

WAKE FOREST UNIVERSITY

SCHOOL of MEDICINE
THE BOWMAN GRAY CAMPUS

OFFICE OF RESEARCH

<http://www.wfubmc.edu/or>

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PURSUIT

RESEARCH INFORMATION BULLETIN Vol. 17, No. 8, September 2003

NIH LOAN REPAYMENT PROGRAMS NOW ACCEPTING APPLICATIONS

NIH is now accepting applications for the five 2004 Loan Repayment Program (LRPs). LRPs can repay up to \$35,000 a year of qualified educational debt for health professionals pursuing careers in clinical, pediatric, contraception and infertility, or health disparities research. The programs also provide coverage for Federal and State tax liabilities. Applicants must have a doctoral-level degree, devote 50% or more of their time to non-profit or government funded research, and have educational debt equaling at least 20% of their institutional base salary. U.S. citizens, permanent residents, or U.S. nationals may apply. The programs are the Clinical Research LRP, Pediatric Research LRP, Contraception and Infertility Research LRP, Clinical Research for Individuals from Disadvantaged Backgrounds LRP, and Health Disparities Research LRP. All applications for the 2004 awards must be submitted by **December 31, 2003**. Additional information and online applications are available at <http://www.lrp.nih.gov>.



REMINDER: UPCOMING EVENTS

Fall Faculty Meeting

Monday, September 29, 2003 - 5:00 p.m., Babcock Auditorium

Research Awards Day

Tuesday, September 30, 2003 - 2:00 p.m., Nutrition Research Center Conference Rooms

MEDICAL STUDENT RESEARCH DAY/GCRC

Wednesday, October 1, 2003

12:00 Noon

Nutrition Research Center Conference Rooms

Guest Speaker: Hal Dietz, MD, Professor, Department of Pediatrics, Institute of Genetic Medicine, Associate Investigator, Howard Hughes Medical Institute, Johns Hopkins University School of Medicine "The Molecular Basis of Inherited Disorders of Vascular Development and Homeostasis" Medical student poster sessions follows Dr. Dietz's presentation.

CONCERN LINES

ANIMAL CARE & USE -
716-5899
RESEARCH CONDUCT -
716-0338
COMPLIANCE -
1-877-880-7888

**REGULATORY COMMITTEE
DEADLINES**

ANIMAL CARE AND USE COMMITTEE -
OCTOBER 3 AND NOVEMBER 7, 2003

INSTITUTIONAL REVIEW BOARD -
NOON - FRIDAYS

**INTRAMURAL RESEARCH
SUPPORT COMMITTEE
DEADLINES**

*REGULAR AND INTERIM -
NOVEMBER 18, 2003

* Clinical studies or other
research involving humans
are encouraged

INVESTMENTS IN RESEARCH

Current and planned improvements to the research infrastructure and a new collaborative program are moving the research mission forward at the School of Medicine.

Infrastructure

Imaging WFUSM scientists will soon have new MRI and CT scanners to assist them in conducting research that utilizes imaging technologies. A 1.5 tesla MRI is now in place in the MRI building and going through its testing period. A state-of the art 16 slice CT scanner is also ready to go. In addition, the school is moving ahead to obtain a seven Tesla magnet that will be installed in the basement of the Nutrition Building this winter. These scanners are all dedicated to the institution's research mission and represent significant research opportunities for the faculty.

Transgenic Mouse Injection Facility: A proposal for a new Transgenic Mouse Injection Facility has been approved. The new lab will be equipped with the latest injection technology to create transgenic mice. It will be located in the 6th floor animal facility in the nutrition building. A search for the Director of the facility, who will be responsible for helping faculty create transgenic animals, is underway.

Animal Housing: Plans are underway to resolve the critical need for additional non-human primate housing. Two new housing buildings will be built at the Friedberg Campus. The first will be started as soon as zoning permits can be obtained, and the other is targeted for completion later in the fiscal year. Additionally, the Animal Resource Program has significantly increased the capacity for mice housing by purchasing ventilated cages. Additional animal care personnel will be added in order to care for the increase in the number of animals used in research studies.

Areas of Science: Brain Tumor Center

The Departments of Radiation Oncology and Neurosurgery have come together to form the Brain Tumor Center. This new Center is devoted to clinical, basic, and population research as well as clinical care for brain tumor patients. The Brain Tumor Center draws on numerous institutional strengths and could develop a strong focus on translational research.

