

SPHHP Research Activities Newsletter

University at Buffalo

August/September 2016

In the News

Congratulations to the Following Awardees:



Jo Freudenheim, UB Distinguished Professor and Interim Chair of Epidemiology and Environmental Health (EEH), is PI on a continuation award from the National Cancer Institute/NIH for the program entitled *Interdisciplinary Training on Cancer Epidemiology at UB*. The program provides training and hands-on opportunities for pre-doctoral fellows to develop research skills in epidemiology, as well as other related disciplines including biostatistics. **Matthew Bonner**, Associate Professor of EEH, is Co-Investigator.

Dr. Freudenheim also is Co-Investigator on a continuation award from the National Science Foundation (PI: Jing Gao, Computer Science & Engineering) for the project entitled, *III: Medium: High-Dimensional Interaction Analysis in Bio-Data Sets*. The focus of this research is to develop innovative and statistically sound methodologies to help identify critical factors in biological applications.



Daniel Gaile, Assistant Professor of Biostatistics, is Co-Investigator on a continuation award from the National Cancer Institute/NIH (PI: Yun Wu, Biomedical Engineering) for the project entitled *Noninvasive Detection of Circulating RNAs for Lung Cancer Early Detection and Prognosis*. The project will continue to develop and validate a novel cationic lipoplex nanoparticles based biochip for detecting circulating RNA targets in serum samples from high risk smokers and lung cancer patients, which may help gain detailed insights into basic lung cancer biology.



Gregory Homish, Associate Professor of Community Health and Health Behavior, is Co-Investigator on a new award from the American Academy of Family Physicians Foundation (PI: Bonnie Vest, Medicine) for the project entitled *Understanding what Family Doctors Need to Treat Veterans and their Families*. This research will assess family medicine providers' knowledge, attitudes and confidence around treating veterans/military family members and to identify factors related to training and educational needs to inform future interventions.

Dr. Homish also is a Co-Investigator on a continuation award (PI: Rina Eiden, UB's Research Institute on Addictions) entitled *Prenatal & Environmental Tobacco Smoke (ETS) Exposure: Effects on Child Regulation*. The project will continue to study the impact of parental substance use on child developmental outcomes. Dr. Homish's role on the project is to examine how the social network (intimate partner, friends and family) impacts changes in an individual's substance use over time.



David Hostler, Professor and Chair of Exercise and Nutrition Sciences, is PI on three new awards. The first, from Creare Incorporated/DOD, is entitled *State University of New York, University at Buffalo Collaboration with Creare for Phase 1 SBIR to Develop and Improve Diver Communication System*. The project will test a novel communication system for Navy divers breathing air and heliox.

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Awardees Con't

The second, from the U.S. Navy Office of Research, is entitled *The Role of Oxygen Breathing on Carotid Body Sensitivity, Oxygen Toxicity, and Performance in Divers*. The study seeks to determine: 1) if carotid body chemosensitivity is altered during and following a simulated dive and determine if breathing 100% oxygen during a simulated dive alters carotid body chemosensitivity when compared to breathing 21% oxygen; and 2) determine if cold-water immersion alters carotid body chemosensitivity.

The third, from the University of Pittsburgh, is entitled *Air Sleep Study Phase 2*. Dr. Hostler will be responsible for recruiting local participants and aiding them through the enrollment process for a clinical trial of sleep and fatigue among air medical providers.



Blair Johnson, Assistant Professor of Exercise & Nutrition Sciences, and **Jeffrey Miecznikowski**, Associate Professor of Biostatistics are Co-Investigators on a new award from the National Institute of Neurological Disorders and Stroke/NIH (PI: John Leddy, Orthopaedics) for the project entitled, *Physiological Mechanisms of a Biomarker of Recovery from Concussion*. This project aims to understand and identify the patient's physiological response to concussion to aid in the development of novel treatment to speed recovery and return to normal activities.



Marc Kiviniemi, Associate Professor of Community Health and Health Behavior, is PI on a new award from Health Research Inc./National Cancer Institute for the project entitled *Novel Intervention to Increase Lactation Practices by African American Women*. The goal of the study is to develop and evaluate a risk reduction intervention using multi-level cognitive and affective strategies through Women, Infants and Children (WIC) Peer Counselors (PCs) to increase breastfeeding by high risk African American mothers.

Dr. Kiviniemi is also PI on a continuation award from Health Research Inc./National Cancer Institute for the project entitled *CRC Screening Thoughts and Feelings: Increasing Engagement of African Americans*. The study continues to examine how African American adults make decisions about screening for colorectal cancer and will continue to test interventions to improve screening rates for colorectal cancer.



Katarzyna Kordas, Associate Professor of Epidemiology and Environmental Health, is PI on a transfer award from the National Institute of Environmental Sciences/NIH for the project entitled *Low-level Exposure to Multiple Metals: Effects on Cognition and Behavior*. The longitudinal study seeks to determine how children's exposure to multiple metals affects specific cognitive functions and behavior through middle childhood.



Michael LaMonte, Research Associate Professor, is a Co-Investigator on UB's National Center for Advancing Translational Sciences award/NIH (PI: Timothy Murphy, Medicine) for the project entitled, *Buffalo Clinical and Translational Research Center*. Dr. LaMonte is a team member of the Biostatistics, Epidemiology and Research Design (BERD) Core. The BERD Core is designed to offer a range of educational and training opportunities that are responsive to the needs and schedules of faculty, trainees and research staff.



