WEEKLY FUNDING ALERTS
Week of 12.02.10

Featured Funding Opportunities

Medical Research Foundation (MRF) of Oregon – Multiple Opportunities

- **New Investigator Grant** – Supports promising new investigators in biomedical research. Grants are intended for physicians and scientists who are new to research and are currently without major funding resources. || **Amount:** Up to $40,000 for one year. || **Eligibility:** PIs must be at the beginning of an independent career with a faculty position at one of Oregon's colleges or universities. A letter of support from the department chair or division head must accompany each application describing the independence of the PI and the commitment of the unit to that investigator and their research program.
- **Early Clinical Investigator Grant** – Supports promising biomedical exploration and the development of clinical research careers in Oregon. || **Amount:** Up to $20,000 for one year. || **Eligibility:** PIs must be post-doctoral trainees or clinical fellows with specific plans for a career in clinical research. A letter of support from the department chair or division head and from the director of the training program must accompany each application. A letter from the applicant's mentor should also be included.
- **Emergency Interim Support Grant** – Supports established investigators who are in need of bridge funding. The grant provides funding for research programs that have lost national grant funding, enabling investigators to develop data supporting application renewals. || **Amount:** Up to $40,000 for one year. || **Eligibility:** The application must contain a clear explanation of current grant funding and the status of grants in revision.

Deadline: February 15, 2011; May 15, 2011; August 15, 2011; November 15, 2011

Non-Federal, Foundation and Corporate Opportunities

OHSU Foundation Tracking and Clearance: *Please note all of the following private foundation opportunities require OHSU Foundation clearance, unless otherwise indicated. If you intend to apply, please follow the instructions and complete the OHSU Foundation tracking and clearance form available here.*

Michael J. Fox Foundation for Parkinson's Research (MJFF) – Multiple Opportunities

- **Clinical Intervention Awards** – Supports clinical testing of promising Parkinson's disease (PD) therapies that may significantly and fundamentally improve treatment for people with PD. Proposals will be evaluated based on demonstrated promise in pre-clinical tests or demonstrated clinical efficacy in other disease indications that would justify testing in PD. If such data are unpublished, it will be the responsibility of the applicant to provide all relevant data supporting the rationale for a particular therapeutic approach. || **Amount:** Varies – See full announcement. || **Eligibility:** See below and full announcement.
- **Repositioning Drugs for Parkinson's Disease** – A new program that supports the repositioning of clinically safe compounds from other indications to PD research. Projects appropriate for this program will test drugs that have already been proven safe in a clinical trial for an unrelated indication or are Food and Drug Administration (FDA)-approved, to determine whether the therapeutics are efficacious in treating PD. Studies can be preclinical or clinical in nature and should be designed to strengthen the rationale for testing the compounds in people with PD. MJFF is particularly eager to reposition compounds that could show benefit for both motor and non-motor symptoms of PD. || **Amount:** Varies – See full announcement. || **Eligibility:** See below and full announcement.

Deadline: Letter of intent: December 15, 2010 / Full application: March 16, 2011
Eligibility: Applications may be submitted by U.S. and non-U.S. entities, public and private non-profit entities, such as universities, colleges, hospitals, laboratories, units of state and local governments, and eligible agencies of the federal government. Collaborative efforts are welcome and for-profit entities are also eligible and encouraged to apply. Postdoctoral fellows are not eligible to apply as PIs.

Pediatric Endocrine Society – Multiple Opportunities

- **Research Fellowship Awards** – Supports the final year of research training for highly qualified individuals preparing for a career in academic pediatric endocrinology. Both clinical and basic research projects are eligible. || **Amount:** $50,000 for one year. || **Eligibility:** Associate members in good standing of the Pediatric Endocrine Society who are in an approved training program in Pediatric Endocrinology are eligible for the Research Fellowship Award. Applicants must have medical degree. Those with career plans in North America are favored.
- **Clinical Scholar Awards** – Promotes mentored research and career development for young faculty members in academic pediatric endocrinology. || **Amount:** $50,000 per year for two years. || **Eligibility:** Associate members and members in good standing of the Pediatric Endocrine Society are eligible for the Clinical Scholars Award. Candidates may apply for support to begin during the first three years of a junior faculty position in Pediatric Endocrinology. Completion of a minimum of two years of pediatric endocrinology training is required. Faculty rank should not exceed Assistant Professor. Applicants must have a medical degree. Those with career plans in North America are favored.

Deadline: December 17, 2010

Emergency Medicine Foundation (EMF) – Multiple Opportunities

Description: For this grant cycle, EMF encourages applications with a focus on health services research, including but not limited to, health policy, practice, medical liability, regionalization, patient safety, and hospital utilization. However, it is important to note that EMF welcomes all applications, including research that is not health services-based. The following awards are available:

