SPHHP Research Activities Newsletter

University at Buffalo

August 2017

In the News

Congratulations to the Following Awardees!

Jo Freudenheim, UB Distinguished Professor and Chair of Epidemiology and Environmental Health (EEH), is PI on a new T32 award from the National Cancer Institute/NIH for the project entitled, *Interdisciplinary Training in Cancer Epidemiology at UB*. The program provides training and hands-on opportunities for pre-doctoral and post-doctoral fellows to develop research skills in epidemiology, as well as other related disciplines. **Kirsten Moysich**, Research Professor, EEH and Distinguished Professor of Oncology, Roswell Park Cancer Institute is also a PI on this multiple PI Award.

Blair Johnson, Assistant Professor of Exercise and Nutrition Sciences, is PI on two new awards. The first award is from the U.S. Navy Office of Naval Research/DOD for the project entitled, *Autonomic Activity and Water Immersion.* The research seeks to determine whether changes in sympathetic nerve activity occur in divers during both thermoneutral and cold water immersion conditions while 1) breathing 100% oxygen air as compared to air breathing; and 2) breathing hypercapnic air compared to air breathing.

The second award is from the National Center for Advancing Translational Sciences/CTSA Pilot Program for the project entitled, *Blood Pressure Control in Concussions*. The project will study the control of blood pressure in concussed patients by using microneurography to assess sympathetic activity during acute periods of hypo- and hypertension. **Jeffrey C. Miecznikowski**, PhD, Associate Professor, Department of Biostatistics, is a Co-Investigator.

Katarzyna Kordas, Associate Professor of Epidemiology and Environmental Health, is PI on a new award from Cardiff University, United Kingdom, entitled, *Neural Correlates of APOE Genotypes in Young Adults*. Studies show that the number of older people living with dementia is increasing. Key to reducing the burden of poorer cognitive health in later life is the identification of high-risk individuals prior to the onset of cognitive decline. The goal of this study is to understand if APOE ε4 carriers show selective brain and behavioral differences (compared to non-carriers) in early adulthood that mirror the early cognitive and anatomical markers of detrimental aging, and whether lifestyle factors may moderate these early declines.

Jeanne Langan, Assistant Professor of Rehabilitation Science, is PI on a new award from the Eunice Kennedy Shriver National Institute of Child Health & Human Development/NIH, for the project entitled, *A Functional Upper Limb Training and Assessment Tool to Enhance Efficacy and Scalability of Rehabilitation in Ecological Environments.* Interventions promoting optimum motor performance across the lifespan are a priority after a neurological insult such as stroke. The proposed research incorporates smart devices and 3D printing to create patient-centered rehabilitation devices that are scalable. This innovative blend of technology and principles of neuroplasticity can advance standards of practice in healthcare.

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Elizabeth Mietlicki-Baase, Assistant Professor of Exercise and Nutrition Sciences, is PI on a continuation award from the National Institute of Diabetes and Digestive and Kidney Diseases/NIH for the project entitled, *Impact of Sex and Diet on Mesolimbic Amylin Signaling for Energy Balance Control*. Dr. Mietlicki-Baase's research will continue to evaluate the mechanisms by which the hormone amylin acts at a recently identified brain site-of-action, the ventral tegmental area, to suppress food intake. Furthering our knowledge of the central nervous system functions of amylin may provide new information about mechanisms controlling energy balance, thereby offering insight into potential targets for the pharmacological treatment of obesity.

Lina Mu, Associate Professor of Epidemiology and Environmental Health, is PI on a continuation award from the National Institute of Environmental Health Sciences/NIH for the project entitled, *Metabolomics Profiling of Biological Responses to Changes in Air Pollution Levels.* The research will continue to evaluate metabolic changes in response to air pollution exposure and provide insight on potential mechanisms through which air pollution may Increase the risk of various diseases. **Matthew Bonner**, Associate Professor of Epidemiology and Environmental Health and **Rachel Hageman Blair**, Assistant Professor of Biostatistics, are Co-Investigators.