Joseph Lane, Director of the Center for Assistive Technology, is PI on a continuation award from the Administration for Community Living, Disability and Rehabilitation Research Program/Dept. of Health and Human Services, for the project entitled *Disability and Rehabilitation Research Program*. The Center's focus is on improving the performance of federal programs designed to generate technology-based innovations – the primary applications are devices and services for persons with disabilities and the elderly. Co-Investigators from CAT include **Jennifer Flagg**, Project Administrative Officer; **James Leahy**, Research Assistant Professor; and **Vathsala Stone**, Research Assistant Professor.



Lucia Leone, Assistant Professor of Community Health and Health Behavior, and **Jennifer Temple**, Associate Professor of Exercise and Nutrition Sciences, are Co-Investigators on a new award from the Eunice Kennedy Shriver National Institute of Child Health & Human Services/NIH (PI: Leonard Epstein, Pediatrics) for the project entitled *Can reinforcing alternatives to food prevent weight gain in children?* The study will compare two-weight control approaches in more than a dozen primary care provider's offices to determine the role of alternatives to food as factors that protect children high in food reinforcement from gaining excess weight and to find out how primary care providers can best deliver weight-control assistance to their patients.





Elizabeth Mietlicki-Baase, Assistant Professor of Exercise and Nutrition Sciences, is PI on a transfer award from the National Institute of Diabetes and Digestive and Kidney Diseases/NIH for the project entitled, *Amylin-Mediated Control of Energy Balance in the Mesolimbic Reward System*. Dr. Mietlicki-Baase's research is designed 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.



Christine Oddo, Research Assistant Professor, Center for Assistive Technology, is PI on a continuation award from the NYS Justice Center for the Protection of People with Special Needs for the project entitled *Technology Related Assistance for Individuals with Disabilities (TRAID) Program*. The program will continue to support the development of state-wide consumer-responsive technical assistance programs for persons with disabilities.



Heather Orom, Associate Professor of Community Health and Health Behavior (CHHB), is PI on a continuation award from the National Cancer Institute/NIH, entitled, *"Don't Know" Responses to Risk Perception Questions: Identifying Mechanisms and Solutions*. The project explores 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 CHHB, is a Co-Investigator.

Dr. Orom also is PI on a new supplement award from the National Cancer Institute/NIH for the project entitled *Identifying Multiple Targets to Address Rural-Urban Disparities in Cancer Risk, Knowledge, and Perception*. The supplement will extend her current R01 research program to identify mechanism underlying 'don't know' responding for colorectal cancer and diabetes risk in rural populations.



Pavani Ram, Associate Professor of Epidemiology & Environmental Health, is PI on two new awards. The first, from USAID, is entitled *IPA – Senior Medical Advisor for Newborn Health*. Dr. Ram will serve as senior medical advisor for the Newborn Health, Maternal and Child Health (MCH) Division of the Office of Health, Infection Disease and Nutrition within the Bureau for Global Health. She will provide technical leadership to the Agency of Newborn Health and technical assistance to USAID missions, regional bureaus and other Global Health offices on the prevention and treatment of severe infection in the newborn.

The second, from the United Nations Office for Project Services (UNOPS), is entitled *Learning Beyond ODF: Strengthening Evaluation of CLTS and Other Community Sanitation Programs*. Dr. Ram will provide a review of current approaches to evaluating household and community effects of country Global Sanitation Fund (GSF) programs, as well as guidance in creating a stronger GSF monitoring and evaluation strategy.



Todd Rideout, Assistant Professor of Exercise and Nutrition Sciences, is PI on a continuation award from the National Center for Complementary and Alternative Medicine/NIH for the project entitled *Cardiovascular Protection by Phytosterols in Dyslipidemic Mothers and Progeny*. Dr. Rideout's research examines phytosterol intervention from pre-pregnancy to weaning on cardiovascular disease risk in hamsters, both in mothers and offspring.



Jean Wactawski-Wende, Dean of the School of Public Health and Health Professions and SUNY Distinguished Professor of Epidemiology and Environmental Health (EEH) is PI on a continuation award from the National Institute of Dental and Craniofacial Research/NIH for the project entitled *Oral Microbiome and Periodontitis: A Prospective Study in Postmenopausal Women*. The study will continue to characterize the oral microbiome in a large existing, well-characterized cohort of postmenopausal women. SPHHP faculty, **Michael LaMonte**, Research Associate Professor of EEH, and **Amy Millen**, Associate Professor of EEH, are Co-investigators



Gregory Wilding, Professor and Interim Chair of Biostatistics, is PI on a continuation award from Heath Research Inc., entitled, Roswell Park Cancer Institute Center Support Grant. Dr. Wilding will continue to provide statistical design and analysis; statistical programming and database development; protocol development; statistical and bioinformatics software development; statistical training and education; statistical reviews; and guidance to several resource steering committees. He will also contribute to the writing of reports and manuscripts.



Albert Vexler, Associate Professor of Biostatistics, and **Jihneeh Yu**, Associate Professor of Biostatistics, are PIs on a new award from the National Library of Science/NIH entitled *Modern Empirical Likelihood Methods in Biomedicine and Health*. The outcome of their work will result in a book that will provide a systematic framework for the innovative biostatistical techniques and practice of research studies that are used to analyze and compare data essential to Biomedicine and Health (e.g., Malaria Studies, and Pneumonia Risk Studies in an ICU Setting).



