

SPHHP Research Activities Newsletter

University at Buffalo

September 2019

IN THE NEWS

Congratulations to the Following Awardees!



Jo Freudenheim, UB Distinguished Professor and Chair of Epidemiology and Environmental Health, is PI on a continuation 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 and other related disciplines.



Rachael Hageman Blair, Associate Professor of Biostatistics, is Co-I on a new award (PI: Chelsie Armbruster, Microbiology & Immunology) from the National Institute of Diabetes and Digestive and Kidney Diseases/NIH for the project entitled, *Conserved Proteus Mirabilis Genetic Requirements for Colonization of the Catheterized Urinary Tract*. The study aims to uncover novel, conserved, and clinically relevant targets for therapeutic intervention of catheter-associated urinary tract infections, which are among the most common hospital-acquired infections worldwide.

Dr. Hageman Blair also is Co-I on a renewal award (PI: Javier Blanco, Pharmaceutical Sciences), from the National Institute of General Medical Sciences/NIH for the project entitled, *Defining the Contribution of Cellular Hypoxia to the Cardiotoxicity of Anticancer Anthracyclines and Trastuzumab*. The study will provide data on the impact of hypoxia, a hallmark of coronary heart disease, on the cardiac metabolism and pharmacodynamics of anticancer therapies in order to design a more effective and less toxic therapeutic regimen.



David Hostler, Professor and Chair of Exercise and Nutrition Sciences, is PI on a new award (Co-PI: Brian Clemency, Emergency Medicine) from the Emergency Medicine Foundation for the project entitled, *Understanding the Nutrition Practices of Dayshift and Nightshift EMS Workers*. The study will examine the eating habits of EMS clinicians, who as a group are at risk for high rates of overweight and obesity. Participants will report on their caloric energy intake, feeding frequency, and energy expenditure. Findings related to the relationships among these variables could serve as the basis for interventions to improve the health of EMS clinicians.



Heather Ochs-Balcom, Associate Professor of Epidemiology and Environmental Health, is PI on a new award from the Peter T. Rowley Breast Cancer Scientific Research Projects/NYS Dept. of Health for the project entitled, *The Association Between Follicle Stimulating Hormone, Obesity, and Breast Cancer in Postmenopausal Women*. Using a sample of postmenopausal women from the Women's Health Initiative, the study will evaluate the degree to which FSH is related to overall and abdominal obesity and will provide insight into how obesity and cancer are related. EEH Co-Investigators include **Hailey Banack**, Research Assistant Professor, and **Jean Wactawski-Wende**, Dean of SPHHP and SUNY Distinguished Professor.

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Jean Wactawski-Wende, Dean of SPHHP and SUNY Distinguished Professor of Epidemiology and Environmental Health, is PI on two new awards from Kent Memorial County Hospital for the projects entitled, *WHISH-2 Prevent Heart Failure Study* and *WHISH-2 Prevent Heart Failure Study Outcomes*. An ancillary study to the WHI, the projects will evaluate physical activity, sedentary behavior, muscle strength and the risk of heart failure.



Gregory Wilding, Professor and Chair of Biostatistics, is Co-I on a continuation award (PI: Kris Tjaden, Communicative Disorders and Sciences) from the National Institute on Deafness and Other Communication Disorders/NIH for the project entitled, *Therapeutic Approaches to Dysarthria: Acoustic and Perceptual Correlates*. The study is investigating therapeutic techniques for maximizing intelligibility in dysarthria secondary to Parkinson's Disease and Multiple Sclerosis.

GRANT CLINIC

NIH Extramural Loan Repayment Programs (LRPs) Application Period is Open 09/01/19 – 11/15/19

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. The NIH invites qualified health professionals who contractually agree to engage in NIH mission-relevant research for an average of at least 20 hours each week for at least two years, initially, to apply for an award in the Extramural LRP. The award will repay up to \$50,000 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 [here](#).

Data are available from the Adolescent Brain Cognitive Development (ABCD) Study

The Adolescent Brain Cognitive Development (ABCD) Study, the largest long-term study of brain development and child health in the United States, is tracking the development of 11,878 youth starting at ages 9–10 at regular intervals for a decade. Participants will undergo multimodal structural and functional neuroimaging, assessments of neurocognition, physical, and mental health, substance use, and culture and environment, as well as biospecimen collection for hormonal, genetic, environmental exposure, and substance use confirmation (visit the [ABCD Study website](#) to view the study's assessment protocols).

