applications are available in the department or dean's office.

Thesis and Dissertation Research Support

Maximum Award: \$500 thesis; \$1,000 dissertation

The Graduate Thesis/Dissertation Research Support Program is a grant program for WSU graduate students who are engaged in approved thesis/dissertation research. These grants are intended to help defray necessary but unusual expenses essential to the performance of thesis or dissertation research. Reimbursement for costs associated with preparation of the thesis or dissertation manuscript itself are not allowable under this program. Awards are limited to a maximum of \$1,000 for dissertation research and \$500 for thesis projects. Matching support from the student's department is required. Eligibility is restricted to one award per student per degree. Funds from the Thesis/Dissertation program must be spent within six months of the date of award. The application is available for download by clicking on <http://www.gradschool.wayne.edu/funding/2008ThesisDissertationApplication.pdf>. Applications should be submitted to the Graduate School at 4012 F/AB (577-2170).

Award for Graduate Students Who Obtain External Support

Maximum Award: \$2,000

This program provides supplemental research funds for individual students who are successful in obtaining monetary support from an external agency specifically related to a research project. Awards are 25% of the award amount to a maximum of \$2,000 to use as supplemental research funds. Half of the total award is provided to the student and the other half to his/her advisor's F&A account. An academic scholarship or appointment to an institutional training grant does not qualify a student for this support program. Money is to be used to support the externally funded research project, e.g. research equipment, subject payment, database subscriptions.

Submit requests in memo format to Gloria Heppner, Associate Vice President for Research. Memos should include a brief description of the research project, projected budget and budget justification, advisor and student name, department, and contact information. Please include a copy of the award verification with the request. Requests can be sent to heppnerg@wayne.edu

with a copy to sjames@wayne.edu, delivered to 5057 Woodward, Suite 6200, or faxed to 577-3626. If you need additional information, please e-mail sjames@wayne.edu or call 577-8997.

Thomas C. Rumble University Graduate Fellowships

Deadline: Determined by the School or College Dean's Office

The Graduate School provides support to schools and colleges for Thomas C. Rumble Fellowships. Full-time graduate students pursuing a Ph.D., M.M., or M.F.A. degree are eligible to apply. The academic year, non-service award includes: a stipend, tuition scholarship, subsidized medical, vision and dental insurance coverage and a housing allowance. Students may not concurrently hold a graduate assistantship, other fellowship, internship, traineeship, scholarship, or full-time employment, Information is available from applicant's Dean's Office.

Funding Programs for Undergraduate Students

Office of Undergraduate Research

Undergraduate research funding is sponsored by the Office of Undergraduate Research 2100 Undergraduate Library. [Contact Person: Kevin Rashid (ac1616@wayne.edu)]

Undergraduate Research and Creative Projects Award

Winter Deadline: November 25, 2009

Summer Deadline: March 24, 2010

The Undergraduate Research and Creative Projects Award is intended to enhance the opportunities undergraduate students have to participate in research and creative activities under the guidance of faculty members. Undergraduates are invited to submit proposals for research or creative projects that are sponsored by faculty and involve the undergraduate(s) working in collaboration with a faculty sponsor. Research projects will normally focus on the development and testing of a hypothesis or theory using methods relevant to one or more the academic discipline(s). Creative projects will involve the development of new materials--for instance artistic, literary, educational, or physical--by methods other than those traditionally considered as research.

The Office of Undergraduate Research (OUR) will fund proposals at a maximum of \$3,050 each. Up to \$2,300 is available for the student, either as tuition remission or a stipend. Up to \$750 is available for justified research costs. A research project could involve up to three undergraduates working with a faculty member.

OUR is located in the Honors Program, 2100 Undergraduate Library. (313) 577-3030. E-mail questions to undergradresearch@wayne.edu.

Undergraduate Funds for Travel to Conferences (UFTC)

The Undergraduate Funds for Travel to Conferences (UFTC) is a program sponsored by the Office of Undergraduate Research (OUR) to support undergraduate student research and encourage creative presentations at conferences and other similar events.

Awards of up to \$750 are made on the basis of merit to support the travel costs of undergraduate students who present papers or poster sessions or who perform or exhibit at refereed meetings and events. The UFTC does not provide funds for international travel, with the exception of events that are held in Canada.

HOW DOES ONE APPLY?

For application forms visit <http://undergradresearch.wayne.edu/>, and click on "research grants." Completed applications must be submitted to 2100 University Undergraduate Library at least four (4) weeks prior to the departure date. Retroactive funding of travel will not be considered.

If you would like to comment on this booklet, please e-mail Sarah James at sjames@wayne.edu.

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