- **Research Fellowship Grant** – Provides an opportunity for formal education in research methodologies, and experience in research in preparation for an academic career as a research scientist. The fellow should work in an active, progressive research environment that intimately involves the fellow in the conception, planning, conduct, and reporting of emergency medicine research. At the end of the Fellowship, the fellow should have a firm foundation in the fundamentals that will prepare the fellow to conduct independent research and compete effectively for extramural funding. || **Amount:** Up to $150,000 total over a two-year period. || **Eligibility:** The research fellow must be a graduate of an emergency medicine residency training program at the beginning of the proposed funding period. Fellowship proposals pursing additional degrees (MS, PhD, etc.) will receive the highest priority.
- **Career Development Program** – Provides an opportunity for applicants to develop a project from its rudimentary conception into a more sophisticated form that will permit him or her to apply for extramural funding. The applicant should work in an active, progressive research environment that intimately involves the applicant in the conception, planning, conduct, and reporting of emergency medicine research. At the end of the award period, the applicant should have established long-term research interests and be able to conduct independent research and compete effectively for extramural funding. || **Amount:** Up to $50,000 for one year. || **Eligibility:** Applicants must have and MD, DO, PhD or equivalent degree and hold the rank of instructor or assistant professor in an accredited US medical school and have a primary faculty appointment in an approved emergency medicine residency program.
- **Health Policy Research Grant** – Supports the delivery of quality emergency care by providing funding for health policy projects that examine dynamic societal issues related to emergency medical care. Specifically, this award funds research projects in health policy or health services research topics. || **Amount:** Up to $50,000 for one year. || **Eligibility:** The PI should be recognized as an accomplished investigator in the area of study proposed, and must have proven ability to pursue independent research as evidenced by original research publications in peer-reviewed journals or funding from extramural sources. The PI must have a primary faculty appointment in Emergency Medicine.
- **EMF/Emergency Nurses Association (ENA) Foundation Directed Team Grant in Emergency Department Overcrowding Research** – Seeks to fund research related to the topic of emergency department overcrowding. Proposals may focus on a number of related areas, including: definitions and outcome measures of emergency department overcrowding, causes and effects of emergency department overcrowding, and potential solutions to the problem of emergency department overcrowding. This opportunity exists specifically to support work that arises from a true physician-nurse partnership in a clinical research area pertinent to the practice

of emergency medicine. As such, the applicants must provide evidence of a true collaborative effort between physician and nurse professionals and must delineate the relative roles of the participants in terms of protocol development, data collection, and manuscript preparation. || **Amount:** $50,000 for one year. || **Eligibility:** Applications will be accepted from any emergency medicine physician/nurse team working full or part time in emergency care at any domestic, Joint Commission-accredited institution.

- **EMF/Emergency Medicine Residents' Association (EMRA) Resident Research Grant** – Provides funding for a research project for a resident in emergency medicine. The purpose of this grant is to maximize the applicant's educational experience in research while producing the best science in emergency medicine. || **Amount:** $5,000 for one year. || **Eligibility:** Applications will be accepted from physicians who are enrolled as residents in good standing for the proposed funding year. The resident must have a faculty preceptor who is capable of ensuring the successful completion of the proposed project. A resident may competitively apply in succeeding years for other projects.
- **Emergency Medicine Patient Safety Grant** – For identifying ways to improve patient safety in emergency medicine. Suitable research topics for this award would be those that investigate the detection and/or prevention of human errors, system errors, patient injuries and the consequences of such adverse events in the emergency department setting. || **Amount:** $10,000 for one year. || **Eligibility:** The PI should be recognized as an accomplished investigator in the area of study proposed, and must have proven ability to pursue independent research as evidenced by original research publications in peer-reviewed journals or funding from extramural sources. The PI must have a primary faculty appointment in Emergency Medicine.

Deadline: January 5, 2011

Prostate Cancer Foundation – Treatment Sciences Creativity Awards

Description: Provides two years of support for highly innovative prostate cancer research proposals that are not fundable by existing mechanisms. This round of awards will focus on funding Treatment Science: studies of new ideas in man or laboratory support of high impact clinical investigation. The Foundation is particularly interested in high-risk/high-reward concepts that, if successful, could be the basis for new treatment or a clinical diagnostic method for advanced prostate cancer. The awards are intended to bridge the gap between existing research ideas and results that will justify more significant, multi-year funding from the National Cancer Institute (NCI), Department of Defense (DoD), and other biomedical research foundations.
Deadline: January 13, 2011
Amount: $150,000 per year for two years.
Eligibility: Investigators representing non-profit academic research centers worldwide are eligible to apply. Investigators from for-profit companies and government-sponsored institutions, i.e. NIH, are ineligible.

American Society of Clinical Oncology (ASCO) – Translational Research Professorship

Description: Provides flexible funding to outstanding translational researchers who have made and are continuing to make significant contributions that have changed the direction of cancer research and who provide mentorship to future translational researchers. Applications will be accepted from researchers in all oncology specialties.
Deadline: January 13, 2011
Amount: $100,000 per year for three years.
Eligibility: Applicants must be physicians (MD, DO, or international equivalent) with a full-time faculty appointment (full professor or equivalent) in a clinical department at an academic medical center. He or she must have made significant contributions that have changed the direction of cancer research. Applicants must be serving as a research mentor to one or more translational researchers in training, and must be planning to continue to provide leadership in this area throughout the award period. Applicants must also be members of ASCO.