Approximately 100 terabytes of data obtained from the full participant cohort are available to scientists worldwide to conduct research on the many disparate factors that affect brain, cognitive, social, and emotional growth and, in turn, overall health and well-being.

- Data Release 2.0, available now on the [NIMH Data Archive](#), includes baseline data on the full participant cohort, ages 9-10 years. [Last year's release](#) (Data Release 1.1) contained baseline data on nearly half of the cohort.
- This release includes much of the same type of data as contained in Data Release 1.1, but also includes genotypic data for the first time:
 - * Genomics data (Smokescreen genotyping array) are available on almost 11,000 participants. These include common variations, as well as variations associated with addiction, smoking behavior and nicotine metabolism.
- [A Data Exploration and Analysis Portal \(DEAP\)](#) is available on the NIMH Data Archive to facilitate analysis of ABCD Study data. The DEAP allows authorized users to analyze ABCD Study data online, while providing appropriate statistical models and tools that take advantage of the study design.
- Data will be released annually. The next data release will be in early summer 2020 and will include the first longitudinal data from the 6-month and 1-year follow-up assessments.

For more information about Data Release 2.0 and to request access to the data, visit the [ABCD data collection on the NIMH Data Archive](#).

Please Note:

[NOT-AA-19-023](#); [NOT-AA-19-024](#)

NIAAA's Participation in PAR-19-162 (R01) and PAR-19-163 (R21) "Accelerating the Pace of Child Health Research Using Existing Data from the Adolescent Brain Cognitive Development (ABCD) Study"

Effective immediately, NIAAA will participate in these FOAs.

NIH NOTICES

[NOT-OD-19-139](#)

NIH Changes Definition of “Sexual and Gender Minority”

NIH published revised definition of “sexual and gender minority” (SGM) populations for research purposes. The new definition is, “SGM populations include, but are not limited to, individuals who identify as lesbian, gay, bisexual, asexual, transgender, two-spirit, queer, and/or intersex. Individuals with same-sex or -gender attractions or behaviors and those with a difference in sex development are also included. These populations also encompass those who do not self-identify with one of these terms but whose sexual orientation, gender identity or expression, or reproductive development is characterized by non-binary constructs of sexual orientation, gender, and/or sex.”

[NOT-OD-19-142](#)

NIH Sexual & Gender Minority Research Office (SGMRO) Announces Mid-Atlantic Regional Workshop on Sexual and Gender Minority (SGM)-Related Health Research

To achieve Goal Three of the Strategic Plan (strengthen the community of researchers and scholars who conduct research relevant to SGM health and well-being), the SGMRO will host this regional workshop to build capacity within the extramural research community. The Regional Workshop is being held on **October 11, 2019** in collaboration with the Sidney Kimmel Cancer Center at Thomas Jefferson University in Philadelphia, Pennsylvania. To register, please visit [here](#). The workshop is free to attend but space is limited.

[NOT-CA-19-068](#)

Pre-Application Webinar for RFA-CA-19-033 “Improving Outcomes for Pediatric, Adolescent and Young Adult Cancer Survivors”

NCI will hold a webinar on **Thursday, October 3, 2019 from 1:00-2:00pm (ET)**. This webinar applies to the second round of applications for the receipt date of January 3, 2020. Registration is required; please see the NIH notice for registration information.

[NOT-DK-19-018](#)

Extension of PAR-18-727, Food Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure

An additional receipt date has been added for this PAR. The additional due date is January 27, 2020

REQUESTS FOR INFORMATION

[NOT-TR-19-027](#)

Enhancing the Clinical and Translational Science Awards (CTSA) Program

The National Center for Advancing Translational Sciences (NCATS), part of the NIH, seeks comments from all key stakeholder communities on how it can strengthen the CTSA Program to meet its broad scientific mission to improve the efficiency and effectiveness of clinical research and translational science. Possible areas of comment include: barriers and solutions to improve use of basic research findings to inform clinical care; workforce development; community engagement, health disparities, and dissemination; and additional considerations. All comments must be submitted online at <https://grants.nih.gov/grants/rfi/rfi.cfm?ID=90> no later than **October 25, 2019**

[NOT-OD-19-141](#)

Inviting Comments and Suggestions on the Development of a Prize Competition for the Gender Diversity in the Biomedical Research Workforce

NIH’s Office of Research on Women’s Health is seeking feedback on a proposed prize competition that aims to recognize institutions that have demonstrated commitment to systemically addressing faculty diversity and equity issues within the biomedical and behavioral science departments. The goal of this competition is to acknowledge transformative structures, systems, projects and processes that have enhanced faculty gender equity and diversity within an institution. Responses should be submitted electronically to QRWHprize@od.nih.gov no later than **11:59pm ET, October 31, 2019**.