UPCOMING INTRAMURAL RESEARCH SUPPORT
COMMITTEE DEADLINES
NOVEMBER 18, 2003
JANUARY 16, 2004
APRIL 16, 2004

DEAR DR. O



Dear Dr. ORD,
The IRB tells me that I use terms in my informed consent that are not in lay language. How does the IRB define lay language?

Signed
Too Technical

Dear Technical,

Lay language can broadly be defined as language understandable to the people being asked to participate. Federal Regulations for the Protection of Human Subjects requires that the information given to the subject or the representative shall be in language understandable to the subject or the representative [45CFR46.116]. The IRB usually considers a 6th to 8th grade reading level as lay language.

OHRP (Office for Human Research Protections) issues Determination Letters which detail the findings of their investigations. These letters provide numerous examples where OHRP has found that informed consent documents included complex language that would not be understandable to all subjects. Examples of such language cited by OHRP includes words such as "vascular, untoward, contraindicated, auspices, pharmacological, adverse, alleviating, persist, emesis, anorexia, myalgias, arthralgias, transient intolerance, abdomen, pelvis, vascular, vanishingly, auspices, pharmacological, and evoke."

When writing an informed consent document, investigators should use tools such as the Readability Statistics available in most word processing programs. Investigators should also define terms that are not likely to be understood by most individuals when they are first used.

Questions for Dr. OR should be submitted in writing to Amy Comer, Office of Research, or by e-mail: acomer@wfubmc.edu

SEEKING POSITION

CERTIFIED CLINICAL RESEARCH COORDINATOR WITH 6+ YEARS OF TRIAL EXPERIENCE IN BOTH DEVICE AND MEDICATION TRIALS, SEEKS CLINICAL RESEARCH COORDINATOR POSITION. EXPERIENCE INCLUDE TRIALS IN SCHIZOPHRENIA, ADHD, DEPRESSION, SAD, AND PSYCHOSIS WITH DEMENTIA. CONTACT LAURA A. WOLLENWEBER 336-940-2252.

UPCOMING RESEARCH ADMINISTRATORS MEETINGS

OCTOBER 9, 2003 – TIME/EFFORT REPORTING AND CASE STUDY

NOVEMBER 13, 2003 – INDUSTRY RELATIONS UPDATE

DECEMBER 11, 2003 – UPDATE FROM GRANTS MANAGEMENT

ALL MEETINGS ARE HELD AT 10:00 AM. IN THE NUTRITIONAL RESEARCH CENTER CONFERENCE ROOM #3. PLEASE EMAIL AMY COMER (ACOMER@WFUBMC.EDU) IF YOU WOULD LIKE TO BE ADDED TO THIS EMAIL GROUP.

FY2004 LABOR-HHS-EDUCATION BILL PASSED

On September 10th, the Senate passed the FY 2004 Labor-HHS-Education bill (H.R. 2660) by a vote of 94 to 0, ending seven days of partisan, and at times bitter, debate over overtime pay and spending for education and health. Final passage occurred after the Senate rejected an effort to add an additional \$1.5 billion to the NIH budget. The Senate defeated a motion to waive a budget point of order against an amendment offered by Senators Arlen Specter (R-Pa.), Tom Harkin (D-Iowa) and Dianne Feinstein (D-Calif.). The 52 to 43 vote on the motion fell 8 votes short of the 60 needed to waive the point of order. The amendment, which would have declared the additional \$1.5 billion as emergency spending not subject to the subcommittee's spending limit, would have provided NIH a total increase of \$2.5 billion (9.2 percent) over FY 2003. As passed by the Senate, the bill includes \$27.982 billion for NIH, a \$1 billion (3.7 percent) increase.