Heather Orom, Associate Professor of Community Health and Health Behavior, is PI on a continuation award from the National Cancer Institute/NIH for the project entitled, *"Don't Know" Responses to Risk Perception Questions: Identifying Mechanisms and Solutions*. The study will continue to explore reasons why a significant proportion of people do not know their risk for two highly preventable diseases, Type 2 diabetes and colorectal cancer, despite the proliferation of risk-based prevention messages about these diseases. **Marc Kiviniemi**, Associate Professor of Community Health and Health Behavior, is a Co-Investigator.

Sarahmona Przybyla, Assistant Professor, Community Health & Health Behavior, serves as both PI or Co-PI on three new awards. Dr. Przybyla is Co-PI on an award from the University of Rochester Center for AIDS Research/National Institute of Allergy & Infectious Disease/NIH, for the project entitled, *Assessment of Knowledge and Attitudes toward Pre-Exposure Prophylaxis (PrEP) among Future Health Professionals*. The research team will conduct a web-based survey of stu dents training in medical, nursing, and pharmacy programs to examine knowledge and attitudes towards PrEP among future health professionals.

Also from the University of Rochester, Dr. Przybyla is Co-PI on an award for the project entitled, *Tenofovir in Hair Assay Development.* The study seeks to develop a liquid chromatography tandem mass spectrometry-based assay that quantifies tenofovir concentrations in hair samples.

Dr. Przybyla is PI on a third award from the New York State Department of Health AIDS Institute for the project entitled, *Using a Social Ecological Model to Facilitate Adoption of Pre-Exposure Prophylaxis (PrEP): Understanding Patient and Provider Perspectives.* The study team will conduct interviews with four subpopulations: 1) patients on PrEP; 2) those who are at high risk for HIV acquisition but do not take PrEP; 3) health care providers who prescribe PrEP; and, providers who do not prescribe PrEP.

Jennifer Temple, an Associate Professor within the Department of Exercise and Nutrition Sciences and **Lucia Leone**, an Assistant Professor within the Department of Community Health and Health Behavior are Co-Investigators on a continuation award from National Institute of Child Health & Human Development/NIH entitled, *Can Reinforcing Alternatives to Food Prevent Weight Gain in Children?* Leonard Epstein, Distinguished Professor Pediatrics; Epidemiology and Environmental Health is the PI. The goal of this project is to study individual differences in relative reinforcing value of food and alternatives to food in the home environment over a two year period in 230 6-9 year-old children. This will provide the first test of the potential protective effect of strong alternative reinforcers to food for risk of weight gain in children.

John Violanti, Research Professor of Epidemiology and Environmental Health, is PI on a continuation award from the National Institute for Occupational Safety and Health/CDC for the project entitled, *Stressors and Cardio-Metabolic Disease in Police: A 12-Year Longitudinal Study*. The research will continue to examine the impact of occupational stressors on early signs of cardiovascular and metabolic diseases in police officers to further knowledge on this topic and enhance prevention efforts in the field. **Jean Wactawski-Wende**, Dean of SPHHP and SUNY Distinguished Professor of Epidemiology and Environmental Health is a Co-Investigator.

Jean Wactawski-Wende, Dean of the SPHHP and SUNY Distinguished Professor of Epidemiology and Environmental Health is PI on a continuation award from the National Institute of Dental and Craniofacial Research/NIH entitled, *Oral Microbiome and Periodontitis: A Prospective Study in Postmenopausal Women.* Periodontal Disease is common in older adults. This study will further characterize oral bacteria that are associated with periodontal disease severity and progression in older women. In the future, this information could inform strategies for prevention and treatment of periodontal disease. **Michael LaMonte** and **Amy Millen** are Co-Investigators.

Jerome Yates, Clinical Professor of Epidemiology and Environmental Health, is PI on an award from the P2 Collaborative of Western New York Inc. entitled, *Population Health Improvement Program.* The P2 Collaborative is coordinating efforts to improve health in the eight counties of Western New York. Dr. Yates will participate in the committee evaluating the available public health data and the Steering Committee for the organization. He also will work to keep stakeholders aware of the relevant activities in UB's Jacob School of Medicine and Biomedical Sciences and School of Public Health and Health Professions.