NOTICES OF SPECIAL INTEREST

If you will be applying under any of the special interest topics listed below, please indicate so, including the NIH Notice number in the Comments box of the RAS Questionnaire. The RAS staff will ensure that this information is included with the application to NIH.

[NOT-DA-19-065](#) – **Public Health Research on Cannabis**

NIDA is issuing this notice to encourage grant applications on the effects of changing cannabis laws and policies in the US and globally on public health. Please refer to the NIH notice for the research objectives, as well as the appropriate funding announcements, that are of interest.

[NOT-HL-19-172](#) – **IDEA2Health: Innovative Data Evaluation and Analysis to Health**

NHLBI is seeking applications that will further the novel and broader use of data science methods, and to include team-based approaches in these research efforts. It is hoped that research outputs (i.e., data, metadata, tools, algorithms, program code, tutorials, findings, etc.) could potentially lead to impactful analytic decision-making both at the individual and public health levels. Please refer to the NIH notice for additional information on research objectives and how to apply under this special interest notice.

[NOT-DA-19-066](#) – **Epidemiology of Drug Abuse**

NIDA is interested in studies that efficiently combine the advantages of epidemiological samples with behavioral, laboratory-based, biological, neurobiological, and genetic measures, and that address gender differences and health disparities, as well as projects that have the ability to identify and rapidly disseminate information about newly emerging drug trends. Please refer to the NIH notice for additional information on research objectives and how to apply under this special interest notice.

[NOT-MH-19-039](#) – **High Priority Research Areas for Sex and Gender Influences on the Adolescent Brain and the Mental Health of Girls and Young Women**

Research areas of interest include, but are not limited to: basic and behavioral neuroscience; translational research; interventions development and services research; and HIV/AIDS research. Please refer to the NIH notice for specific topics and how to apply.

NIH FUNDING OPPORTUNITIES

LIMITED SUBMISSIONS

Prior approval from UB 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. As of August 8, 2019, the Limited Submission Program is being managed by Dr. Joseph Balthasar on behalf of the OVPRED. Within the OVPRED, Dr. Balthasar has been appointed Executive Director of Research Initiatives. He may be contacted at jb@buffalo.edu or by phone at 645-3321 for any questions or advice about the limited submission process.

[PAR-19-366 \(K12\)](#) – independent clinical trial not allowed

Institutional Research and Academic Career Development Awards

This award provides support for a mentored postdoctoral research experience combined with an opportunity to develop critical teaching and mentoring skills. Accordingly, the IRACDA program requires effective partnerships between a research-intensive institution and a teaching-intensive partner institution that has a historical mission or a demonstrated commitment to educating students from groups underrepresented in the biomedical research workforce. *Only one application per institute is allowed.* **Application Due Date:** November 13, 2019

[RFA-CA-19-057 \(F99/K00\)](#)

The NCI Predoctoral to Postdoctoral Fellow Transition Award

The objective of this award is to identify and encourage outstanding graduate students who are recognized by their institutions as having high potential and strong interest in pursuing careers as independent cancer researchers, and then to facilitate their successful transition to postdoctoral positions. The F99/K00 award is intended for individuals who require 1-2 years to complete their Ph.D. dissertation research training (F99 phase) before transitioning to mentored postdoctoral research training (K00 phase). Consequently, applicants are expected to propose an individualized research training plan for the next 1-2 years of dissertation research training and a plan for 3-4 years of mentored postdoctoral research and career development activities that will prepare them for independent cancer-focused research careers. *Only one application per institute is allowed.* **Application Due Date:** December 4, 2019

REQUESTS FOR APPLICATIONS (RFA)

REMINDER—October Due Dates

[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, 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 Date:** October 17, 2019

