

# SPHHP Research Activities Newsletter

University at Buffalo

March 2019

## IN THE NEWS

### Congratulations to the Following Awardees!



**David Hostler**, Professor and Chair of Exercise and Nutrition Sciences, is PI on a continuation award from the Naval Seas System Command/U.S. Department of Defense, for the project entitled, *Optimizing Performance during Topside Operations and Diving at Altitude*. The study is testing the hypothesis that voluntary isocapnic hyperpnea training will improve exercise performance during acute exposure to a simulated altitude of 12,000 ft. **David Pendergast**, Professor Emeritus of Physiology and Biophysics and Exercise and Nutrition Sciences, is Co-Investigator.



**Ekaterina Noyes**, Professor of Epidemiology and Environmental Health, is Co-I on a new award (PI: Jeffrey Mador, Medicine) from Roswell Park Comprehensive Cancer Center/NIH for the project entitled, *Preoperative Respiratory Muscle Training to Prevent Postoperative Pulmonary Complications Undergoing Resection for Lung Cancer*. The study's objective is to determine how a home-based program designed around strengthening the respiratory muscles will improve postoperative health.



**Sarahmona Przybyla**, Assistant Professor of Community Health and Health Behavior, is PI on a new award from the University of Rochester for the project entitled, *Exploring Determinants of HIV Testing and Pre-exposure Uptake among Young Black or Hispanic Men who have Sex with Men*. The study will survey various socioecological correlates of pre-exposure prophylaxis and HIV testing uptake and frame those determinants into the behavioral economics context to explore potential intervention opportunities.



**Joshua Gordon**, MD/PhD student in the Medical Scientist Training Program, Dept. of Epidemiology and Environmental Health, received a continuation of his fellowship award from the National Heart, Lung, and Blood Institute/NIH for the project entitled *Epidemiologic Evaluation of Risk Factors for Hypertension in Postmenopausal Women: Periodontal Disease, the Oral Microbiome, and Systemic Inflammation*. The study will continue to examine whether the systemic inflammation associated with periodontal disease, edentulism (the complete absence of teeth), and the composition of the oral microbiome is associated with the risk of incident hypertension in postmenopausal women. **Jean Wactawski-Wende**, Dean of SPHHP and SUNY Distinguished Professor of Epidemiology and Environmental Health, serves as faculty sponsor.

*Congratulations to all of the SPHHP faculty who were awarded new grants (as PI or Co-I) in University at Buffalo's 2019-2020 Clinical and Translational Science Institute Pilot Studies Program:*



**Blair Johnson**, Assistant Professor of Exercise and Nutrition Sciences, is PI for the project entitled, *Water Immersion and Objective Biomarkers for Concussion Management*. The study will examine the use of head out of water immersion therapy for concussion management and determine if face cooling and/or the cold pressor test are potential objective biomarkers of concussion.



**Jeff Miecznikowski**, Associate Professor of Biostatistics, is Co-I.

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**Lucia Leone**, Assistant Professor of Community Health and Health Behavior, is Co-I (PI: Stephanie Anzman-Frasca, Pediatrics) for the project entitled, *Improving adherence to a diabetic diet with a grocery shopping intervention*. The study will test novel approaches informed by behavioral economics to promote healthier grocery shopping among diabetic patients.



**Heather Orom**, Associate Professor of Community Health and Health Behavior, is Co-I (PIs: Rebecca Lorenz & Yu-Ping Chang, Nursing) for the project entitled, *The Pathway to Sleep Health Disparities in Middle-aged and Older Adults: The Role of Social Determinants*. The study will examine whether sleep disparities among older adults of different race/ethnicities differ according to geographic regions across the U.S. and compare the sleep disparities and healthcare use among older adults for sleep problems between WNY and other regions in the U.S.