Grant Clinic

NIH Extramural Repayment Loan Programs (LRPs) Application Period will be Open 9/1/17-11/15/17
The LRPs are a set of programs established by Congress and designed to recruit and retain highly qualified health professionals into biomedical or biobehavioral research careers. Qualified health professionals who contractually agree to engage in NIH mission-relevant research for at least two years initially, and who agree to engage in such research for an average of at least 20 hours per week based on a 40-hour work week, are invited to apply for the award which will repay up to $35,000 annually of a researcher's qualified educational debt. Research funding from NIH is not required to participate in the Extramural LRPs. Additional information about each LRP is provided at NIH Repayment Loan Program

NOT-OD-17-087
Guidance on Salary Limitation for Grants and Cooperative Agreements
This notice serves as final guidance for FY 2017 by removing the term "interim" from the title of the guidance. The Executive Level II salary was previously set at $185,100, and increased to $187,000 effective January 8, 2017. For awards issued in those years that were restricted to Executive Level II (see Salary Cap Summary, FY 1990 – FY 2016), including competing awards already issued in FY2017, if adequate funds are available in active awards, and if the salary cap increase is consistent with the institutional base salary, grantees may rebudget to accommodate the current Executive Level II salary level. However, no additional funds will be provided to these grant awards.

NOT-RM-17-034
Notice of Correction of the Anticipated Announcement and Award Dates in RFA-RM-17-006 NIH Director's New Innovator Award Program (DP2)
The purpose of this notice is to correct the Anticipated Announcement and Award Dates.
***Revised language*:**
PDs/PIs will be notified of their status in **March 2018**. Awardees will be notified by August 2018. Awards will begin in September 2018. After the peer review of the application is completed, the PD/PI will be able to access his or her Summary Statement (written critique) via the eRA Commons. Refer to Part 1 for dates for peer review, advisory council review, and earliest start date. All other aspects of the FOA remain unchanged.

NOT-OD-17-089 (SBIR)

Solicitation of the Small Business Innovation Research (SBIR) Research Contract Proposals

NIH announces the issuance of the SBIR Contract Proposals (PHS 2018-1). The SBIR program provides support for research and development (R&D) of new or improved technologies and methodologies that have the potential to succeed as commercial products. Applications must be submitted through the electronic Contract Proposal Submission (eCPS) website at https://ecps.nih.gov/. Please refer to the NIH notice for the list of research topics contained in the PHS 2018-1 Solicitation.

Notice of Intent to Publish a Funding Opportunity Announcement

NOT-HL-17-520 *Heart, Lung, and Blood Co-morbiditieS Implementation Models in People Living with HIV (HLB SIMPLe) (U01)***;** Winter 2017 release expected.

NOT-HL-17-521 *Heart, Lung, and Blood Co-morbiditieS Implementation Models in People Living with HIV Data Coordinating Center (HLB SIMPLe DCC) (U24)*; Winter 2017 release expected.

NOT-HL-17-527 *Programs to Increase Diversity among Individuals Engaged in Health Related Research (PRIDE) Summer Institutes (R25)*: December 2017 release expected.

NOT-HL-17-528 *Programs to Increase Diversity among Individuals Engaged in Health Related Research (PRIDE) Coordinating Center (U24)*: December 2017 release expected.

NIH Funding Opportunities: Limited Submissions

UB prior approval is required for the following funding opportunities. If you are interested in applying to any of the **limited submissions** listed below, please provide the OVPRED with notification through the Limited Submissions Mailbox at least 60 days prior to the sponsor's submission deadline before proceeding with an application. The limited submission program is managed by Dr. Kenneth Tramposch on behalf of the OVPRED. He may be contacted at kmt1@buffalo.edu or by phone at 645-3321 for any questions or advice about the limited submission process.