[RFA-AG-20-035 \(R24\)](#) – clinical trial not allowed

Building Resources for the Basic Biology of Aging in Health Disparities Research

This FOA facilitates the development of research networks to advance research on the basic biology of aging in health disparities. The infrastructure-building aspect of this FOA will be to establish collaborations for subsequent research on the biology of aging underlying health disparities. For this FOA, the key human population feature of health disparities is accelerated aging. **Application Due Dates:** October 18, 2019

[RFA-AG-20-022 \(R01\)](#) – clinical trial optional

Aging, Driving and Early Detection of Dementia

This FOA invites applications to conduct new research on automobile technology for signaling early signs of cognitive impairment in older drivers. Two general kinds of research are envisioned: 1. Basic – intended to identify unobtrusive technology for monitoring driving performance and integrating it with other data to detect cognitive impairment, and 2. Methodological - intended to integrate driving-related data (and databases) with data on an individual's health and functional status to detect cognitive impairment. **Application Due Date:** October 22, 2019

[RFA-AG-20-010 \(K76\)](#) – clinical trial not allowed; [RFA-AG-20-011 \(K76\)](#) – clinical trial required

Paul B. Beeson Emerging Leaders Career Development Award in Aging

These FOAs invited early-stage 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 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 Program Director/Primary Investigator (PD/PI) at the faculty level or have otherwise leveraged faculty-level research support to develop an independent line of research.

Application Due Date: October 22, 2019

[RFA-AG-20-006 \(R01\)](#) – clinical trial optional

Interpersonal Processes in Alzheimer's Disease and Related Dementias: Clinical Interactions and Care Partnerships

The goal of this initiative is to support research that can lead to the development of interventions for optimizing communication among patients, caregivers, and healthcare practitioners and for preserving strong and supportive caregiving relationships throughout disease progression along the continuum of care for people with AD/ADRD.

Application Due Date: October 23, 2019

[RFA-AG-20-030 \(R01\)](#) – clinical trial not allowed

Microbiome and Aging: Impact on Health and Disease

This FOA invites projects focused on defining the factors that influence microbiome composition and functional characteristics during aging, understanding how the aging microbiome relates to the causes and pathophysiology of age-related chronic diseases, and development and testing of targeted interventions through diet, drugs, or live organisms. This FOA will accept basic mechanistic, preclinical studies in animal models and human studies leveraging existing human longitudinal cohorts. **Application Due Date:** October 30, 2019

[RFA-NS-19-031 \(P50\)](#) – clinical trial optional

Senator Paul D. Wellstone Muscular Dystrophy Specialized Research Centers (MDSRC)

These Centers promote collaborative basic, translational and clinical research and provide important resources that can be used by the national muscular dystrophy research communities. The Centers also provide outstanding environments for the training of new researchers capable of addressing high priority research objectives in the muscular dystrophies.

Application Due Date: October 31, 2019

November Due Dates

[RFA-HD-20-020 \(R21\)](#) – clinical trial not allowed

Using Archived Data and Specimen Collections to Advance Maternal and Pediatric HIV/AIDS Research

This FOA supports secondary data analyses using archived HIV/AIDS data and specimens to generate new research questions and findings relevant to the scientific mission and priorities of the NICHD, Maternal and Pediatric Infectious Disease Branch (MPIDB) and Office of AIDS Research (OAR). **Application Due Date:** November 1, 2019

[RFA-AG-20-045 \(R61/R33\)](#) – clinical trial required

Tailoring Interventions to Improve Health Service Use

This FOA invites applications to develop interventions for physician compliance with recommended prevention guidelines for older adults from the Centers for Disease Control and Prevention and the US Preventive Services Task Force. Specifically, applicants will develop electronic health record-based interventions to improve quality of care and health outcomes and reduce health disparities. **Application Due Date:** November 4, 2019

[RFA-DA-20-013 \(R01\)](#) – clinical trial optional

PrEP for HIV Prevention among Substance Using Populations

NIDA is interested in research that addresses research gaps related to PrEP and its use among substance users, with the goals of improving PrEP management and implementation. Only one clinical trial has evaluated PrEP among people who inject drugs and systematic data regarding the broader use of PrEP among substance users are limited. There is a need to better understand the effects of substance use on PrEP effectiveness and better inform PrEP implementation among substance users. **Application Due Date:** November 8, 2019