American Diabetes Association (ADA) – Multiple Development Opportunities

- **Career Development Grants** – To assist outstanding Assistant Professor-level faculty investigators in conducting diabetes-related research. The award supports an individual's salary and research project to enable the investigator to advance his/her career as an independent investigator. || **Amount:** Awards are $150,000 per year for up to five years, plus 15% allowable

indirect costs. Applicants may request a $25,000 stipend for each of the first two years for additional equipment. || **Eligibility:** Applicants four to seven years out of their post doctoral fellowship may apply. All applicants must have designated lab space specifically assigned to them. The applicant must have demonstrated the ability to conduct research independently of their former mentor. The applicant must be a senior or corresponding author on at least one previous publication relevant to the grant topic, preferably without mentor's co-author. Applicants must hold an assistant professorship within his/her institution or provide documentation from the Chair that he/she will receive this position upon receipt of this award. Career Development Award applicants may hold an R01 at the time of applying provided that the R01 does not overlap with the ADA award. Applicants currently holding awards with similar intent from NIH or other agencies are not eligible. However, applicants may have previously been recipients of an NIH K01, K08 or K23 award.

- **Junior Faculty Award** – These awards support new investigators who are establishing their independence in diabetes research. Applicants can have any level of faculty appointment up through assistant professor. || **Amount:** Awards are up to $120,000 per year for up to three years. Additionally, applicants can request up to $10,000 per year towards the repayment of the principal on loans for a doctoral degree (MD, PhD, PharmD, DPM or DO). There is not a fixed limit for PI Salary. || **Eligibility:** Senior postdoctoral or clinical fellows (more than three years of experience since doctoral degree) who will receive their first faculty position by the starting date of the award; or junior faculty; less than four years from completion of post-doctoral/clinical fellowship at time of application submission are eligible. Junior Faculty Awardees must hold any level of faculty appointment at his or her institution up through Assistant Professor and must provide a letter from the Department Chair delineating the institutional commitment to the development of the independent research career of the applicant.
- **Clinical Scholars Award** – The purpose of this program is to identify medical students interested in diabetes research, place them in a suitable laboratory/clinic for a year, create access to a group of research scientists and peers who share common research interests, expose the student to a relevant clinical experience, and to support the student with a stipend. In order to foster integration of scientific and clinical training, the students will ideally spend one afternoon per week in a clinical experience related to the research problem being addressed. || **Amount:** $30,000 for one year. Applicants may request up to $20,000 for the student's stipend and up to $10,000 for the faculty sponsor for lab expenses. || **Eligibility:** The student must have completed two or more years at an accredited U.S. medical, pharmacy, podiatry, or osteopathy school, and must be currently enrolled in medical, pharmacy, podiatry, or osteopathy school. Students working on their MD, PharmD, DPM, or DO are eligible.
- **Clinical Scientist Training Award** – Supports medical students who are jointly working on a degree in a research-oriented PhD Program, Masters Program in Clinical Research, or Masters Program of Public Health. The time and economic commitment on the part of a student pursuing this degree is obviously significant. The ADA has created this award to encourage them to take this step, and to make diabetes their chosen field. The ADA intends to support the brightest, most promising students to help bring much-needed new scientists into basic and clinical diabetes research. || **Amount:** $30,000 for three years. Applicants may request up to $20,000 for the student's stipend and up to $10,000 for the faculty sponsor for lab expenses. || **Eligibility:** Students must be pursuing a dual degree in Medicine, Pharmacy, Osteopathy or Podiatric medicine and a research oriented PhD, Master in Clinical Research, or Master of Public Health degree.
- **Mentor-Based Postdoctoral Fellowship Award** – Supports the training of scientists in an environment most conducive to beginning a career in diabetes research. The award will be given to an established and active investigator in diabetes research for the annual stipend support of a postdoctoral fellow to work closely with the mentor. The applicant investigator will be responsible for the application and selection of the qualified fellow. || **Amount:** $45,000 per year for four years. || **Eligibility:** Awards are limited to institutions within the U.S. and U.S. possessions. Applicants (mentors) must be U.S. citizens or possess (or have applied for) permanent resident status. Applicants must hold faculty positions or the equivalent at university-affiliated institutions. Applicants must agree to devote at least 75 percent of total time and effort to research during the period of ADA funding. A fellow who holds hold a MD, PhD, DO, DPM or PharmD degree must be

designated by the applicant at the time of submission. See full announcement for additional eligibility information.