Wake Forest University Baptist

MEDICAL CENTER

Women's Health Center of Excellence

Women's Health Educational and Research Opportunities for Clinicians and Scientists

*For upcoming conferences and lectures, visit
our calendar website at
www.wfubmc.edu/women*

9TH ANNUAL GRAYLYN CONFERENCE: WOMEN'S COGNITIVE HEALTH OCTOBER 29-31

Don't miss the ninth meeting in our annual series of Graylyn Conferences, to be held October 29-31 at the Graylyn International Conference Center. This year, because of important data from the Women's Health Initiative and other ongoing clinical trials, an entire day of the conference is devoted to hormone therapy and cognition. The conference also features sessions on new treatment and prevention strategies for dementia, advances in diagnostic criteria, and a panel discussion with nationally recognized experts on women's health and chronic diseases. Our keynote speaker is Dr. Bernadine Healy, columnist for *US News and World Report* and former Director of the NIH. Our poster session features cash awards for the best student and junior faculty research! For more information and to register, visit the Women's Center web site at www.wfubmc.edu/women.

Note: Deadline for posters has been extended until October 3! Register promptly for the conference and save \$50 (late fee of \$50 charged after 10/15).

SPECIAL PRE-GRAYLYN PANEL ON PROFESSIONAL CHALLENGES IN BIOMEDICAL RESEARCH CA- REERS: OCTOBER 29, 4:30-6:30 P.M., KITTY HAWK ROOM, PIEDMONT PLAZA I

Join our distinguished guests Bernadine Healy, MD (former NIH Director) and Elizabeth Barrett-Connor, PhD (noted epidemiologic researcher) as they accompany our own William Applegate, Dean and Sally Shumaker, Associate Dean for Faculty Services in a panel discussion on professional challenges in biomedical research careers, sponsored by the Women's Health Center of Excellence. Hear how our panelists have met these challenges, and bring your questions about how best to meet your own challenges. The panel is free and refreshments will be served. For more information, call Natalie Barrett at 3-4220.

OUTREACH NOTEBOOK NOW AVAILABLE

The U.S. Department of Health and Human Services has now released its "Outreach Notebook for the Inclusion, Recruitment and Retention of Women and Minority Subjects in Clinical Research". This document complements the updated NIH "Guidelines on the Inclusion of Women and Minorities as Subjects in Clinical Research". The PDF version of the 162-page Notebook is available online at www4.od.nih.gov/orwh/outreach.pdf.

REMINDER:

Next Research Workshop: "How to Get Your Paper Published,"
Nov. 21, 1-4 p.m. Registration fee is \$40. Contact:
byoungda@wfubmc.edu

WOMENS HEALTH COLUMN CONTINUED.....

OTHER UPCOMING MEETINGS OF INTEREST

October 9-10, 2003

27th Annual Frank R. Lock Obstetrics and Gynecology Symposium
- Hawthorne Inn and Conference Center

Web site: www.wfubmc.edu/education/cme, or call 716-4450.

October 23, 2003, 1-3 p.m.

Teleconference on "Alcohol: A Woman's Issue" from the National Institutes of Health

Web site: www.videocast.nih.gov. For more details, call 301-402-1770.

October 24, 2003

10th Interdisciplinary Women's Health Research Symposium

"Sex and Rx: A Symposium on Women and Medications"

Baltimore Marriott Inner Harbor Hotel

Sponsored by: Women's Health Research Group, University of Maryland

Details at: www.medschool.umaryland.edu/womenshealth/whrg/medconf.html

October 23-25, 2003

"The ABCs of Improving Maternal and Child Health"

Bethesda Marriott, Bethesda, MD

Annual Conference of the National Perinatal Association Association website:

www.nationalperinatal.org

VIGILANCE:

UPDATES FROM WFUSM ENVIRONMENTAL HEALTH AND SAFETY

LABORATORY SECURITY PLAN

The Biosafety Committee, in conjunction with the Chemical Safety and the General Radiation Safety Committees, has been developing a laboratory security plan. This plan is required to comply with new federal regulations involving the research use of select biological agents and toxins. The plan will address:

- Suspicious activities and incident reporting
- Physical security of buildings
- Cyber security
- Specific laboratory requirements

Fundamental security principles:

Vigilance - Maintain security awareness in all research areas.

Verification - Ensure that individuals present in research areas have a legitimate purpose.

Accountability - Establish internal laboratory controls to ensure the security of hazardous materials and other research resources.

Communication - Report incidents and other matters of concern immediately to the Director, Environmental Health and Safety.

The recommended plan will be submitted to the Dean this month.