[RFA-OD-18-005 \(K01\)](#) – clinical trial not allowed; [RFA-OD-18-006 \(K01\)](#) – clinical trial required

Mentored Research Scientist Career Development Award in Tobacco Regulatory Research

These FOAs provide support and protected time (three, four, or five years) for an intensive, supervised career development experience in biomedical, behavioral, and social science research that will inform the development and evaluation of regulations on tobacco product manufacturing, distribution, and marketing and that will lead to research independence. **Application Due Dates:** November 8, 2019

[RFA-DA-20-008 \(R01\)](#); [RFA-DA-20-009 \(R21\)](#) – clinical trial not allowed

Leveraging Big Data Science to Elucidate the Mechanisms of HIV Activity and Interaction with Substance Use Disorder

The purpose of these FOAs is to attract data and computational scientists to propose novel ways to integrate data of different types and scales to allow new types of analysis through big data science approaches. It is expected that the development and application of novel computational, bioinformatics, statistical, and analytical approaches can be leveraged to reveal the effects of the interaction of the HIV virus and drugs of abuse on viral activity, latency, and disease progression, as well as new aspects of addiction biology. **Application Due Date:** November 14, 2019

[RFA-AA-20-001 \(P50\)](#) – clinical trial optional

Specialized Alcohol Research Centers

The Specialized Alcohol Research Center provides a mechanism for fostering interdisciplinary cooperation within a group of established investigators conducting exceptional alcohol research. Therefore, existence of a strong research capability is fundamental to the establishment of a new Center or the continuation of an existing Center. A Center should be an identifiable organizational unit within an institutional or organizational structure such as a university, medical center, or a consortium of affiliated cooperating institutions. **Application Due Date:** November 14, 2019

[RFA-AA-20-002 \(P60\)](#) – clinical trial optional

Comprehensive Alcohol Research Centers

This mechanism supports an integrated, broad-based multidisciplinary, multi-investigator, long-term program of research and research support activities planned around a specific major research theme. In addition, a Comprehensive Alcohol Research Center is required to develop an effective information dissemination component to help accelerate the use of research findings for the benefit of public health (Dissemination Core). **Application Due Date:** November 14, 2019

[RFA-DA-20-024 \(UG1\)](#) – clinical trial required

The National Drug Abuse Treatment Clinical Trials Network

This FOA invites applications from clinical investigators to participate in the National Drug Abuse Treatment Clinical Trials Network and contribute to the network's capacity to respond to urgent public health needs. NIDA intends to continue to develop and test interventions for addressing the wide spectrum of substance use problems via collaborative partnerships among NIDA, clinical research investigators, healthcare providers, and healthcare institutions.

Application Due Date: November 15, 2019

[RFA-AI-19-045 \(UM1\)](#) – clinical trial required

HIV/AIDS Clinical Trials Units

Applications are solicited for Clinical Trials Units to provide scientific and administrative expertise as well as the infrastructure to conduct clinical studies developed by NIH HIV/AIDS Clinical Trials Networks. Clinical Trials Units will participate in the development of trials and provide clinical sites, local laboratory capacity, and pharmacy support for two or more HIV/AIDS Clinical Trials Networks. **Application Due Date:** November 18, 2019

[RFA-CA-19-039 \(U01\)](#) – clinical trial optional

Early-Stage Development of Informatics Technologies for Cancer Research and Management

This FOA invites applications for the development of enabling informatics technologies to improve the acquisition, management, analysis, and dissemination of data and knowledge across the cancer research continuum and focuses on early-stage development from prototyping to hardening and adaptation. **Application Due Date:** November 20, 2019

[RFA-CA-19-040 \(U24\)](#) – clinical trial optional

Advanced Development of Informatics Technologies for Cancer Research and Management

This FOA focuses on emerging informatics technology, defined as one that has passed the initial prototyping and pilot development stage, has demonstrated potential to have a significant and broader impact, has compelling reasons for further improvement and enhancement, and has not been widely adopted in the cancer research field.

Application Due Dates: November 20, 2019

[RFA-CA-19-041 \(U24\)](#) – clinical trial optional

Sustained Support for Informatics Technologies for Cancer Research and Management

The focus of this FOA is on sustaining operations and improving the user experience and availability of existing, widely-adopted informatics tools and resources. This is in contrast to early-stage and advanced development efforts to generate these tools and resources that are supported by the companion FOAs.