PAR-17-051 (R25)

Post Baccalaureate Research Education Program (PREP)

This FOA will support creative educational activities with a primary focus on Research Experiences *and Courses for Skills Development.* Applications are encouraged from research-intensive institutions that propose to equip recent baccalaureate science graduates from diverse backgrounds underrepresented in biomedical sciences with the necessary knowledge and skills to pursue Ph.D. degrees in these fields. The program provides support for extensive research experiences and well-designed courses for skills development aimed at preparing individuals from underrepresented backgrounds to complete doctoral degrees. *Only one application per institution is allowed.*

Application Due Dates: January 24, 2018; and January 24, 2019

PAR-17-053 (R25)

Research Education: Initiative for Maximizing Student Development (IMSD) Program

The over-arching goal of this NIGMS R25 program is to support educational activities that enhance the diversity of the biomedical workforce. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on research experiences and courses for skills development*. Only one application per institution is allowed.*

Application Due Dates: January 26, 2018; January 28, 2019

PAR-17-159 (R01)

Data Science Research: Personal Health Libraries for Consumers and Patients

The National Library of Medicine seeks applications for novel informatics and data science approaches that can help individuals gather, manage and use data and information about their personal health. A goal of this program is to advance research and application by patients and the research community through broadly sharing the results via publication, and through open source mechanisms for data or resource sharing. *Only one application per institution is allowed*.

Application Due Dates: March 19, 2018

RFA-ES-17-003 (P30)

Environmental Health Sciences Core Centers (EHS CC)

This FOA invites grant applications for EHS CC. The broad overall goal of an EHS CC is to identify and capitalize on emerging issues that advance improving the understanding of the relationships among environmental exposures, human biology, and disease. The EHS CC supports community engagement and translational research as key approaches to improving public health. The Core Centers provide critical research infrastructure, shared facilities, services and /or resources, to groups of investigators conducting environmental health sciences research. *Only one application per institution is allowed*.

Application Due Dates: April 17, 2018, April 17, 2019

PAR-17-068 (T34)

Maximizing Access to Research Careers Undergraduate – Student Training in Academic Research

The Program is designed to provide structured training programs to prepare high-achieving, underrepresented students for doctoral programs in biomedical research fields. Programmatic activities should include authentic research experiences, academic enhancements, skills development, and mentoring. *Only one application per institution is allowed*.

Application Due Dates: May 24, 2018

PAR-16-361 (R25)

Research Initiative for Scientific Enhancement (RISE)

The over-arching goal of this program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce. This FOA will support creative educational activities with a primary focus on research experiences and **courses for skills development**. Applicants should directly address how the set of activities will enhance the diversity of the biomedical, behavioral and clinical research workforce by discussing 1) the rationale underlying the balance of effort and resources dedicated to each activity; 2) how the three activities integrate; and 3) objective indicators that can measure the effectiveness of the program. *Only one application per institution is allowed*.

NIH Funding Opportunities: Requests for Applications (RFA)

October Due Dates

RFA-AG-18-009 (R01)

Novel Cell Non-autonomous Mechanisms of Aging

The goal of this FOA is to support applications that will lead to in-depth understanding of the mechanisms that produce cell non-autonomous aging signals: what they are, how they are generated from cell autonomous aging, how they are released from cells, how they are transported or communicated to other cells, and how they elicit aging upon reaching their target cells. Research supported by this FOA should lead to new insights and better understanding of the importance of cell non-autonomous mechanisms in aging at a tissue, system, or organismal level.

Application Due Date: October 3, 2017

RFA-DK-16-005 (R01)

Identification of Mechanisms Mediating the Effects of Sleep on Diabetes-Related Metabolism in Humans

This FOA invites applications which propose in-depth metabolic phenotyping in carefully selected clinical populations to determine how changes in sleep (improvements or disruptions) influence diabetes-related metabolism. Applications should systematically test a physiological model with the goal of elucidating possible mediators of the reported effects of sleep on glucose metabolism. Applications that propose therapeutic interventions to improve sleep and determine the consequences on diabetes-related metabolism must have preliminary data demonstrating that the proposed method for improving sleep is actually efficacious.

Application Due Date: October 11, 2017

RFA-ES-17-006 (U01)

Expanding Genome Integrity Assays to Population Studies (U01)

This FOA will support development and pilot testing of assays, such as DNA repair capacity or mutation detection, that will facilitate the wider use of genome integrity investigation in epidemiological and population studies.