## GRANT CLINIC

### CLICK Grants System: Updates and New Videos

SPS continues to update the CLICK Grants system which is used for all grant submissions. They have made five tutorial videos for reviewers and PIs for various aspects of Click Grants and saved them to the SPS website. The videos are between 2-4 minutes and serve as a brief walk-through of the Grants system. The videos cannot substitute for a full training session, but SPS hopes they can aid most faculty in getting started and navigating the system. Please check out the videos at the link below.

<http://www.buffalo.edu/research/research-services/prepare-and-submit-your-grant-proposal/approval--submission-and-tracking/click-grants-module.html>

### NIH NOTICES

#### NOT-AG-19-007

#### **Notice of Special Interest: High Priority Research Topics for PAR-19-071**

This notice specifies two high priority topics of interest for PAR-19-071, "Research on Current Topics in Alzheimer's Disease and Its Related Dementias (R21)". The two topics of interest are *Capturing Complexity in the Molecular and Cellular Mechanisms Involved in the Etiology of Alzheimer's Disease* and *Deciphering the Glycosylation Code of Alzheimer's Disease*. For additional information, including areas of relevance, please refer to the NIH notice.

### Notices of Intent to Publish a Funding Opportunity Announcement

#### NOT-AA-19-014

Comprehensive Alcohol Research Centers (P60) – clinical trial optional; expected release: Fall 2019; anticipated due date: Fall 2019.

#### NOT-GM-19-019

Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Institutionally-Focused Research Education Award to Promote Diversity; expected release: May 2019; anticipated due date: September 2019.

#### NOT-GM-19-020

Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00); expected release: September 2019; anticipated due date: February 2020

## 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. The limited submission program is managed by Dr. Kenneth Trampusch on behalf of the OVPRED. He may be contacted at [kmt1@buffalo.edu](mailto:kmt1@buffalo.edu) or by phone at 645-3321 for any questions or advice about the limited submission process.

[PAR-19-102 \(T32\)](#)

**Graduate Research Training Initiative for Student Enhancement (G-RISE)**

The goal of this program is to develop a diverse pool of scientists earning a PhD, who have the skills to successfully transition into careers in the biomedical research workforce. This FOA provides support to eligible, domestic institutions to develop and implement effective, evidence-based approaches to biomedical training and mentoring that will keep pace with the rapid evolution of the research enterprise. *One application per institution is allowed.*

**Application Due Dates:** May 21, 2019; May 21, 2020; May 21, 2021

[RFA-CA-19-007 \(UM1\)](#) – clinical trial required

**The Experimental Therapeutics Clinical Trials Network**

This FOA solicits applications from appropriate multidisciplinary groups that can assemble an appropriate infrastructure and conduct phase 0, phase 1, phase 2, pilot and other experimental therapeutics clinical trials involving agents for which the NCI's Division of Cancer Treatment and Diagnosis (DCTD), Cancer Therapy Evaluation Program (CTEP) received IND status. The FOA is open to any qualified applicant regardless of whether they have been previously associated with the ETCTN. *Only one application per institution is allowed.* **Application Due Date:** May 22, 2019

[RFA-DK-18-020 \(P30\)](#)

**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. General information about the NIDDK Diabetes Research Centers program may be found at [www.diabetescenters.org](http://www.diabetescenters.org). *Only one application per institution is allowed.* **Application Due Date:** June 20, 2019

[PAR-19-072 \(R01\)](#) – clinical trial optional

**Data Science Research: Personal Health Libraries for Consumers and Patients**

The National Library of Medicine seeks applications for novel informatics and data science approaches that can help individuals gather, manage and use data and information about their personal health. A goal of this program is to advance research and application by patients and the research community through broadly sharing the results via publication, and through open source mechanisms for data or resource sharing. *Only one application per institute is allowed.* **Application Due Dates:** July 31, 2019

## NIH FUNDING OPPORTUNITIES

### REQUESTS FOR APPLICATIONS (RFA)

#### May Due Dates

[RFA-MH-20-110 \(R01\)](#) – clinical trial not allowed

**Secondary Data Analysis to Examine Long-Term and/or Potential Cross-Over Effects of Prevention Interventions: What are the Benefits for Preventing Mental Health Disorders?**