Application Due Dates: November 20, 2019

[RFA-HD-20-001 \(R24\)](#) – clinical trial not allowed

Data Sharing for Demographic Research Infrastructure Program

This FOA seeks applications to develop a research infrastructure to: promote data sharing; support the development of procedures and technologies for data sharing; disseminate best practices in data sharing; provide a resource that catalogs NICHD-funded data available for secondary analysis; and promote the secondary analysis of data collected through NICHD grants to research teams outside the original grantees. **Application Due Date:** November 29, 2019

January Due Dates

[RFA-CA-19-064 \(R01\)](#) – clinical trial required

Improving the Reach and Quality of Cancer Care in Rural Populations

This FOA encourages two types of applications: (1) observational research that includes intervention pilot testing to understand and address predictors of cancer care/treatment and outcomes in rural low-income and/or underserved populations; or (2) intervention research to address known predictors of cancer care/treatment and outcomes in rural low-income and/or underserved populations. **Application Due Date:** January 15, 2020

[RFA-AG-20-031 \(R25\)](#) – clinical trial not allowed

Research Education: Short Courses on Alzheimer's Disease and Related Dementias for the Behavioral and Social Sciences

This FOA supports short courses geared to behavioral and social scientists who have existing expertise in aging research and can make research contributions in Alzheimer's disease and Alzheimer's disease-related dementias (AD/ADRD) with additional knowledge about the disease and related research resources.

Application Due Date: January 21, 2020

March Due Dates

[RFA-DK-19-019 \(R01\)](#) – clinical trial optional

Food as Medicine: Food Insecurity and HIV-related Comorbidities, Coinfections, and Complications within the Mission of the NIDDK

This FOA seeks US domestic research projects that address how food insecurity effects HIV comorbidities, coinfections, and complications (CCCs) within the mission of the NIDDK. The approaches may address the pathways linking food insecurity and the development or exacerbation of CCCs; or they may evaluate the mechanisms whereby interventions that alleviate food insecurity improve CCCs. These mechanisms could be related to nutritional inadequacies or patient health-related behaviors. **Application Due Date:** March 9, 2020

Multiple Due Dates

[RFA-CA-19-042 \(UE5\)](#) – clinical trial not allowed

Informatics Technology for Cancer Research Education Resource

The UE5 awardee to be supported under this FOA will serve as an ITCR Education Resource for educational activities that will help their participants to enhance the use and usability of the informatics tools and other resources developed and supported by the ITCR program. The courses supporting education in cancer informatics should cover the variety of cancer research domains supported by ITCR tools (<https://itcr.cancer.gov/informatics-tools>).

Application Due Dates: December 19, 2019; July 31, 2020

[RFA-HL-19-025 \(K01\)](#) – clinical trial required; [RFA-HL-19-026 \(K01\)](#) – clinical trial not allowed

Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research

These FOAs are targeted toward individuals whose basic, clinical, and translational research interests are grounded in the advanced methods and experimental approaches needed to solve problems related to cardiovascular, pulmonary, and hematologic diseases and sleep disorders in the general and health disparities populations.

Application Due Dates: February 11, 2020, October 9, 2020, February 11, 2021

[RFA-HL-19-024 \(R25\)](#) – clinical trial not allowed

Short-Term Research Education Program to Increase Diversity in Health-Related Research

The over-arching goal of this program is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce by providing research experiences and related opportunities that enrich the pool of individuals from nationally underrepresented groups who will be available to compete for research opportunities in the mission areas of importance to NHLBI.

Application Due Dates: February 26, 2020, September 10, 2020, February 26, 2021

[RFA-DA-19-019 \(R43/R44\)](#) – clinical trial optional

[RFA-DA-19-020 \(R41/R42\)](#) – clinical trial optional

America's Startups and Small Businesses Build Technologies to Stop the Opioid Crisis

These FOAs invite applications from US small business concerns to develop technologies to provide science-and research-based solutions to the opioid emergency.