Application Due Date: October 13, 2017

RFA-EY-17-002 (R21)

BRAIN Initiative: New Concepts and Early-Stage Research for Large-Scale Recording and Modulation in the Nervous System

This FOA seeks applications for unique and innovative technologies that are in an even earlier stage of development than that sought in other FOAs, including new and untested ideas that are in the initial stages of conceptualization. In addition to experimental approaches, the support provided under this FOA might enable calculations, simulations, computational models, or other mathematical techniques for demonstrating that the signal sources and/or measurement technologies are theoretically capable of meeting the demands of large-scale recording or manipulation of circuit activity in humans or in animal models.

Application Due Date: October 26, 2017

November Due Dates

RFA-AG-18-012 (U2C)

Mobile Monitoring of Cognitive Change

This FOA invites applications to design and implement research infrastructure that will enable the monitoring of cognitive abilities and age, state, context, or health condition-related changes in cognitive abilities on mobile devices. This effort will include the development (or support for development) of apps on the Android and iOS platforms, the validation of tests and items to be used on the two leading smartphone platforms in age groups ranging from 20 to 85, and the norming of successfully validated measures to nationally representative U.S. population samples that will also receive gold standard measures, including the NIH Toolbox® for Assessment of Behavioral and Neurological Function.

Application Due Date: November 2, 2017

RFA-MH-18-410 (R01)

Addressing Suicide Research Gaps: Understanding Mortality Outcomes

This FOA seeks to support efforts focused on linking pertinent data from healthcare system records (e.g., suicide attempt events) to mortality data so that a more accurate understanding of the risk factors for, and the burden of, suicide among those seen in structured healthcare settings can be discerned. Specifically, data are needed on the type, severity, and timing of suicide predictors in the U.S.

Application Due Date: November 2, 2017

(RFA-AG-18-016)

Tailoring Cardiac Rehabilitation to Enhance Participation of Older Adults (R01)

The overall goal of this funding announcement is to elicit applications for novel strategies to enhance referral, participation, and adherence in cardiac rehabilitation (CR) of older and vulnerable patients who are eligible for CR under current Medicare eligibility criteria. Specifically, NIA seeks clinical trials that address one or more specific age-related factors including patient-related issues, CR program goals and components, and CR program setting-related aspects. These three age-related issues represent distinct, but potentially interrelated, areas that are impacted by advancing age and are not currently addressed in traditional CR programs. Determination of the specific aspects of CR programs that may be better suited to medically complex and vulnerable older adults, such as eligibility, patient-centered goals and outcomes, and novel components and delivery systems may ultimately improve referral, enrollment, completion and overall benefit of this Medicare-supported resource. Successful modified programs should strive to improve function, independence and quality of life while reducing disability, future CV events, readmissions, morbidity and mortality.

Application Due Date: November 9, 2017

RFA-AG-18-017 (R01)

Central Neural Mechanisms of Age-Related Hearing Loss

The purpose of this FOA is to encourage basic or clinical research applications that investigate central neural mechanisms of age-related hearing loss in older adults and/or in relevant animal models. This FOA is driven by the need to address a major gap in our understanding of the central pathways and neural networks that are involved in hearing loss and how these may be altered in the context of the aging brain, as well as how natural aging influences central auditory plasticity.

Application Due Date: November 8, 2017

RFA-HD-18-009 (UG1)

Re-Competition of Global Network for Women's and Children's Health Research

This FOA invites applications from U.S. institutions to support Research Units (RUs) within the Global Network for Women's and Children's Health Research at NICHD. RUs will consist of U.S.-based research centers applying in partnership with research centers in low income countries as defined by the World Bank. The RUs within the Global Network will participate in addressing the major causes of maternal, neonatal, infant, and early childhood morbidity and mortality through the conduct of clinical research. The grantees will become part of a cooperative network to conduct multi-enter observational studies and randomized clinical trials evaluating disease process, health and wellness outcomes, and results from interventions in resource-poor settings.

Application Due Date: November 27, 2017

(RFA-HD-18-013)

Population Dynamics Centers Research Infrastructure Program FY 2018 (P2C)

Eunice Kennedy Shriver National Institute of Child Health and Human Development

The goal of this funding opportunity announcement (FOA) is to advance the field of population dynamics research by increasing research impact, innovation, and productivity; developing junior scientists; and maximizing the efficiency of research support. NOTE: Only one application per institution is allowed.