- **Mentor-Based Minority Postdoctoral Fellowship Award** – Supports the training of minority scientists who are underrepresented in the field of diabetes research. The award will be given to an established and active investigator in diabetes research for the annual stipend support of a postdoctoral fellow to work closely with the mentor. The applicant investigator will be responsible for the application and selection of the qualified fellow. || **Amount:** $45,000 per year for two or three years. || **Eligibility:** In addition to the eligibility requirements for the Mentor-Based Postdoctoral Fellowship Award (see above), the fellow must be an eligible minority which includes: African American; Spanish, Hispanic or Latino; American Indian or Alaskan Native; and Native Hawaiian or Pacific Islander. See full announcement for additional eligibility information.
- **ADA/Merck Clinical/Translational Science Postdoctoral Fellowship Award** – Supports the training of clinical diabetes investigators in the area of clinical/translational research. The award will be given to an established and active clinical diabetes investigator (Mentor/PI) in diabetes research for the annual stipend support of a postdoctoral fellow to work closely with the mentor. The focus on outcomes research will help to further outcomes research as an important area and spur more to see it as a viable career path. The Mentor/PI will be responsible for the application and selection of the qualified fellow. || **Amount:** $75,000 per year for two years. || **Eligibility:** Awards are limited to institutions within the U.S. and U.S. possessions. Applicants (Mentor/PI) must be U.S. citizens or possess (or have applied for) permanent resident status. Applicants must hold faculty positions or the equivalent at university-affiliated institutions. Applicants must agree to devote at least 75 percent of total time and effort to research during the period of ADA funding. A fellow who holds hold a MD, PhD, DO, DPM or PharmD degree must be designated by the applicant at the time of submission. See full announcement for additional eligibility information.
- **Basic Science Award** – Provides grant support to both new and established investigators. Applications will be considered in any area that is relevant to the etiology or pathophysiology of diabetes and its complications. || **Amount:** Up to $115,000 per year for up to three years. || **Eligibility:** Applicants must hold an MD, PhD, or DPM degree or equivalent, and be U.S. citizens or permanent residents. Applicants must hold faculty or clinical faculty positions at university-affiliated institutions or other nonprofit research institutions within the U.S. Applicants must agree to devote at least 75 percent of total time and effort to research during the period of ADA funding. Recipients are required to become members of and/or maintain membership in the Professional Section of the ADA.
- **Innovation Award** – These pilot and feasibility grants are designed to support novel hypotheses that may lack preliminary data, but offer considerable promise for the cure, prevention, or treatment of diabetes. || **Amount:** Up to $50,000 per year for two years. || **Eligibility:** Applicants must hold an MD, PhD, or DPM degree or equivalent, and be U.S. citizens or permanent residents. Applicants must hold faculty or clinical faculty positions at university-affiliated institutions or other nonprofit research institutions within the U.S. Applicants must agree to devote at least 75 percent of total time and effort to research during the period of ADA funding. Recipients are required to become members of and/or maintain membership in the Professional Section of the ADA.
- **Clinical/Translational Award** – Supports patient-oriented research in diabetes. For the purpose of this award, clinical research is defined as research directly involving humans, and includes educational, psychosocial, behavioral, epidemiologic, and health services research as well as studies of normal physiology and mechanisms of disease. || **Amount:** Up to $200,000 per year for three years. || **Eligibility:** Applicants must hold an MD, PhD, or DPM degree or equivalent, and be U.S. citizens or permanent residents. Applicants must hold faculty or clinical faculty positions at university-affiliated institutions or other nonprofit research institutions within the U.S. Applicants must agree to devote at least 75 percent of total time and effort to research during the period of ADA funding. Recipients are required to become members of and/or maintain membership in the Professional Section of the ADA.
- **Research Award in Bariatric Surgery in Diabetes** – For basic science and clinical/translational diabetes investigators in the areas of bariatric procedures and diabetes. Some areas of interest include but are not limited to: (1) Understanding of mechanisms by which significant weight loss and bariatric procedures effect fuel metabolism in diabetes; (2) The role of bariatric procedures in preventing and delaying the onset of type 2 diabetes in those at high risk for diabetes; (3) The

role of bariatric procedures in the management of diabetes; and (4) Understanding of clinical effects of surgical and non-surgical approaches to weight loss. || **Amount:** $400,000 to $600,000 total for three years. || **Eligibility:** One person must be specified as the PI. Applicants must hold an MD, PhD, or DPM degree or equivalent, and be U.S. citizens or permanent residents. Applicants must hold faculty or clinical faculty positions at university-affiliated institutions or other nonprofit research institutions within the U.S.

Deadline: January 15, 2011

International Union Against Cancer (UICC) – Yamagiwa-Yoshida Memorial International Cancer Study Grant

Description: Enables cancer investigators from any country to carry out bilateral research projects abroad which exploit complementary materials or skills, including advanced training in experimental methods or special techniques.

Deadline: January 15, 2011; July 1, 2011

Amount: $10,000 for three months.

Eligibility: Applicants must possess appropriate scientific or medical qualifications and a minimum of two years of postdoctoral experience. Applicants must also have actively engaged in cancer research and have recent publications in the international peer-reviewed literature.

Cooley's Anemia Foundation – Multiple Opportunities

- **Support for Ongoing Clinical Research in Thalassemia** – Supports ongoing clinical research projects in thalassemia. The goal of this initiative is to support investigators from all disciplines and backgrounds with their ongoing clinical projects to address one or more of the following areas impacting patients with thalassemia: including but not limited to fertility, pregnancy and family planning; quality of life/psychosocial; burden of disease, cardiac issues and iron overload. This level of funding would be appropriate for support of innovative small-scale pilot studies, observational trials, or ancillary support for ongoing interventional studies (for example support of a trainee joining an existing trial, or new biological endpoint analyses for an existing trial). In the case of ancillary studies, investigators should clearly document the support for the parent trial in their "other support" declarations. || **Amount:** Up to $40,000 per year for one or two years. || **Eligibility:** Junior and senior faculty are eligible; fellows and trainees are not eligible. Investigators must interact directly with patients or patient-related data. Basic research must be related to a direct clinical focus of the grant application.
- **Gene Research in Thalassemia Translational Grant** – The purpose of this initiative is to speed the application of recent translational advances in gene therapy in thalassemia to clinical trials. Both phase I (safety) and phase II (efficacy) trials are eligible for support. || **Amount:** Up to $60,000 per year for one or two years. || **Eligibility:** The research may not be conducted at a for-profit laboratory. Because the purpose of the support is to facilitate launch of clinical trials, eligible studies must be accompanied by a realistic timeline of progress to human trials. The Foundation recognizes that this timeline can be long. Applicants should state explicitly the status of their proposed trials, for example whether the trial has been approved by the recombinant DNA Advisory Committee (RAC), or Food and Drug Administration (FDA), or whether review meetings at regulatory agencies have been scheduled.
- **Research Fellowships** – Provides fellowship support to clinical or basic science investigators interested in thalassemia research or a closely related field. The areas of interest for funding emphasize, but are not limited to, studies of globin gene regulation, globin gene transfer and expression, fetal hemoglobin production, hematopoietic stem cell research, bone marrow transplantation, iron chelation and iron overload, endocrine and cardiac disorders in thalassemia, and transfusion therapy and its complications. || **Amount:** $32,500 for one or two years. || **Eligibility:** Postdoctoral fellows and junior faculty members investigating clinical or basic research related to thalassemia are eligible. Postdoctoral fellows should hold MD, PhD or equivalent degrees and require sponsorship by a faculty mentor. Junior faculty applicants should not have held the rank of Assistant Professor for more than five years and must not have already received R01 level support.