Application Due Dates: April 9, 2020, September 8, 2020, April 9, 2021, September 8, 2021

[RFA-CA-19-034 \(P20\)](#) – clinical trial optional

Feasibility and Planning Studies for Development of Specialized Programs of Research Excellence (SPOREs) to Investigate Cancer Health Disparities

The P20 grants will support feasibility and planning activities to build comprehensive cancer health disparities research programs. All applications must propose translational research that will contribute to improved prevention, early detection, diagnosis, and/or treatment of cancers found to disproportionately affect specific racial/ethnic minority populations. **Application Due Dates:** June 19, 2020, and October 18, 2020

[RFA-OD-19-022 \(R21\)](#) – clinical trial not allowed

Secondary Analyses of Existing Datasets of Tobacco Use and Health

This FOA supports research proposing the innovative analysis of existing (publicly available) nationally representative U.S. cross-sectional and longitudinal data, to investigate novel scientific ideas and/or to generate new models, systems, tools, methods, or technologies that have the potential for significant impact on biomedical or biobehavioral research in areas relevant to the Food and Drug Administration (FDA) - Center for Tobacco Products (CTP).

Application Due Dates: July 20, 2020, March 8, 2021

[RFA-OD-19-021 \(R21\)](#) – clinical trial not allowed

Maximizing the Scientific Value of Existing Biospecimen Collections: Scientific Opportunities for Exploratory Research

This FOA invites applications to stimulate exploratory research relevant to the mission of the Food and Drug Administration - Center for Tobacco Products using existing (publicly available) biospecimens currently stored in repositories in the United States. 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:** August 7, 2020, March 8, 2021

[RFA-ES-19-011 \(R21\)](#) – clinical trial not allowed

Mechanism for Time-Sensitive Research Opportunities in Environmental Health Sciences

This FOA supports novel environmental health research in which an unpredictable event or policy change provides a limited window of opportunity to collect human biological samples or environmental exposure data. A distinguishing feature of an appropriate study is the need for rapid review and funding, substantially shorter than the typical NIH grant review/award cycle, for the research question to be addressed and swiftly implemented.

Application Due Dates: Monthly due dates starting November 1, 2019; please refer to the RFA.

Program Announcements Reviewed by an Institute (PAR)

[PAR-19-348 \(R01\)](#); [PAR-19-350 \(R21\)](#) – clinical trial optional

Innovative Approaches to Studying Cancer Communication in the New Information Ecosystem

NCI will support research projects in three distinct domains: 1) the utility and application of new cancer communication surveillance approaches; 2) the development and testing of rapid cancer communication interventions using innovative methods and designs; and 3) the development and testing of multilevel cancer communication models emphasizing bidirectional influence between levels. Applicants should apply communication science approaches to the investigation of behavioral targets and health outcomes related to cancer prevention and control.

Application Due Dates: October 9, 2019; June 10, 2020; October 14, 2020; June 9, 2021; October 13, 2021; June 8, 2022

[PAR-19-352 \(R01\)](#); [PAR-19-355 \(R21\)](#) – clinical trial optional

Intervening with Cancer Caregivers to Improve Patient Health Outcomes and Optimize Health Care Utilization

These FOAs invite applications for intervention research designed to support caregivers of adult cancer patients. Outcomes of such interventions are expected to (1) optimize patient health care utilization, (2) improve caregiver well-being, and (3) improve patient physical health and psychosocial outcomes.

Application Due Date: October 17, 2019, then standard dates

[PAR-19-356 \(R21\)](#) – clinical trial optional

NCI Clinical and Translational Exploratory/Developmental Studies

This FOA supports the development of new exploratory research in cancer diagnosis, treatment, imaging, symptom/toxicity, and prevention clinical trials. **Application Due Dates:** October 18, 2019; February 20, 2020, June 19, 2020; October 20, 2020; February 19, 2021; June 21, 2021; October 20, 2021; February 22, 2022; June 21, 2022

[PAR-19-372 \(R01\)](#) – clinical trial not allowed

Social Epigenomics Research Focused on Minority Health and Health Disparities

This FOA supports human-based epigenomic investigations focused on identifying and characterizing the mechanisms by which social context and experiences at various stages in life, both positive and negative, affect gene function and thereby influence health trajectories or modify disease risk in racial/ethnic minority and other health disparity populations. **Application Due Dates:** November 6, 2019, November 6, 2020, November 8, 2021

[PAR-19-326 \(R21\)](#) – clinical trial optional

Reducing Stigma to Improve HIV/AIDS Prevention, Treatment and Care in Low-and Middle-Income Countries