Application Due Date: November 27, 2017

December Due Dates

RFA-DA-18-012 (R43/R44); RFA-DA-18-013 (R41/R42)

Development of a Device to Objectively Measure Pain

The purpose of these FOAs is to develop a technology/device that objectivity indicates the presence and level of pain.

Application Due Date: December 5, 2017

RFA-HL-18-004 (R01)

Integrated Approaches to HIV-Related Heart, Lung, Blood, and Sleep (HLBS) Comorbidities

This FOA invites applications that propose "systems biology" approaches using clinical samples from HIV-infected patients to elucidate the biological perturbations associated with HIV-related heart, lung, blood, and sleep (HLBS) comorbidities. The ultimate goal is to better understand disease progression, which may help identify new therapeutic targets that pre-empt the onset of HLB diseases and sleep disorders in the HIV population.

Application Due Date: December 15, 2017

January Due Dates

(RFA-HL-18-024)

Cardiovascular and Pulmonary Research on E-Cigarettes (R01)

National Heart, Lung, and Blood Institute; National Cancer Institute

The purpose of this funding opportunity announcement (FOA) is to stimulate research on cardiovascular and pulmonary physiologic and health effects of electronic cigarette (e-cigarette) exposure. This FOA invites applications addressing the effects of e-cigarettes on the cardiovascular and pulmonary systems, alone or in combination. Studies involving clinical populations, animal models and/or cell preparations would all be considered responsive. Research may examine the effects of the whole e-cigarette aerosol or of individual components or constituents. Research may also examine where aerosols, components, or constituents deposit in the airways and resulting heart and/or lung consequences.

Application Due Date: January 16, 2018

Multiple Due Dates

RFA-OD-17-013 (R01); RFA-OD-17-014 (R21)

Tobacco Regulatory Science

The purpose of these FOAs is to invite applications to support biomedical and behavioral research that will provide scientific data to inform regulation of tobacco products to protect public health. Research Projects must address the research priorities related to the regulatory authority of the Food and Drug Administration Center for Tobacco Products CTP). Research results from this FOA are expected to generate findings and data that are directly relevant in informing the FDA's regulation of the manufacture, distribution, and marketing of tobacco products to protect public health.

Application Due Dates: September 18, 2017, February 13, 2018, July 17, 2018, February 13, 2019

RFA-OD-17-012 (R03)
Tobacco Regulatory Science Small Grant Program for New Investigators
The purpose of this FOA is to invite applications to support biomedical and behavioral research that will provide scientific data to inform regulation of tobacco products to protect public health. Only New Investigators who fit the criteria are eligible to apply.
Application Due Dates: September 18, 2017, February 13, 2018, July 17, 2018, February 13, 2019

RFA-ES-16-004 (R24)
Maintain and Enrich Resource Infrastructure for Existing Environmental Epidemiology Cohorts
This FOA solicits grant applications to provide support for the maintenance of existing environmental epidemiology cohorts and their associated biorepositories; for the collection or development of additional measures; to facilitate follow-up of study participants especially during key windows of susceptibility, and to provide a structure to facilitate broader sharing of data and resources with the scientific community. The scope of the application must address a critical research need and strategic interest that aligns with the mission of the NIEHS.
Application Due Dates: October 10, 2017; October 10, 2018

RFA-MH-17-604 (R61/R33) - **Development of Psychosocial Therapeutic and Preventive Interventions for Mental Disorders**
RFA-MH-17-606 (R33) - **Development of Psychosocial Therapeutic and Preventive Interventions for Mental Disorders**
The purpose of these FOAs is to support the efficient pilot testing of novel psychosocial therapeutic and preventive interventions for mental disorders in adults and children, using an experimental therapeutics approach. These FOAs support the development and testing of innovative psychosocial intervention approaches where the target and/or the intervention strategy is novel.
Application Due Dates: October 17, 2017; February 14, 2018; June 15, 2018; October 15, 2018