Dr. Vexler also is a Co-Investigator on a continuation award from the National Institute of Diabetes and Digestive and Kidney Diseases (PI: Paresh Dandona, Medicine) for the project entitled *Liraglutide as Additional Treatment in Patients with Type 1 Diabetes Mellitus*. The placebo controlled study will continue to determine whether there is a beneficial effect of Liraglutide in type 1 diabetes on treatment with insulin.

The following SPHHP faculty received funding from UB's Innovative Micro-Programs Accelerating Collaboration in Themes (IMPACT) Program:



Lucia Leone, Assistant Professor, Community Health and Health Behavior for the project, entitled, *Increasing Exercise Enjoyment and Outcome Expectations among Women with Obesity*. The project proposes a novel approach to increasing exercise participation in this population by focusing on exercise enjoyment, increasing appreciation of the proximal benefits of physical activity rather than focusing on weight, and addressing the changes to the exercise environment that make it conducive to this population.



Zachary Schlader, Assistant Professor, Exercise and Nutrition Sciences (ENS), for the project entitled, *Assessing the Utility of Face Cooling to Maintain Blood Pressure during Hemorrhagic injury*. The project will attempt to discover new interventions that delay cardiovascular decompensation during hemorrhage which will, in turn, give pre-hospital providers extra time to extricate and transport injured patients to the hospital. SPHHP co-investigators include **David Hostler**, Professor and Chair of ENS, **Blair Johnson**, Assistant Professor of ENS, and **Greg Wilding**, Professor and Interim Chair of Biostatistics.

Grant Clinic

NIH Extramural Repayment Loan Programs (LRPs) Application Period is Now Open (9/1/16-11/15/16)

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](#).

NIH NOTICES

[NOT-OD-16-129](#)

New Policy Eliminates Most Appendix Material for NIH/AHRQ/NIOSH Applications

Beginning with applications submitted to the NIH, AHRQ, or NIOSH for due dates on or after **January 25, 2017**, the only allowable appendix materials are:

For applications proposing clinical trials (unless the FOA provides other instructions for these materials):

- Clinical trial protocols
- Investigator's brochure from Investigational New Drug (IND), as appropriate

For all applications:

- Blank informed consent/assent forms
- Blank surveys, questionnaires, data collection instruments
- FOA-specified items.

*If appendix materials are *required* in the FOA, review criteria for that FOA will address those materials, and applications submitted without those appendix materials will be considered incomplete and will not be reviewed.

Applications submitted for due dates on or after January 25, 2017 will be withdrawn and not reviewed if they are submitted with appendix materials that are not specifically listed in this Notice or the FOA as allowed or required.

[NOT-OD-16-130](#)

Changes to NIH/AHRQ/NIOSH Policy on Post-Submission Materials for Applications Submitted for Due Dates on or After January 25, 2017

This Notice simplifies and consolidates current NIH and AHRQ policy concerning post-submission materials, and extends this policy to NIOSH (*a list of allowable post submission materials can be found at the NOT link above*). Post-submission materials must be received by the NIH, AHRQ, or NIOSH Scientific Review Officer (SRO) no later than 30 calendar days prior to the peer review meeting. Although the post-submission materials may originate from the PD/PI, Contact PD/PI, or organizational officials, the AOR must send the materials directly to the SRO or must send his/her concurrence to the PD/PI who will forward the materials and concurrence to the SRO. A communication from the PD/PI only or with a "cc" to the AOR will not be accepted.

[NOT-OD-16-143](#)

Optional Electronic Method to Request Withdrawal of Applications from Consideration for Funding

Applicant organizations are now able to submit requests to withdraw a processed application after the two day viewing window has passed using the eRA Commons Prior Approval module. The request can be submitted electronically by an AOR/SO from within the Electronic Research Administration's (eRA) Commons, navigating from the Prior Approval tab on the landing page. Submission of application withdrawal requests through the eRA Commons is optional. Applicant organizations may still withdraw applications by contacting DRR directly: a letter with ink signature from the AOR/SO may be sent via e-mail attachment to CSRDRR@mail.nih.gov.

[NOT-OD-16-134](#)

Projected FY 2017 Stipend Levels for Postdoctoral Trainees and Fellows on Ruth L. Kirschstein National Research Service Awards

NIH has released projected stipend levels for *postdoctoral trainees and fellows* supported by Kirschstein-NRSA awards in Fiscal Year (FY) 2017 (please see link above). These projected new stipend levels are planned to be effective December 1, 2016. The exact stipend levels and the actual date of implementation are subject to the availability of FY 2017 appropriations and implementation of the new FLSA threshold for professional workers to be eligible for paid over-time.

[NOT-EB-16-008](#)

Notice of NIH/BD2K Participation in the Joint NSF/NIH Initiative on Quantitative Approaches to Biomedical Big Data (QuBBD)

The Quantitative Approaches to Biomedical Big Data Program is designed to support research that addresses important application areas at the intersection of the biomedical and data sciences by encouraging inter- and multi-disciplinary collaborations that focus on innovative and transformative approaches to address these challenges. The NIH expects to fund projects with durations of up to 3 years with awards expected to be less than \$200,000 (direct costs) per year. Applications must be submitted to the NSF ([NSF Solicitation No. 16-573](#)), not to the NIH, in accordance with NSF Grant Proposal Guide. For those applications that are selected for potential funding, the PD/PI will be required to submit the application in an NIH-approved format and will receive further information on submission procedures from NIH.