Deadline: Letter of intent: January 15, 2011 / Full application: February 7, 2011

Juvenile Diabetes Research Foundation (JDRF) – Multiple Opportunities

Description: The purpose of these opportunities is to find a cure for type 1 diabetes and its complications through the support of research. JDRF is seeking proposals for the following programs:

- **Career Development Awards** – For qualified and promising scientists early in their faculty careers, to give them the opportunity to establish themselves in areas that reflect the JDRF research emphasis areas (see full announcement). || **Amount:** $150,000 per year for five years. || **Eligibility:** For individuals in a relatively early stage of their career. Ordinarily, their first degree (MD, PhD, DMD, DVM, or equivalent) will have been received at least three but not more than seven years before the award. The applicant must hold an academic faculty-level position (including assistant professor or equivalent) at the time of the application. There are no citizenship requirements for this program.
- **Advanced Postdoctoral Fellowships** – Provides full time research training to promising individuals who are transitioning from a fellowship to an independent (faculty-level) position. JDRF envisions the three-year award term as a period in which fellows will receive critical research training that will position them to work at the leading edge of their chosen field. || **Amount:** Up to $90,000 per year for three years. || **Eligibility:** The fellowships are intended for those in a relatively early stage of their career. Generally, their first degree (PhD, MD, DMD, DVM, or equivalent) will have been received no more than five years before the fellowship. Applicants who have completed one to three years of postdoctoral training and now show extraordinary promise may wish to apply for this “advanced” award. Alternatively, exceptionally qualified and talented individuals are encouraged to apply at the beginning of their careers. This program is targeted to those who would benefit from postdoctoral research training in preparation for later faculty appointments (therefore, applicants may not have faculty appointments). There are no citizenship requirements for this program.
- **Early Career Patient-Oriented Diabetes Research Awards** – Provides crucial support to investigators who plan to pursue a career in diabetes-related clinical investigation. These prestigious awards are made in the later stages of training and include the ability for recipients to transition to independent faculty or research appointments. The award has a five-year term. || **Amount:** $150,000 per year for five years. || **Eligibility:** Applicants should have an MD or MD/PhD, hold an appointment or joint appointment in a subspecialty of clinical medicine, and conduct human clinical research. In exceptional circumstances, non-MD candidates will be considered if their work is likely to contribute significantly to a clinical outcome. The candidate must hold an appointment or joint appointment in a clinical department. There are no citizenship requirements for this program.
- **Innovative Award** – For innovative research that has the potential to change the current paradigm or conventional wisdom or to lead to a seminal discovery in the field of juvenile diabetes research. Preliminary data is not required in the proposal but the underlying premise, goal, or hypothesis must be plausible and the proposal must be focused with a well defined goal. || **Amount:** $110,000 for one year. || **Eligibility:** Applications may be submitted by domestic and foreign non-profit organizations, public and private, such as universities, colleges, hospitals, laboratories, units of state and local governments, and eligible agencies of the federal government. Applicants must hold an M.D., D.M.D., D.V.M., Ph.D., or equivalent and have a faculty position or equivalent at a college, university, medical school, or other research facility.
- **Postdoctoral Fellowships** – To attract qualified, promising scientists entering their professional career in the diabetes research field. The applicant is required to work with a sponsor who can provide a training environment conducive to beginning a career in type 1 diabetes-relevant research. || **Amount:** $43,240 to $53,440 per year for three years. || **Eligibility:** The fellowships are intended for those in a relatively early stage of their career. Ordinarily, their first degree (PhD, MD, DMD, DVM, or equivalent) will have been received no more than five years before the fellowship. Since this program is targeted to those who would benefit from postdoctoral research training in preparation for later faculty appointments, applicants may not have faculty appointments. There are no citizenship requirements for this program.

Deadline: January 19, 2011

American College of Rheumatology (ACR) Research and Education Foundation (REF) – Ephraim P. Engleman Endowed Resident Research Preceptorship
Description: Introduces residents to the specialty of rheumatology by supporting a full-time research experience. The goal of this program is to attract promising physician scientists to the field of rheumatology.
Deadline: February 1, 2011
Amount: $15,000 for three months.
Eligibility: Residents currently enrolled in an accredited training program in internal medicine, pediatrics (med/peds) are eligible (at any year of their residency). Residents must have identified a research "preceptor" by the time of application. The preceptor supervising the resident must be a faculty member actively engaged in basic or clinical research relevant to rheumatology with a strong current record of peer-reviewed research. Preceptors must be ACR members. All applicants must be U.S. permanent residents or citizens of the U.S., Canada, or Mexico.