RFA-MH-17-610 (Collaborative R01)
Clinical Trials to Test the Effectiveness of Treatment, Preventive, and Services Interventions
This FOA supports clinical trials designed to test the therapeutic value of treatment and preventive interventions for which there is already evidence of efficacy, for use in community and practice settings. Applications might include research to evaluate the effectiveness or increase the clinical impact of pharmacologic, somatic, psychosocial (psychotherapeutic, behavioral), device-based, rehabilitative and combination interventions to prevent or treat mental illness.
Application Due Dates: October 17, 2017; February 14, 2018, June 15, 2018, October 15, 2018

RFA-MH-17-612 (R34)
Pilot Effectiveness Trials for Treatment, Preventive and Services Interventions
This FOA encourages pilot research consistent with NIMH's priorities for: 1) effectiveness research on preventive and therapeutic interventions with previously demonstrated efficacy, for use with broader target populations or for use in community practice settings, and 2) research on the development and preliminary testing of innovative services interventions.
Application Due Dates: October 17, 2017; February 14, 2018, June 15, 2018, October 15, 2018

RFA-HL-17-022 (R21)
Maximizing the Scientific Value of the NHLBI Biorepository: Scientific Opportunities for Exploratory Research
This Funding Opportunity Announcement (FOA) will support meritorious exploratory research relevant to the NHLBI mission using the existing biospecimen collections that are stored in the NHLBI Biologic Specimen Repository, thereby maximizing the scientific value of the stored collections and providing researchers with an opportunity to generate preliminary data for subsequent research proposals.
Application Due Dates: October 17, 2017; February 15, 2018; October 17, 2018; February 15, 2019; October 17, 2019

RFA-CA-17-017 (R01); RFA-CA-17-018 (R21)
Research Answers to NCI's Provocative Questions
The purpose of these FOAs are to support research projects designed to solve specific problems and paradoxes in cancer research identified by the National Cancer Institute (NCI) Provocative Questions initiative. The current issuance of the PQ Initiative includes an updated set of 12 PQs, which are listed in the funding announcements. Each research project proposed in response to this FOA must be focused on addressing one particular research problem defined by one specific PQ selected from the list.
Application Due Dates: October 30, 2017; June 28, 2018; October 30, 2018

RFA-DA-18-004 (DP2)
Avenir Award Program for Research on Substance Abuse and HIV/AIDS
The Avenir Award Program for Research on Substance Abuse and HIV/AIDS will support research approaches, both basic and clinical, which have the potential to benefit substance using populations with or at risk for HIV/AIDS by reducing HIV incidence, improving therapies for HIV, reducing the impact of comorbid conditions, and ultimately, eradicating HIV. The nexus with drug abuse should be clearly described.
Application Due Dates: Nov 13, 2017; Nov 13, 2018, Nov 13, 2019

RFA-ES-16-005 (R21)
Mechanism for Time-Sensitive Research Opportunities in Environmental Health Sciences
This FOA is intended to support environmental health research in which an unpredictable event provides a limited window of opportunity to collect human biological samples or environmental exposure data to understand the consequences of natural and man-made disasters or emerging environmental public health threats in the U.S. and abroad. A distinguishing feature of an appropriate study is a shortened timeframe from submission to award. The entire cycle is expected to be within 3-4 months.
Application Due Dates: Multiple due dates, please see FOA

NIH Funding Opportunities: Program Announcements Reviewed in an Institute (PAR)

PAR-17-318 (R33) - **NCCIH Natural Product Phase I-IIa Clinical Trial Award**
PAR-17-319 (R61/R33) - **NCCIH Natural Product Phase I-IIa Clinical Trial Phased Innovation Award**
These FOAs invite applications for investigator-initiated early phase clinical trials of natural products (i.e., botanicals, dietary supplements, and probiotics), which have a strong scientific premise to justify further clinical testing. Trials must be designed so that results, whether positive or negative, will provide information of high scientific utility and will support decisions about further development or testing of the natural product. Applicants are encouraged to contact the appropriate NCCIH Scientific/Research contact for the area of science for which they are planning to develop an application prior to submitting to this FOA.
Application Due Date: October 24, 2017