[NOT-OD-16-122](#)

Availability of Resources for Instruction in the Responsible Conduct of Research

The NIH Research Training website (<http://grants.nih.gov/training/extramural.htm>) includes information on instruction in responsible conduct of research and provides links to the Office of Research Integrity website (<http://ori.hhs.gov/>), which has resources for the responsible conduct of research.

[NOT-OD-16-094](#)

Final NIH Policy on the Use of a Single Institutional Review Board for Multi-Site Research

The NIH Policy on the Use of a Single Institutional Review Board of Record for Multi-Site Research establishes the expectation that all sites participating in multi-site studies involving non-exempt human subjects research funded by the NIH will use a single Institutional Review Board (sIRB) to conduct the ethical review required by the Department of Health and Human Services regulations for the Protection of Human Subjects at 45 CFR Part 46. This policy applies to all competing grant applications (new, renewal, revision, or resubmission) with receipt dates on or after May 25, 2017.

[NOT-MH-16-006](#)

Availability of RAISE Data for Secondary Data Analysis

Data from the Recovery After an Initial Schizophrenia Episode- Early Treatment Program study (RAISE-ETP) will be available to the research community for secondary data analyses via the NIMH National Database for Clinical Trials (NDCT) at <http://ndct.nimh.nih.gov/>.

[NOT-GM-16-113](#)

Revised Application Instructions for PAR-16-109 “Bridges to the Doctorate (R25)”

If planning to submit to PAR-16-109, please visit the NIH Notice listed above for a list of modifications to the FOA.

[NOT-MH-16-018](#)

NIMH Priorities for HIV Research and Funding

NIMH will implement the 2016 NIH HIV/AIDS Research Priorities and Guidelines for Determining AIDS Funding, as announced via [NOT-OD-15-137](#). This Notice provides guidelines for determining whether a research project has a high-, medium-, or low-priority for receiving AIDS-designated funding. Accordingly, applicants are strongly encouraged to contact Division of AIDS Research program staff prior to application submission, so that program staff can provide their assessment of the high, medium, or low alignment of the research topic with the HIV/AIDS guidelines.

Notice of Intent to Publish a Funding Opportunity

NOT-NR-16-004	The Palliative Care Research Co-Operative (PCRC) (U24)	Expected Spring 2017
NOT-CA-16-064	Coordinating Center for Population-based Research to Optimize the Screening Process (PROSPR) Initiative	Expected Fall 2016
NOT-CA-16-063	Research Centers under the Population-based Research to Optimize the Screening Process (PROSPR) Initiative	Expected Fall 2016
NOT-OD-16-150	Center for Coordination of Analytics, Science, Training, and Logistics (CASTL) in Tobacco Regulatory Science (U54)	Expected February 2017
NOT-OD-16-151	Tobacco Centers of Regulatory Science for Research Relevant to the Family Smoking Prevention and Tobacco Control Act (U54)	Expected February 2017
NOT-HL-16-441	Integrated Approaches to HIV-Related Heart, Lung, Blood, and Sleep Comorbidities (R01)	Expected Winter 2016
NOT-HL-16-444	Implementation REsearch to DEvelop interventions for People Living with HIV (PRECluDE) (U01)	Expected Winter 2016

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.

[RFA-DK-16-006 \(P30\)](#)

Nutrition Obesity Research Centers (NORCs)

The objective of the NORC program is to bring together basic science, clinical, and translational investigators from relevant disciplines to enhance and extend the effectiveness of research related to nutritional sciences and/or obesity. NORCs support three primary research-related activities: Research Core services, a Pilot and Feasibility (P and F) program, and an Enrichment program. *Only one application per institution is allowed.*

Application Due Date: November 23, 2016

[RFA-ES-16-011 \(R25\)](#)

BD2K Research Education Curriculum Development: Data Science Overview for Biomedical Scientists

The over-arching goal of this program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on *Curriculum or Methods Development* in Big Data Science to augment current institutional curricula for the training of predoctoral level biomedical scientists and provide concentrated instruction in the tools, approaches and quantitative analysis concepts in data science. *Only one application per institution is allowed.*

Application Due Dates: December 7, 2016; December 1, 2017

[RFA-DK-16-020 \(P30\)](#)

Diabetes Research Centers

This FOA invites applications for Diabetes Research Centers that are designed to support and enhance the national research effort in diabetes, its complications, and related endocrine and metabolic diseases. Diabetes Research Centers support three primary research-related activities: Research Core services, a Pilot and Feasibility program, and an Enrichment program. *Only one application per institution is allowed.*

Application Due Dates: February 28, 2017

[RFA-ES-15-020 \(R01\)](#)

Outstanding New Environmental Scientist (ONES) Award

The ONES Award is intended to identify the most talented Early Stage Investigators (ESIs) who intend to make a long-term commitment to research in the Environmental Health Sciences and assist them in launching an innovative research program focused on the understanding of environmental exposure effects on people's health. *Only one application per school or college within a University will be accepted; if interested in applying, please contact R. Lorraine Collins, rcollins@buffalo.edu.*

Application Due Dates: February 28, 2017; February 27, 2018

[PAR-16-361 \(R25\)](#)

Research Initiative for Scientific Enhancement (RISE)

The over-arching goal of this NIGMS R25 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.*

Application Due Dates: May 25, 2017 and May 25, 2018

NIH Funding Opportunities: Requests for Applications (RFA)

November Due Dates

[RFA-MH-16-800 \(R01\)](#)

Applied Research Toward Zero Suicide Healthcare Systems

This FOA is intended to support applied research that advances the National Action Alliance for Suicide Prevention's "[Zero Suicide](#)" goal of preventing suicide events (attempts, deaths) among individuals receiving treatment within health care systems. Research is needed to implement effective and comprehensive suicide prevention strategies in a variety of settings, including behavioral health and substance abuse outpatient clinics, emergency departments and crisis care programs and centers, hospitals, and integrated primary care programs.