NIH Federal Opportunities

NEW NIH FORMATTING REQUIREMENTS ARE NOW IN EFFECT: A new version of the application forms and instructions are available. The new form and instructions must be used to apply for receipt dates on January 25, 2010 and beyond. For more information on how the application is being restructured, please visit http://enhancing-peer-review.nih.gov/restructured_applications.html.

NIH Basic Behavioral and Social Science Opportunity Network (OppNet) Short-term Mentored Career Development Awards in the Basic Behavioral and Social Sciences for Mid-career and Senior Investigators (K18)
Description: Issued by the NIH Basic Behavioral and Social Science Opportunity Network [OppNet] to solicit applications for short-term mentored career development awards in the basic behavioral and social sciences research (b-BSSR) from three months to one year in duration. The program targets established, mid-career and senior investigators, to support their development of research capability in b-BSSR. Two categories of candidates are targeted: (a) biomedical or clinical researchers with little experience in basic behavioral and social sciences research who seek training with a well established b-BSSR investigator in order to explore the introduction of b-BSSR into their research programs; and (b) investigators in the basic or applied behavioral and social sciences who wish to build new components or domains of basic-BSSR into their research programs. The intent of this opportunity is to provide candidates with protected time to achieve a shift in the focus of their research direction in the basic behavioral and social sciences, or to substantially enrich a current b-BSSR research program through the introduction of tools, theories or approaches from another discipline or area of science; it is not intended as a substitute for research project support. OppNet strongly encourages investigators to consult NIH-OBSSR's definitions related to b-BSSR for OppNet-related opportunities.
Deadline: January 24, 2011
Amount: See full announcement.
Eligibility: This award is intended for mid-career and senior investigators holding a research or health professional doctorate who are at the academic rank of Associate Professor or Professor, or the equivalent in nonacademic settings, who have established records of independent research who seek an intense, mentored career development experience which will substantially improve their ability to pursue future research in the basic behavioral and social sciences. Candidates must identify one or more mentors with extensive research experience in an appropriate domain or discipline, who are well-qualified and willing to sponsor the short term research career development experience. It is expected that the proposed career development plan will represent a novel extension of the research of the candidate. Applicants must be U.S. citizens or permanent residents.

Identification of Biomarkers for Early Detection of Environmentally-Induced Mitochondrial Dysfunction (R01)
Description: For developing biomarkers of mitochondrial dysfunction using animal models and other experimental models that can help to identify environmental stressors that inhibit normal mitochondrial function, improve our mechanistic understanding of the effects of mitochondrial toxicants, and develop approaches and candidate markers that will serve as the basis for developing biomarkers of early mitochondrial dysfunction in human population studies linking exposure to disease. Mitochondrial biology

is complex, with different responses to stressors, diet composition, and genetic factors observed in different tissues and at different stages of development. Before early biomarkers of mitochondrial dysfunction can be fully developed for human studies, a number of important issues need to be addressed, including enhancing the understanding of how the more severe effects on mitochondrial function in target tissues relate to milder effects in surrogate tissues, understanding whether alterations in mitochondrial endpoints are adaptive or adverse (transient or persistent) effects, and determining which endpoints signal early effects on mitochondrial function before more severe tissue phenotypes are apparent. Many of these questions can be addressed through development of relevant animal and other experimental models to identify robust markers of mitochondrial dysfunction associated with genetic and environmental factors.
Deadline: February 3, 2011
Amount: Varies – See full announcement.

Pilot and Feasibility Clinical Research Grants in Arthritis and Musculoskeletal and Skin Diseases (R21)
Description: Issued by National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) to encourage exploratory/developmental clinical research related to the prevention or treatment of arthritis and musculoskeletal and skin diseases, conditions, and/or injuries. The Pilot and Feasibility Clinical Research Grants Program is designed to allow initiation of exploratory, short-term clinical studies, so that new ideas may be investigated without stringent requirements for preliminary data. The short-term studies should focus on research questions that are likely to gather critical preliminary data in support of a future, planned clinical trial. They can include testing new or prevention strategies, a new intervention, or unique combinations of therapies. A high priority is the use of such studies to help stimulate the translation of promising research developments from the laboratory into clinical practice.
Deadline: March 1, 2011; July 1, 2011; Nov 1, 2011; March 1, 2012; July 2, 2012; Nov 1, 2012, March 1, 2013; July 1, 2013
Amount: Direct costs are limited to $275,000 over an R21 two-year period, with no more than $200,000 in direct costs allowed in any single year.

Mechanistic Research on Complementary and Alternative Medicine (CAM) Natural Products (R01)
Description: Issued by the National Center for Complementary and Alternative Medicine (NCCAM) in collaboration with the Office of Dietary Supplements (ODS) for proposals to study the potential mechanisms of action of promising CAM natural products. Natural products are widely used by Americans for health purposes. Knowledge about the active components, their molecular and cellular targets, as well as markers of potential beneficial or harmful biological effects are critical pieces of preliminary information needed to insure maximally informative clinical efficacy studies on these products. Research on the development of improved methodology for the isolation and characterization of constituents of natural products and on their determination in the natural matrix will also be supported under this initiative.
Deadline: March 1, 2011; November 1, 2011; March 1, 2012; November 1, 2012
Amount: $300,000 per year for up to five years.