PAR-17-321 (R01); PAR-17-320 (R21)
Multidisciplinary Studies of HIV/AIDS and Aging
These FOAs encourage applications at the intersection of HIV and aging by addressing two overarching objectives: 1) to improve understanding of biological, clinical, and socio-behavioral aspects of aging through the lens of HIV infection and its treatment; and 2) to improve approaches for testing, prevention, and treatment of HIV infection, and management of HIV-related comorbidities, co-infections, and complications in different populations and cultural settings by applying our current understanding of aging science.
Application Due Dates: Standard dates apply

PAR-17-332 (R03) - **Small Grants on Primary Immunodeficiency Diseases**
PAR-17-333 (R21) - **Exploratory/Developmental Investigations on Primary Immunodeficiency Diseases**
These FOAs will support research on primary immunodeficiency diseases focusing on ex vivo studies with human specimens and on studies with current or new animal models including novel clinical strategies for detecting, identifying the molecular basis of, or developing innovative therapies for primary immunodeficiency diseases.
Application Due Dates: Standard dates apply

NIH Funding Opportunities: Program Announcements (PA)

These FOAs invite applications that propose to study the ethical, legal and social implications (ELSI) of human genome research. Applications may propose studies using either single or mixed methods.
Application Due Dates: Standard dates apply

Pregnancy in Women with Disabilities (R03)/(R01) (PA-17-451) / (PA-17-452)
Eunice Kennedy Shriver National Institute of Child Health and Human Development
The above funding opportunity announcements (FOA)s issued by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) encourages small research project grants investigating the incidence, course, and outcomes of pregnancy among women with disabilities. Areas of interest also include studies to inform pre-conceptional and antenatal counseling and strategies for addressing barriers to prenatal care, and management of pregnancy, the puerperium, and the transition to parenthood in order to optimize outcomes for women with physical, intellectual and developmental, and/or sensory disabilities and their families. Applicants are encouraged to include women with disabilities and members of the community in the design and conduct of their research.
Application Due Dates: Standard dates apply

PA-17-298 (R01); PA-17-295 (R21)
Integration of Individual Residential Histories into Cancer Research
Application Due Dates: Standard dates apply
Expiration Date: September 8, 2020

Foundation Funding Opportunities

American Cancer Society

ACS-MRA Pilot Award
Understanding, Preventing, and Managing Immunotherapy-related Adverse Events (irAEs) Associated with Checkpoint Inhibition for Melanoma and Other Cancers
The purpose of this FOA is to grant Pilot Awards to test feasibility and generate preliminary data focused on prevention, risk, early detection, and management of short- and long-term immune-related adverse events associated with FDA-approved or late-stage development checkpoint cancer immunotherapies for melanoma and other cancers. Research topics of interest include, but are not limited to: biological basis and mechanism of irAEs; detection and biomarkers; measurement of symptom clusters; and clinical translation. Awards are $200,000 for a two-year period.
Application Due Date: October 16, 2017, electronic application
October 17, 2017, paper application

Research Scholar Grant
Role of Health Policy and Healthcare Insurance in Improving Access to Care and Performance in Cancer Prevention, Early Detection, and Treatment Services
This RFA seeks research that evaluates the impact of the many changes now occurring in the health care system with a particular focus on cancer prevention, control, and treatment. Efforts focusing on improving access to care may also impact inequities that contribute to health disparities. New health public policy initiatives, for example the new federal and state marketplaces that have expanded insurance coverage, as well as Medicaid expansion in some states, create natural experiments ripe for evaluation. Research to be funded by this RFA should focus on the changes in national, state, and/or local policy and the response to these changes by health care systems, insurers, payers, communities, practices, and patients. Applications will be accepted via the Research Scholar Grant in Cancer Control and Prevention Program. The maximum award is for 4 years and for as much as $165,000 per year (direct costs), plus 20% allowable indirect costs. **Application Due Date:** October 16, 2017, electronic application
October 17, 2017, paper application

"Do more than belong: participate. Do more than care: help. Do more than believe: practice. Do more than be fair: be kind. Do more than forgive: forget. Do more than dream: work."

William Arthur Ward (1921-1994), Author, Educator, Motivational Speaker, is one of America's most quoted writers of inspirational maxims.