Application Due Dates: November 2, 2016

[RFA-AG-17-014 \(UH2/UH3\)](#)

Predictors and Determinants of Age-Related Changes in Resiliencies to Physical Stressors in Humans

This FOA is a phased innovation initiative to enhance clinical tools to assess resiliencies and advance our understanding of age-related changes in resiliencies to physical stressors in humans. Resilience is defined here as the dynamic ability to maintain or recover appropriate function in response to a physical stressor. For the purposes of this FOA, examples of physical stressors include hip fracture, infections, or surgical procedures.

Application Due Date: November 3, 2016

[RFA-GM-17-004 \(R35\)](#)

Maximizing Investigators' Research Award for Early Stage Investigators

The Award is a grant to provide support for the program of research in an investigator's laboratory that falls within the [mission of NIGMS](#). NIGMS supports research on technology development and computational approaches, as well as basic biomedical sciences, translational, and clinical research, and all phases of the scientific process, not only hypothesis testing. Within the scope of the MIRA grant, investigators will have the freedom to explore new avenues of inquiry that arise during the course of their research, as long as they remain within the mission of NIGMS.

Application Due Date: November 4, 2016

[RFA-DK-16-007 \(DP3\)](#)

Neurocognitive Effects of Glycemic Dysregulation in Type 1 Diabetes

The purpose of this FOA is to elucidate the etiology and pathogenesis of the neurocognitive impairment in type 1 diabetes (T1D) with the ultimate goal of informing future strategies to mitigate this risk. Applications may propose de novo human studies or expansions of ongoing studies of well characterized T1D cohorts.

Application Due Date: November 14, 2016

[RFA-MD-16-002 \(R25\)](#)

NIH Big Data to Knowledge (BD2K) Enhancing Diversity in Biomedical Data Science

This Program supports research education activities in the mission areas of the NIH. The over-arching goal is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce. To accomplish this, goal, this FOA will support creative educational activities with a primary focus on research experiences and curriculum or methods development.

Application Due Date: November 14, 2016

[RFA-DA-17-019 \(U24\)](#)

Coordinating Center for the HIV/AIDS and Substance Use Cohorts Program

NIDA supports a program of longitudinal cohorts to address emerging and high priority research on HIV/AIDS in the context of injection and non-injection substance abuse and has determined that a coordinating center (CC) is needed in order to take advantage of these rich sources of data and bio-specimens and optimize collaborations among both the cohort investigators and other researchers not funded under the cohort program. In addition, the CC is expected to establish a virtual repository, and facilitate the leadership of the cohorts steering committee (SC), consisting of representatives from the NIDA-funded cohorts and NIDA staff.

Application Due Date: November 14, 2016

[RFA-DA017-013 \(R01\)](#)

Mechanisms of Immune Activation and Inflammation: HIV Infection, ART, and Drugs of Abuse

The purpose of this FOA is to promote research to investigate the underlying molecular mechanisms of HIV infection-induced immune activation and inflammation in the presence of antiretroviral therapy (ART) agents and drugs of abuse. The ultimate goal is to obtain information for developing therapeutic interventions for attenuating chronic inflammation-associated comorbidities as well as for restoring or improving ART efficacy in HIV-infected drug-abusing populations.

Application Due Date: November 18, 2016

[RFA-AG-17-030 \(K76\)](#)

Paul B. Beeson Emerging Leaders Career Development Awards in Aging

The NIA is pursuing this initiative to recruit talented new investigators who have begun to establish research programs and who, through this award, will be ready to assume leadership roles in their field of expertise and who will be poised to change theory, practice and health outcomes related to the health of older individuals. Unlike other mentored K awards, candidates for this award must have received competitively awarded research support as a PD/PI at the faculty level and have had prior leadership responsibilities in the clinical or research domain.

Application Due Date: November 23, 2016

December Due Dates

[RFA-AA-17-001 \(P50\)](#) – **Specialized Alcohol Research Centers**

[RFA-AA-17-002 \(P60\)](#) – **Comprehensive Alcohol Research Centers**

The overall purpose of the NIAAA Alcohol Research Center program is to provide leadership in conducting and fostering interdisciplinary, collaborative research on a wide variety of topics relevant to the Institute's mission. These topics include, but are not limited to: the nature, etiology, genetics, diagnosis, treatment, and prevention of alcohol use disorders and their biomedical, psychosocial, and economic consequences across the lifespan. Centers also are regional or national resources that contribute to the development of new research methods, technologies and approaches that sustain innovative goal-directed research.

Application Due Date: December 5, 2016

[RFA-AI-16-031 \(UG3/UH3\)](#)

Limited Interaction Targeted Epidemiology to Advance HIV Prevention

This FOA solicits applications to use innovative technology to conduct epidemiologic studies of large cohorts of U.S. populations at high risk of HIV infection: men who have sex with men (MSM), transgender women, and black/African American women. The UG3/UH3 Phased Innovation Awards Cooperative Agreement involves 2 phases. Funding for a UG3 phase will be used to enroll and follow sufficient numbers of high-risk HIV-negative participants to reach seroconversion milestone targets.