Optimizing Recovery and Preservation of Endogenous Insulin Secretion in Individuals with Prediabetes or Recent Onset of Type 2 Diabetes (U01)
Description: The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) solicits applications for clinical studies to investigate strategies that promote the recovery and maintenance of endogenous insulin secretion among individuals who have prediabetes or are early in the course of type 2 diabetes. Specifically, the aim of this initiative is: (1) To assess whether short, intensive interventions can substantially improve the pattern and magnitude of the endogenous insulin response, the extent to which recovery is possible and to identify the factors associated with recovery and retention of endogenous insulin secretion, and (2) To determine the duration of the effect and whether this will facilitate achieving better glucose control. In addition, studies may seek to identify biomarkers that will simplify assessment of beta cell function and improve prediction of whether a given individual will respond positively to the intervention. Although each investigator will propose and conduct a unique protocol, collaboration will be required among awardees to establish common definitions, measures and procedures to promote comparisons of data across protocols.
Deadline: March 24, 2011
Amount: Up to $500,000 per year for up to five years.

National Eye Institute (NEI) Genomic Research Grant on Integrative Data Analysis for Vision Research (R01)
Description: Encourages the submission of applications proposing integrative and in-depth analyses of existing large-scale genetic and genomic data sets relevant to the NEI mission, as well as the development of novel bioinformatics approaches and innovative computational tools to interpret these data sets. Applicants are particularly encouraged to propose integrative analysis of existing large-scale, high-throughput data sets generated by utilizing advanced genomic technologies and combined analysis of multiple data sets obtained with other high dimensional technologies such as imaging, if feasible. Please note: This opportunity will not support the collection of additional data; only existing data sets may be used.
Deadline: May 18, 2011; May 18, 2012; May 18, 2013
Amount: Up to $250,000 per year for three years.

Women and Sex/Gender Differences in Drug and Alcohol Abuse/Dependence (R01 / R03 / R21)
Description: Issued by the National Institute on Drug Abuse (NIDA) and National Institute on Alcohol Abuse and Alcoholism (NIAAA) is to advance research on male-females differences in drug and alcohol abuse and addiction and on factors specific to women. Both human and animal model studies are sought.
Deadline: Standard dates apply – See full announcement.
Amount: Amounts vary – See full announcements.

Non-NIH Federal Opportunities

Department of Defense (DoD) – Controlling Cellular Machinery: Vaccines
Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals with new ideas about how to discover, design, evolve, assemble and demonstrate the ability to use genetic components, modules and circuits for the development of a highly efficacious nucleic acid based vaccine whose activity can be regulated in vivo by a mammalian host**.**
Deadline: Proposal abstracts: January 5, 2011 / Full proposals: February 16, 2011
Amount: Varies – See full announcement.
Eligibility: Unrestricted.

Centers for Disease Control and Prevention (CDC) – Family History and Diamond Blackfan Anemia (U01)
Description: The goal of this research is to improve our understanding of the association of Diamond Blackfan Anemia (DBA) genotypes with the spectrum of disease and risk for complications observed among DBA patients. This information will allow us to better educate providers, patients and families and will lead to improved treatment of this disorder. The proposed project is has two objectives: (1) to identify index DBA patients and obtain information regarding their course of disease as well as their family history of DBA and DBA-related phenotypes, and (2) to conduct a family-based genetic study in this patient population that allows for more accurate phenotype-genotype correlations, than have been possible to date.
Deadline: Internal: January 7, 2011 / External: March 1, 2011
Amount: $150,000 per year for three years.
Eligibility: *Limited submission* – See below & full announcement. Only one application per institution is allowed. Applicants must provide evidence of ability to conduct genetic analyses described in the research plan. This may be demonstrated through a description of the appropriate capabilities of an investigator's laboratory or a formal agreement with a laboratory capable of completing these analyses. A description of the applicant's experience with similar projects or a formal agreement with a capable laboratory must be included in the application.
Limited Submission: *Please note this opportunity requires internal coordination since an institution may submit only one application. If you intend to apply, complete a limited submission form at http://ozone.ohsu.edu/research/rda/funding/limsubform.php before the internal deadline.*

National Science Foundation (NSF) – Networks and Regulation Grant
Description: The Networks and Regulation Cluster seeks to support creative proposals that offer a comprehensive understanding of the emergent properties of cells, organisms, and (microbial) communities. The Cluster promotes fundamental research addressing questions about how cells integrate environmental signals with their internal genetic and metabolic programs to regulate physiology, development or behavior. The Cluster is interested in supporting research in areas such as the mechanisms of signal transduction, metabolic pathways and networks, synthetic biology, and origin of living systems. Research projects are given high priority if they are likely to lead to quantitative, predictive theories of cellular function through iterative cycles of theory and experiment. Proposals in the areas listed below are particularly encouraged:

- Signaling and metabolic networks;
- The minimal cell, synthetic biology and the origins of life; and
- Environmental interactions and microbial communities.

Deadline: January 12, 2011; July 12, 2011
Amount: See full announcement.
Eligibility: Standard NSF eligibility requirements apply.