CONTROLLER'S CORNER - GRANTS MANAGEMENT

FREQUENTLY ASKED QUESTIONS

Clinical Study Participant Payments

Q - Do I need to keep records of payments to study subjects in research projects?

A - Yes, you should maintain a log that includes (at a minimum) the subject's name, address and social security number, if payment is made from petty cash. If a check is issued for the participation, the study subject must complete a W-9 which can be found on the WFUHS website under the forms: "IMPORTANT TAX DOCUMENT SUBSTITUTE FORM W-9." Ideally you would have one of these if giving out petty cash as well but a log can be substituted in the petty cash situation.

This is a federal regulation under the IRS rules for reporting income. WF will issue a 1099 miscellaneous income form in January to those individuals receiving \$600 or more in combined payments (from cash payments, checks, or gift certificates).

Q - Do I need to keep records if I am only paying \$25 or less?

A - Yes, many subjects participate in several different studies and the IRS requires that we report any income paid over \$600. Your subject may be receiving money from a different department and the combined total may require that we report the income - even if you only paid them \$25.

Q - Do I need to keep records if I am giving out gift certificates?

A - Yes, the IRS considers gift certificates income.

Q - Do I need to keep records if we are providing food or merchandise?

A - No, incentives of property do not fall under reported income under the IRS guidelines as they cannot be converted to cash (easily at least).

Q - Are there special rules for employees participating in studies?

A - Employees may participate in studies and receive compensation as long as they are "off the clock." If an employee is paid cash or a gift certificate, you will need to keep the same information on them as other study subjects (name, social security # and address). The value of this type of payment will be recorded and reported on the employee's W-2 form in January. If an employee is to be paid via a check, it will be issued with their paycheck and taxes will be withheld then.

These regulations keep WFUHS in compliance with the IRS. We must also follow HIPAA regulations, which states that administrative employees (i.e. controller's office, payroll etc) must also protect study subject's private information. We do not report to the government the studies in which a subject participates; we report the cumulative amount paid to the subject. It is important that each department inform study subjects (before they start in a study) of the payments or compensation for their participation, and that the study subject must provide their name, address and social security number to receive the compensation. They may still participate and not receive the payment or compensation if they do not want to provide this information.

UPDATE ON THE PHS 398, 2590 AND 416 FORMS

In response to comments and suggestions from the research community on how NIH can continue to improve the application forms to make them more user-friendly, NIH has made several formatting enhancements to the PHS 398, 2590 and 416 forms. Forms are now more compatible with existing software and Microsoft Word. The Office of Research webpage (<http://www.wfubmc.edu/or>) provides a link to the updated forms. Please access the forms from this site each time prior to preparing an application to ensure that the most current forms are used.

NATIONAL INSTITUTE FOR BIOMEDICAL IMAGING AND BIOENGINEERING (NIBIB)

Update on NIBIB Policies on the K-Series Career Development Awards

This notice provides guidance on the NIBIB policies for the K-series grant mechanism. A primary objective of the NIBIB interdisciplinary training program is to support the career development of clinicians and basic scientists in biomedical imaging and bioengineering. The NIBIB supports a broad spectrum of K awards. The goal is to promote career development by providing opportunities for additional mentored or independent research programs, and to attract individuals trained in the quantitative sciences into research careers focusing on questions relevant to biomedical science and health. The mission of the NIBIB is to improve health by supporting and conducting interdisciplinary research and training in biomedical imaging and bioengineering. This is achieved through supporting the development and translation of emerging technologies that enable fundamental biomedical discoveries and facilitate early disease detection and management. Ultimately, the NIBIB seeks to translate research findings from the laboratory into practical solutions that will benefit the public health. The NIBIB currently accepts applications for the following K awards: K01, K02, K08, K23, K24 and K25. Complete information is available at the NIBIB website <http://www.nibib.nih.gov/training/students.htm>.

NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES

NATIONAL CANCER INSTITUTE

Type 1 Diabetes - Rapid Access to Intervention Development (T1D-RAID)

The NIDDK, in collaboration with the NCI, invites requests for use of the resources of NCI's Rapid Access to Intervention Development (RAID) program to foster development of new therapeutics for type 1 diabetes (T1D-RAID). T1D-RAID is a special mechanism to make available to academic investigators the necessary resources to move novel molecules and concepts from bench to bedside more rapidly and effectively. Services that would be available include: production, bulk supply, GMP manufacturing, formulation and toxicology. T1D-RAID will make available, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program. T1D-RAID is not a grant program. The goal of T1D-RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials, using NCI's contract research mechanism. T1D-RAID will assist investigators who submit successful requests by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. Suitable agents for T1D-RAID will include small molecules, biologics or vaccines for the treatment or prevention of type 1 diabetes and its complications. For information on process, procedure and review criteria of requests for T1D-RAID resources, visit <http://www.niddk.nih.gov/fund/diabetesspecialfunds/T1D-RAID/>.

Receipt dates are **November 1, 2003** and **April 1, 2004**.

Research Funding Opportunities

For all funding information contact Angela Horton, Office of Research, 62382, unless noted otherwise in the funding announcement

INTRAMURAL FUNDING OPPORTUNITIES

Comprehensive Cancer Center of Wake Forest University

Cancer Research Grants for Young Investigators

The CCCWFU is offering cancer research seed monies to basic and clinical young scientists. Instructors and assistant professors without current peer-reviewed funding are eligible. Awards of up to \$20,000 per year will be made, funded by the American Cancer Society Institutional Research Grant. Preference will be given to cancer research focused in nutrition; psychosocial/behavioral problems; socioeconomically disadvantaged populations; and technology transfer from basic to clinical science. Forms and instructions can be obtained from Bobbie Lindsay in the Department of Pathology, 6-5392 or blindsay@wfubmc.edu.

Deadline: October 15, 2003

Collaborative Pilot Grant Announcement - WFUHS and WSSU

The Comprehensive Cancer Center of Wake Forest University (CCCWFU) in conjunction with Winston-Salem State University (WSSU) through its grant entitled "Piedmont Alliance for Cancer Research and Education" (PACRE) is accepting applications for pilot grants. The purpose of the pilot grants is to foster new collaborative pilot projects between WFUSM and WSSU investigators in order to increase extramural funding for investigators from both institutions. Pilot grants are intended to support the collection of pilot data necessary to submit competitive investigator-initiated grant applications to the NIH and other funding agencies. To qualify for funding, a proposal must focus on basic, genetic, clinical, epidemiologic, behavioral, or social science research designed to increase understanding of factors related to cancer. **Pilot grants require at least one investigator from each institution.** One-year awards of up to \$12,500 will be made. Recipients are required to submit progress reports at 6 and 12 months.

Awards will be made using the following criteria:

- Innovation
- Quality of science
- Likelihood that pilot grant will result in extramural funding
- Importance of research goals to cancer-related health disparities
- Training opportunities for junior faculty and/or students

Application instructions, forms and other information are available on the following websites:

WSSU:

<http://www.wssu.edu>

Maya Angelou Center:

<http://www.wfubmc.edu/minorityhealth/>

The deadline for submission is **October 15, 2003**. The PACRE Pilot Project Review Committee will review applications. Final selections will be made by the PACRE Research Advisory Group and Steering Committee. Awards will be made within 3 months of the published deadline. For information about the program or for application information and forms, contact either Dr. Sharon Jackson, 716-3406 or Dr. Velma Watts, 750-2698.

AMERICAN CANCER SOCIETY

Position: Research Grants and Fellowships

Electronic submission is required for all applications. Information can be accessed at <http://www.cancer.org>, click on "Professionals", then "Research Programs and Funding".

Research Scholar Grants in Basic, Preclinical, Clinical and Epidemiology Research - these grants support investigator-initiated research projects. Awards are for up to four years and for up to \$200,000 per year. Independent investigators in the first eight years of an independent research career or faculty appointment are eligible to apply.

Research Scholar Grants in Psychosocial, Behavioral and Cancer Control Research - these grants support investigator-initiated research projects. Awards are for up to five years and for up to \$400,000 per year. Independent investigators at any state of their research careers are eligible to apply. However, senior investigators are strongly encouraged to include as co-investigator a faculty member at an early stage in his/her career.

Research Scholar Grants in Health Services and Health Policy Research - these grants support investigator-initiated research projects. Awards are for up to four years and for up to \$200,000 per year. Independent investigators at any state of their research careers are eligible to apply. However, senior investigators are strongly encouraged to include as co-investigator a faculty member at an early stage in his/her career.