Application Due Date: December 5, 2016

[RFA-DK-16-022 \(R01\)](#)

Promoting Organ and Tissue Donation Among Diverse Populations

This FOA invites applications which search for barriers to organ and tissue donation. This may include studying individual attitudes, beliefs and behaviors towards organ and tissue transplantation, as well as the need for organ transplantation, among diverse and underserved populations and rural communities. Successful approaches should ultimately lead to increase in the number of diverse and underserved participating in living and deceased organ donation.

Application Due Date: December 5, 2016

[RFA-MD-16-003 \(R01\)](#)

Engaging Youth and Young Adults from Health Disparity Populations in the HIV Treatment Cascade

This initiative will support research projects that implement and test comprehensive service approaches to engage and retain youth and young adults (age 12 – 25 years) from health disparity populations in the HIV Treatment Cascade, which includes diagnosis, linkage to care, engagement in care, retention in care, initiation of antiretroviral therapy (ART), and achievement of viral suppression.

Application Due Date: December 7, 2016

[RFA-LM-17-002 \(G08\)](#)

NLM Information Resource Grants to Reduce Health Disparities

This FOA solicits resource grant applications for projects that will bring useful, usable health information to health disparity populations and their health care providers. Access to useful, usable, understandable health information is an important factor during health decisions. Proposed projects should exploit the capabilities of computer and information technology and health sciences libraries to bring health-related information to consumers and their health care providers.

Application Due Date: December 16, 2016

January 2017 Due Dates

[RFA-DC-17-002 \(R01\)](#)

Noise-Induced Synaptopathy in the Human Auditory System

This FOA seeks applications focused on determining if noise-induced cochlear synaptopathy occurs in humans. Studies may include, but are not limited to, diagnosis/detection and determination of functional consequences of such noise-induced damage. Animal studies could be responsive to this FOA, but the direct applicability to humans must be clearly delineated. Multi-disciplinary teams are encouraged to apply.

Application Due Dates: January 24, 2017

[RFA-AG-17-013 \(R21/R33\)](#)

Encouraging Appropriate Care Using Behavioral Economics through Electronic Health Records

This FOA invites applications proposing to apply behavioral economics principles to build interventions into electronic health records (EHRs) for the purpose of improving physician compliance with recommended treatment guidelines, thereby improving quality of care, health outcomes and reducing health disparities.

Application Due Dates: January 30, 2017

Multiple Due Dates

[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: November 10, 2016; October 10, 2017; October 10, 2018

[RFA-ES-16-010 \(R24\)](#)

Big Data to Knowledge (BD2K) Community-Based Data and Metadata Standards Efforts

This FOA provides time-limited, catalytic support for activities necessary to develop or extend/refine data and metadata standards and/or related tools in areas relevant to the NIH basic, translational, and clinical research mission. Projects can support activities at any point in the data standards lifecycle and should build on existing partnerships, infrastructure, and resources whenever possible.

Application Due Dates: November 9, 2016; October 19, 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.

Application Due Dates: February 9, 2017 and October 11, 2017

[RFA-HL-16-024 \(R35\)](#)

NHLBI Outstanding Investigator Award (OIA)

The purpose of this award is to promote scientific productivity and innovation by providing long-term support (up to seven years) and increased flexibility to experienced Program Directors/Principal Investigators (PDs/PIs) who are currently PDs/PIs on at least two NHLBI R01-equivalent awards and whose outstanding record of research demonstrate their ability to make major contributions to heart, lung, blood and sleep (HLBS) research.

Application Due Dates: February 15, 2017; February 15, 2018

[RFA-HL-16-025 \(R35\)](#)

NHLBI Emerging Investigator Award (EIA)

The purpose of the NHLBI Emerging Investigator Award (EIA) is to promote scientific productivity and innovation by providing long-term support and increased flexibility to Program Directors /Principal Investigators (PDs/PIs) who currently have two NHLBI R01 awards, of which one must be an NHLBI-funded NIH [Early Stage Investigator](#) R01 award. The NHLBI EIA will provide investigators increased freedom to conduct research that breaks new ground or extends previous discoveries in new directions.

Application Due Dates: February 15, 2017; February 15, 2018

[RFA-HL-17-022 \(R21\)](#)

Maximizing the Scientific Value of the NHLBI Biorepository: Scientific Opportunities for Exploratory Research

This 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 (Biorepository), 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: February 17, 2017; October 17, 2017; February 15, 2018; October 17, 2018; February 15, 2019; October 17, 2019

[RFA-ES-16-005](#)

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. The primary motivation is 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, with the entire cycle expected to be within 3-4 months.

Application Due Dates: Multiple due dates, please see FOA

NIH Funding Opportunities: Program Announcement Reviewed by an Institute (PAR)

[PAR-16-357 \(DP1\)](#)

Avenir Award Program for Genetics or Epigenetics of Substance Use Disorders

This program supports early stage investigators proposing highly innovative studies that open new areas of research for the genetics or epigenetics of addiction. These may be novel methods or approaches that can potentially be applied to the analysis of the genetics or epigenetics of addiction. Investigators outside the field of addiction interested in applying their novel approaches to the genetics or epigenetics of addiction are encouraged to apply.