National Science Foundation (NSF) – Biomolecular Dynamics, Structure, and Function Grant
Description: This Cluster supports fundamental research in the areas of molecular biophysics and biochemistry. The Cluster gives high priority to the creative projects that address the relationships between structure, function, and dynamics in studies of individual biomolecules and their complexes by an integrated approach of theory, computation, and experimental methods such as NMR, X-ray crystallography, EPR, and optical spectroscopy including single molecule methods. The Cluster encourages research projects that are designed to discover and define general principles of macromolecular structure, dynamics, and mechanisms, as well as projects that will develop cutting-edge technologies in the context of biological questions relevant to the Cluster. The Cluster also encourages multi-disciplinary research at the interface of biology with physics, chemistry, mathematics, computer science, and engineering. Funding priority is given to proposals that identify critical gaps in our understanding, propose imaginative experiments to fill the gaps, and promise high-impact breakthroughs in the following areas:

- Structure and dynamics of biomolecules;
- Biomolecular interactions and mechanisms; and
- Energy transduction: photosynthesis and biological electron transfer.

Deadline: January 12, 2011; July 12, 2011
Amount: See full announcement.
Eligibility: Standard NSF eligibility requirements apply.

National Science Foundation (NSF) – Genetic Mechanisms Grant
Description: The Genetic Mechanisms Cluster supports inventive studies seeking to address fundamental questions such as: How do genes work? How are genes maintained and inherited? How do genes and genomes change? The Cluster welcomes the development and use of innovative in vivo and in vitro approaches, including biochemical, biophysical, computational, genetic, genomic, and metagenomic methods. Research at the interfaces between biology and other disciplines such as physics, chemistry, mathematics, computer science, and engineering is encouraged. Funding priority is given to proposals that identify critical gaps in our understanding, propose imaginative experiments to fill the gaps, and promise high-impact contributions and significant forward movement in the following areas:

- Gene expression and epigenetics;
- Chromosome dynamics, DNA replication, repair, recombination and inheritance; and
- Evolution of genes and genomes.

Deadline: January 12, 2011; July 12, 2011
Amount: See full announcement.
Eligibility: Standard NSF eligibility requirements apply.

National Science Foundation (NSF) – Cellular Processes Grant
Description: The Cellular Processes Cluster encourages the use of innovative approaches and technologies that resolve long-standing questions in cell biology. The Cluster seeks to support imaginative projects that integrate research on processes at the supramolecular and cellular scales. The Cluster recognizes the need for rigorous, quantitative approaches for cell biology and welcomes multidisciplinary research that includes physical, mathematical, and computational approaches. Areas of particular interest include live-cell imaging, single-particle analysis of macromolecular assemblies, architectural organization and dynamics of structures over broad dimensional scales. This Cluster entertains proposals in the following general areas of cell biology:

- Membrane organization and function;
- Organelle biogenesis, maintenance, and trafficking; and
- Cytoskeletal dynamics, cell division and motility.

Deadline: January 12, 2011; July 12, 2011
Amount: See full announcement.
Eligibility: Standard NSF eligibility requirements apply.

United States Department of Agriculture (USDA) Food and Nutrition Service (FNS) – Center of Excellence for Food Safety Research in Child Nutrition Programs
Description: Seeks to establish a Center of Excellence for Food Safety Research in Child Nutrition Programs. A new and holistic research approach is needed to determine how new inititatives (e.g. farm-to-school purchasing, school gardens, etc.) and emerging science effect food safety in these programs. There is a need for multidisciplinary research, both basic and applied, that draws expertise from fields should as foodservice management, food safety, food microbiology, agricultural production (both livestock and plants), education, psychology, sociology, research design, and statistics to examine food safety in school and child care environments. This concept will result in the development of a new field of research in school food safety. FNS envisions that the Center will address current food safety research needs identified by FNS and Center personnel working cooperatively, demonstrate flexibility in addressing these needs, and provide the level of staffing to deliver relevant and timely results.
Deadline: January 14, 2011
Amount: Up to $1.6 million for one year. Once established, the Center would be encouraged to seek funding from other sources, consistent with the mission of the Center.
Eligibility: Competition for the grant is open to institutions of higher education.

Centers for Disease Control and Prevention (CDC) – Maternal Vitamin D Status and Preterm Birth
Description: Solicits applications to improve scientific understanding of the relationship between maternal vitamin D status and preterm birth among racially and ethnically diverse women. Results can inform the development of interventions, which could lead to the prevention of large numbers of preterm births and thereby decrease the nation's infant mortality rate.
Deadline: February 14, 2011
Amount: $150,000 to $225,000 per year for up to three years.
Eligibility: Applicants must have access to a racially and ethnically diverse cohort of pregnant women. See full announcement for specific criteria that needs to be met.

Research Initiation Grants in Engineering Education (RIGEE)
Description: Enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to initiate collaborations with colleagues in the learning and cognitive sciences to address difficult, boundary-spanning problems in how we educate engineers.
Deadline: March 31, 2011; Last Thursday in March annually thereafter.
Amount: Varies – See full announcement.
Eligibility: The RIGEE program is designed to broaden participation of engineering faculty new to engineering education research. At least one co-PI must be a member of an engineering department and not have received engineering education funding through the NSF's Engineering and Education Centers (EEC) in the last three years. Submissions from senior faculty and faculty who have just received tenure and are exploring alternative career paths are especially encouraged. The RIGEE program is not intended to create an additional funding channel for established engineering education researchers; such researchers should apply to the Research in Engineering Education program description found on EEC's web site.