Postdoctoral Fellowships - this award is to support the training of researchers who have just received their doctorate to enable them to qualify for an independent career in cancer research (including basic, preclinical, clinical, psychosocial, behavioral, and epidemiologic research). Awards are made for one to three years with progressive stipends of \$37,000, \$39,000 and \$42,000 per year, plus a \$2,000 per year institutional allowance. The Society annually selects several of the top-ranked fellows to receive special 3-year fellowships with an award amount of \$144,000.

Mentored Research Scholar Grant in Applied and Clinical Research - these grants support mentored research by junior faculty within the first four years of their faculty appointment to become independent investigators in clinical, cancer control, epidemiologic, psychosocial, behavioral, health services, or health policy outcomes research. Awards are for up to five years and for up to \$135,000 per year.

Cancer Control Career Development Awards for Primary Care Physicians - this award is made to support primary care physicians with a rank of instructor to assistant professor who are pursuing an academic career with an emphasis on cancer control. Awards are made for three years with progressive stipends of \$50,000, \$55,000 and \$60,000 per year. The grant also provides up to \$10,000 additional funds per year for support of a mentor.

Clinical Research Professorships - this award is for outstanding mid-career investigators who are making significant contributions to clinical or epidemiologic research including cancer control; clinical trials directed toward new therapeutic approaches; and psychosocial, behavioral, health services, and healthy policy and outcomes research. The award amount of \$80,000 per year is budgeted at the awardee's discretion.

DEADLINE: October 15, 2003

Research Funding Opportunities

For all funding information contact Angela Horton, Office of Research, 62382, unless noted otherwise in the funding announcement

Research Funding Opportunities

For all funding information contact Angela Horton, Office of Research, 62382, unless noted otherwise in the funding announcement

FORD FOUNDATION

POSITION: Research Fellowships for Minorities

DESCRIPTION: Awards will be made for study in research-based Ph.D. or Sc.D. programs that include the following major disciplines and related interdisciplinary fields: Archaeology, Anthropology, Art History, Astronomy, Chemistry, Communications, Computer Science, Earth Sciences, Economics, Engineering, Ethnomusicology, Geography, History, International Relations, Life Sciences, Linguistics, Literature, Language, Mathematics, Performance Study, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, and Urban Planning. Predoctoral Fellowships award a stipend of \$17,000 and a cost-of-education allowance of \$6,000; Postdoctoral Fellowships award a stipend of \$40,000 and an employing institution allowance of \$1,500; Dissertation Fellowships award a stipend of \$21,000. Additional information, including eligibility and application procedures can be found at <http://national-academies.org/fellowships>.

DEADLINES: Predoctoral - November 19, 2003
 Postdoctoral - December 17, 2003
 Dissertation - December 3, 2003

THE LALOR FOUNDATION, INC.

POSITION: Postdoctoral Fellowships

DESCRIPTION: Fellowships are awarded to support basic postdoctoral research in mammalian reproductive biology as related to the regulation of fertility. The purpose of these fellowships are to promote intensive research in the areas indicated and to assist and encourage recent postdoctoral investigators in academic positions to follow research careers in reproductive physiology. The individual nominated should have training and experience of at least equal to the Ph.D. or M.D. level and should not have a faculty appointment. Individuals who have held the doctoral degree for less than five years are preferred. Grants may range up to \$35,000 per year for coverage of fellowship stipend, institutional overhead, laboratory and miscellaneous expenses, and as need may indicate, proportionately less for shorter time grants.

DEADLINE: January 15, 2004

FERTILE HOPE

AMERICAN SOCIETY OF CLINICAL ONCOLOGY FOUNDATION

POSITION: Young Investigator Award

DESCRIPTION: These are one year awards of \$35,000 to support research projects of young investigators. The award is specifically aimed at patient-oriented research in oncology and targets clinical researchers who are transitioning from a fellowship program to a faculty appointment. Young investigators are encouraged to apply for grants on the subjects of survivorship and quality of life as they relate to fertility preservation technologies, treatment induced premature ovarian failure, post-treatment infertility and the safety of pregnancy and children after cancer.