Application Due Dates: October 19, 2016, October 19, 2017; October 19, 2018

[PAR-16-355 \(R01\)](#); [PAR-16-356 \(R21\)](#)

Social Epigenomics Research Focused on Minority Health and Health Disparities

The purpose of these FOAs is to support and accelerate innovative exploratory and developmental human epigenomic investigations focused on identifying and characterizing the mechanisms by which social experiences at various stages in life, both positive and negative, affect gene function and thereby influence health trajectories or modify disease risk in minority and health disparity populations.

Application Due Dates: November 15, 2016; November 15, 2017; November 15, 2018

[PAR-16-343 \(R21\)](#)

Limited Competition: Exploratory CTSA Collaborative Innovation Awards

The purpose of this FOA is to support highly innovative, exploratory, collaborative research projects in the NCATS' Clinical and Translational Science Award (CTSA) program, with the goal of assessing utility and feasibility of proposed innovation(s). This FOA will enable collaborative teams of investigators, from at least two different CTSA Institutions, to explore novel, generalizable approaches to important translational science questions, and to assess the utility and feasibility of such approaches.

Application Due Dates: November 29, 2016; March 29, 2017; July 31, 2017; November 29, 2017, March 29, 2018
July 30, 2018

[PAR-16-326 \(UG3/UH3\)](#)

Advancing Basic Behavioral and Social Research on Resilience: An Integrative Science Approach

This FOA encourages applications that will elucidate mechanisms and processes of resilience within a general framework that emphasizes its dynamics and interactions across both time and scale (level of analysis). The framework has four features: (1) assessment of a baseline level prior to a challenge, (2) characterization of a specific challenge (acute or chronic), (3) post-challenge measures of outcomes that characterize the response over time, and (4) predictors of outcomes (including predisposing factors at the individual level and environmental moderators). Measurement of response across multiple domains (physiological, psychological etc.) is critical to this holistic framework.

Application Due Date: December 1, 2016

[PAR-16-418 \(R61/R33\)](#)

[PAR-16-419 \(R33\)](#)

Exploratory Clinical Trials and Studies of Natural Products in NCCIH High Priority Research Topics

These FOAs support pilot testing 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. The data collected should be used to fill gaps in scientific knowledge and provide the information necessary to develop a competitive full-scale clinical trial.

Application Due Date: December 2, 2016

[PAR-16-410 \(R43/R44\)](#)

Wearable Alcohol Biosensors SBIR

The purpose of this FOA is to encourage Small Business Innovation Research applications from eligible small business concerns proposing to design and produce a non-invasive, discreet, wearable device to monitor blood alcohol levels in real time. Methods that quantify alcohol in blood or interstitial fluid as opposed to detection of alcohol that has exuded through the skin are of particular interest.

Application Due Dates: December 6, 2016; April, 4, 2017; December 6, 2017; April 4, 2018; December 6, 2018;
April 4, 2019

[PAR-16-358 \(P01\)](#)

[PAR-16-359 \(P01, Revision and Resubmission\)](#)

NIA Program Project Applications

The NIA invites the submission of investigator-initiated program project (P01) applications. Each application submitted to this FOA must include at least three related research projects that share a common central theme, focus, and/overall objective and an administrative core to lead the project.

Application Due Dates: January 25, 2017; May 25, 2017; January 25, 2018; May 25, 2018; January 25, 2019;
May 28, 2019

[PAR-16-380 \(R01\)](#)

Fundamental Mechanisms of Affective and Decisional Processes in Cancer Control

This FOA encourages projects to generate fundamental knowledge of affective processes. Basic affective science projects should have key consequences for single (e.g., cancer screening) and multiple (e.g., adherence to oral chemotherapy regimen) event decisions and behaviors across the cancer prevention and control continuum.

Application Due Dates: April 11, 2017; October 10, 2017; April 11, 2018; October 10, 2018; April 11, 2019,
October 11, 2019

[PAR-16-349 \(UG3/UH3\)](#)

New Informatics Tools and Methods to Enhance U.S. Cancer Surveillance Research

This FOA seeks applications for projects to develop, adapt, apply, scale-up, and validate tools and methods to improve the collection and integration cancer registry data and to expand the data items collected. Applications must be built on partnership with U.S. population-based central cancer registries (a partnership must involve at least two different registries).

Application Due Dates: April 14, 2017; November 30, 2017; April 16, 2018; November 30, 2018; April 16, 2019

[PAR-16-333 \(R01\)](#)

Metabolic Contributions to the Neurocognitive Complications of Diabetes: Ancillary Studies

The purpose of this FOA is to elucidate the etiology and pathogenesis of the neurocognitive complications associated with type 2 diabetes (T2D) with the ultimate goal of informing future strategies to mitigate the risk of these complications. Applications should propose expansions of ongoing human studies of well characterized T2D cohorts or cohorts comparing T2D with non-diabetic populations.

Application Due Dates: Standard dates apply

[PAR-16-338 \(R01\); PAR-16-336 \(R21\); PAR-16-337 \(R03\)](#)

Linking the Provider Recommendation to Adolescent HPV Vaccine Uptake

These FOAs encourage research on how the healthcare delivery system enhances or inhibits the effectiveness of a provider's recommendation of the adolescent human papillomavirus (HPV) vaccine. Characteristics of the provider, parent/patient, and clinical setting, can all affect whether a provider makes a recommendation, and whether that recommendation results in uptake of the HPV vaccine. This research requires expertise in cancer prevention, adult and childhood behavior, immunization promotion, and healthcare delivery.