The overall goals of this FOA are to understand how to reduce stigma as a factor in HIV transmission, to eliminate or mitigate the aspects of stigma that limit beneficial health outcomes, and to conduct exploratory studies to determine the feasibility of stigma-reduction interventions. **Application Due Dates:** November 12, 2019, November 12, 2020

[PAR-19-376 \(R21/R33\)](#) – clinical trial optional

Mobile Health: Technology and Outcomes in Low and Middle Income Countries (LMICs)

This FOA encourages applications that propose to study the development, validation, feasibility, and effectiveness of innovative mobile health (mHealth) interventions or tools specifically suited for LMICs that utilize new or emerging technology, platforms, systems, or analytics. Applicants are required to propose partnerships between at least one U.S. institution and one LMIC institution. **Application Due Dates:** November 19, 2019; September 24, 2020

[PAR-19-367 \(R35\)](#) – clinical trial optional

Maximizing Investigators' Research Award (MIRA)

This award provides support for the program of research in an investigator's laboratory that is within the mission of the NIGMS. NIGMS supports research on basic biological processes as well as translational and clinical research in [certain areas](#). **Application Due Dates:** January 17, 2020; May 18, 2020; January 19, 2021; May 17, 2021; January 18, 2022, May 17, 2022

[PAR-19-325 \(R01\)](#) – clinical trial optional

Clinical Characterization of Cancer Therapy-induced Adverse Sequelae and Mechanism-based Interventional Strategies

This FOA supports collaborative research projects designed to address adverse sequelae of cancer therapies that persist and become chronic comorbidities or develop as delayed posttreatment effects. Research projects should focus on 1) mechanistic studies with translational endpoints; and/or 2) longitudinal clinical phenotyping to identify and validate clinical endpoints (biomarkers, imaging, patient-reported outcomes, or combined elements) for future use in clinical trials that will evaluate the efficacy of interventions designed to prevent or reduce specific adverse sequelae.

Application Due Dates: February 11, 2020; September 30, 2020; February 11, 2021; September 20, 2021; February 11, 2022

[PAR-19-345 \(P01\)](#) – clinical trial optional

NIDA Program Project Grant Applications

This program supports 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; **Expiration Date:** September 8, 2022

[PAR-19-360 \(R01\)](#); [PAR-19-358 \(R21\)](#); [PAR-19-359 \(R03\)](#) – clinical trial optional

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. This research requires expertise in cancer prevention, adult and childhood behavior, immunization promotion, and healthcare delivery.

Application Due Dates: Standard dates apply; **Expiration Date:** July 17, 2022

[PAR-19-368 \(R01\)](#) – clinical trial optional

Accelerating the Pace of Drug Abuse Research Using Existing Data

This FOA invites applications that propose innovative analyses of existing social science, behavioral, administrative, and neuroimaging data to study the etiology and epidemiology of substance using behaviors and related disorders, prevention of substance use and HIV, and health service utilization.

Application Due Dates: Standard dates apply; **Expiration Date:** September 8, 2021

[PAR-19-374 \(U19\)](#) – clinical trial optional

Complex Integrated Multi-Component Projects in Aging Research

This FOA allows for applications that propose large-scale, complex research projects with multiple highly integrated components focused on a common research question relevant to aging. Such projects will likely involve an integrated multidisciplinary team of investigators within a single institution or a consortium of institutions.

Application Due Dates: Standard dates apply; **Expiration Date:** September 26, 2022

[PAR-19-375 \(R03\)](#) – clinical trial not allowed

Small Research Grants for Analyses of Gabriella Miller Kids First Pediatric Research Data

This FOA supports meritorious small research projects focused on analyses of childhood cancer and/or structural birth defects genomic datasets generated by the Kids First program and/or associated phenotypic datasets. Development of approaches, tools, or algorithms appropriate for analyzing genomic, phenotypic, and/or clinical data relevant to Kids First may also be proposed.

FOUNDATION FUNDING OPPORTUNITIES

Reminder - Robert Wood Johnson Foundation is funding new research, [Building Evidence on Nutrition Supports for Low-Income Families with Young Children](#). The Foundation is particularly interested in research on several federal nutrition programs that serve these families, including SNAP, WIC and CACFP. Evidence generated through funded projects should inform practice and policy and guide practitioners and policymakers (federal, state, and local) in setting priorities and allocating resources. **Application Due Date:** **September 24, 2019 (brief proposals)**; December 13, 2019 (full proposals)