DEADLINE: November 12, 2003

NIA, NIAMS, NICHD

POSITION: Aging Musculoskeletal and Skin Extracellular Matrix - PA-03-167

DESCRIPTION: The purpose of this PA is to solicit grant applications for basic research projects to investigate how changes in extracellular matrix with age affect the function of the tissues of the musculoskeletal system and skin. Projects are encouraged that determine how cellular aging processes lead to altered matrix production and maintenance, and how aging-related altered matrix composition and organization affect the function of these tissues. This PA will use the NIH R01 Research Project and R21 Exploratory/Developmental Research Grant award mechanism. Additional information about this PA can be found at <http://grants.nih.gov/grants/guide/pa-files/PA-03-167.html>.

DEADLINES: October 1, 2003, February 1 and June 1, 2004

NINDS, NIMH, NIA

POSITION: Neuroprotective CNS Barriers in Neurological Diseases - PAS-03-165

DESCRIPTION: The goal of this PA with set-aside funds (PAS) is to invite applications for studying the neurobiological and cerebrovascular mechanisms through which the neuroprotective blood-brain and blood-csf barriers function in the healthy and diseased adult, aged and pediatric brain. This PAS encourages studies focused on improving the understanding of the neuroprotective CNS barriers and enhancing the effectiveness of drug and gene delivery strategies for treatment of neurological diseases. Chief among the challenges to be addressed is the need to increase the knowledge about the molecular and cellular biology, cells of origin, gene and protein expression, and the regional differences of brain microvascular endothelial cells and pericytes and their interactions with adjacent brain cells. A large amount of basic research is needed to significantly change how neuroscience research is bidirectionally translated. This PAS is focused on stimulating new concepts in the blood-brain barrier field through the exploratory/developmental grant (R21) and the research project grant (R01) award mechanism. Additional information about this PA can be found at <http://grants.nih.gov/grants/guide/pa-files/PAS-03-165.html>.

DEADLINES: October 1, 2003, February 1 and June 1, 2004

For all funding information contact Angela Horton, Office of Research, 62382, unless noted otherwise in the funding announcement

Research Funding Opportunities

GRANT AND CONTRACT PROPOSAL WATCH

	This Fiscal Year July - August	Last Fiscal Year July - August	% Change
Proposals Submitted	108	121	(10.7)
Dollars Requested	\$53,523,531	\$26,896,270	99

Research Funding Opportunities

For all funding information contact Angela Horton, Office of Research, 62382, unless noted otherwise in the funding announcement

REMINDER

"THREE DAY RULE" FOR APPLICATIONS

Applications must be submitted for review and institutional signature not less than three days prior to the agency deadline. For the upcoming **October 1** and **November 1** deadlines, applications must have Controllers Office review of the budget and be submitted to the Office of Research by **September 25** and **October 28**, respectively.

KEY FOR DEPARTMENT OF HEALTH AND HUMAN SERVICES

(DHHS) INSTITUTES - (<http://www.nih.gov/icd/>)

AHRQ - Agency for Healthcare Research and Quality

NCCAM - National Center for Complementary and Alternative Medicine

NCI - National Cancer Institute

NCNR - National Center of Nursing Research

NCRR - National Center for Research Resources

NEI - National Eye Institute

NHLBI - National Heart, Lung and Blood Institute

NHGRI - National Human Genome Research Institute

NIAAA - National Institute on Alcohol Abuse and Alcoholism

NIA - National Institute on Aging

NIAID - National Institute of Allergy and Infectious Diseases

NIAMS - National Institute of Arthritis and Musculoskeletal and Skin Diseases

NIBIB - National Institute of Biomedical Imaging and Bioengineering

NICHD - National Institute of Child Health and Human Development

NIDA - National Institute on Drug Abuse

NIDCD - National Institute on Deafness and Other Communication Disorders

NIDDK - National Institute of Diabetes and Digestive and Kidney Diseases

NIDCR - National Institute of Dental and Craniofacial Research

NIEHS - National Institute of Environmental Health Sciences

NIGMS - National Institute of General Medical Sciences

NIMH - National Institute of Mental Health

NINDS - National Institute of Neurological Disorders and Stroke

NLM - National Library of Medicine

ORWH - Office of Research on Women's Health

PURSUIT STAFF

SHEILA VRANA, PH.D.

DAVID LYONS, PH.D.

AMY COMER