Application Due Dates: Standard dates apply

[PAR-16-348 \(R03\)](#)

Small Research Grants for Analyses of Data for the Gabriella Miller Kids First Data Resource

This FOA is intended to promote meritorious small research projects focused on the development and analyses of childhood cancer and/or structural birth defects datasets that are part of the Kids First Data Resource or could be included in the Kids First Data Resource. Development of statistical methodology appropriate for analyzing genome-wide data relevant to childhood cancer and/or structural birth defects may also be proposed.

Application Due Dates: Standard dates apply

[PAR-16-352 \(R33\)](#)

[PAR-16-353 \(R21/R33\)](#)

Target Assessment, Engagement and Data Replicability to Improve Substance Use Disorders Treatment Outcomes

The purpose of these FOAs is to provide support for applications that focus on data replication and the scalability of novel, targeted addiction treatments. Consistent with an experimental therapeutics approach, studies that would fall under the R33 (Phase II) would include studies with theory-derived targets and clearly defined hypotheses about how the proposed treatment directed at changing the target relates to clinical outcomes. Areas supported by this FOA include research to generate and conduct preliminary tests of targeted addiction treatment to address multiple substances, which may include alcohol, tobacco and other drug use.

Application Due Dates: Standard dates apply

[PAR-16-375 \(R43/R44, T1\); PAR-16-376 \(R43/R44, T2\)](#)

Translation Research on Aging: Small Business Innovation Awards

These FOAs support innovative research conducted by small businesses through the SBIR program to advance the availability of novel devices, products, health care practices and programs with the potential for commercial success and the likelihood to benefit the lives of older adults.

Application Due Dates: Standard dates apply

[PAR-16-379 \(P01\)](#)

Center of Excellence for Research on Complementary and Integrative Health

This Center of Excellence for Research on Complementary and Integrative Health (CERCIH) program is designed to support three or more highly meritorious projects that can offer significant scientific advantages and "synergy" that could not be achieved by supporting the same projects as individual research grants. Each CERCIH must be focused on questions of high relevance to the mission of NCCIH.

Application Due Dates: Standard dates apply

[PAR-16-360 \(K01\)](#)

Transition to Independence Environmental Health Research (TIEHR) Career Award

The TIEHR Career Award is a 3-year bridge scholar development program for newly independent faculty who intend to pursue research careers in environmental health sciences.

Application Due Dates: Standard dates apply

[PAR-16-393](#)

NIDA Program Project Grant Applications

NIDA announces the availability of support for collaborative research by multi-disciplinary teams which is of high priority. The Program will support research in which the funding of three or more highly meritorious projects as a group enriches both the component projects and the overall program to offer significant scientific advantages over supporting the same projects as individual research grants (i.e., synergy). For the duration of the award, each Program must consist of a minimum of three research projects focused on issues critical to advance the mission and goals of NIDA.

Application Due Dates: Standard dates apply

[PAR-16-399](#) – **NCI Mentored Patient-Orientated Research Career Development Award to Promote Diversity (K23)**

[PAR-16-400](#) – **NCI Mentored Clinical Scientist Research Career Development Award to Promote Diversity (K08)**

[PAR-16-401](#) - **NCI Mentored Research Scientist Development Award to Promote Diversity (K01)**

The NCI's Diversity Training Branch and the Center to Reduce Cancer Health Disparities announce the availability of career development awards for individuals with a health professional doctoral degree from groups currently underrepresented on a national level in the biomedical, clinical, behavioral, and social sciences.

Application Due Dates: Standard dates apply

[PAR-16-404 \(R01\)](#)

NLM Express Research Grants in Biomedical Informatics

The National Library of Medicine (NLM) offers support for innovative research in biomedical informatics and data science. NLM defines biomedical informatics as the science of optimal representation, organization, management, integration and presentation of information relevant to human health and biology, for purposes of learning, sharing and use.

Application Due Dates: Standard dates apply

NIH Funding Opportunities: Program Announcements (PA)

[PA-16-332 \(R01\)](#)

Nutrigenetics and Nutrigenomics Approaches for Nutrition Research

Application Due Date: Standard dates apply

Expiration Date: September 8, 2019

[PA-16-372 \(R03\); PA-16-373 \(R21\)](#)

Research Grants on Primary Immunodeficiency Diseases

Application Due Dates: Standard dates apply

Expiration Date: July 17, 2019

[PA-16-395 \(R01\); PA-16-394 \(R03\)](#)

Secondary Analyses of Alcohol and Chronic Disease

Application Due Dates: Standard dates apply

Expiration Date: September 8, 2019

[PA-16-420 \(R18\)](#)

Advances in Patient Safety through Simulation Research

Application Due Dates: Standard dates apply

Expiration Date: January 26, 2022

[PA-16-424 \(R01\)](#)

Developing Measures of Shared Decision Making

Application Due Dates: Standard dates apply

Expiration Date: February 5, 2022

[PA-16-428 \(R01\); PA-16-432 \(R21\)](#)

Health Promotion Among Racial and Ethnic Minority Males

Application Due Dates: Standard dates apply

Expiration Date: January 8, 2020

"It is more important to know where you are going than to get there quickly. Do not mistake activity for achievement."

Mabel Newcomer (1892-1983)