This FOA encourages research to integrate/harmonize existing data sets from preventive intervention trials implemented early in life to: 1) examine risk and protective factors relevant to later mental health outcomes in childhood, adolescence and young adulthood; and 2) determine whether preventive interventions delivered earlier in life have long-term effects, and/or cross-over effects (e.g., unanticipated beneficial effects), on important mental health outcomes, including serious mental illness. **Application Due Date:** May 2, 2019

[RFA-ES-19-001 \(R01\)](#); [RFA-ES-19-002 \(R21\)](#) – clinical trial not allowed

**Functional RNA Modifications Environment and Disease (FRAMED)**

NIEHS seeks to solicit applications that are focused on how environmental exposures are associated and involved with the functional activities of RNA modifications and pathways that may be modified or misregulated, associated with adverse health outcomes and/or be useful as biomarkers of exposure and/or exposure induced pathologies.

**Application Due Date:** May 16, 2019

[RFA-OD-19-011 \(T32\)](#)

**Predocutorial Training in Advanced Data Analytics for Behavioral and Social Sciences Research (BSSR) - Institutional Research Training Program**

This FOA solicits applications for new Behavioral and Social Sciences Research (BSSR) predoctoral training programs that focus on innovative computational and/or data science analytic approaches and their incorporation into training for the future BSSR health research workforce. **Application Due Date:** May 25, 2019

## August Due Dates

[RFA-CA-19-032 \(R01\)](#) – clinical trial optional

### **Provocative Questions (PQs) in Cancer with an Underlying HIV Infection**

The purpose of this FOA is to continue advancing our understanding of the risks, development, progression, diagnosis, and treatment of malignancies observed in individuals with an underlying HIV infection or AIDS. Provocative Questions in Cancer with an Underlying HIV Infection involves a set of 6 PQs. Each research project proposed in response to this FOA must be focused on addressing one particular research problem defined by one specific PQ selected from the list. Please refer to the FOA for the six PQs. **Application Due Date:** August 1, 2019

## 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 Dates:** October 17, 2019

## Multiple Due Dates

[RFA-ES-16-005 \(R21\)](#)

### **Mechanism for Time-Sensitive Opportunities in Environmental Health Sciences**

This FOA supports 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. **Application Due Dates:** May 1, 2019, June 1, 2019, July 1, 2019, August 1, 2019; September 3, 2019

[RFA-CA-19-019 \(R21\)](#) – clinical trial not allowed

### **Innovative Molecular and Cellular Analysis Technologies for Basic and Clinical Cancer Research**

The emphasis of this FOA is on supporting the development of novel capabilities involving a high degree of technical innovation for targeting, probing, or assessing molecular and cellular features of cancer biology.

**Application Due Dates:** May 28, 2019; September 27, 2019

[RFA-CA-19-020 \(R33\)](#) – clinical trial not allowed

### **Advanced Development and Validation of Emerging Molecular and Cellular Analysis Technologies for Basic and Clinical Cancer Research**

This FOA solicits applications where major feasibility gaps for the technology or methodology have been overcome, as demonstrated with supportive preliminary data, but still requires further development and rigorous validation to encourage adoption by the research community. **Application Due Dates:** May 28, 2019; September 27, 2019

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

### **Innovative Biospecimen Science Technologies for Basic and Clinical Cancer Research**

This FOA solicits applications proposing exploratory research projects focused on the early-stage development of highly innovative technologies that improve the quality of the samples used for cancer research or clinical care. This FOA will support the development of tools, devices, instrumentation, and associated methods to preserve or protect sample integrity, or establish verification criteria for quality assessment/quality control and handling under diverse conditions.

**Application Due Dates:** May 28, 2019; September 27, 2019

[RFA-CA-19-022 \(R33\)](#) – clinical trial not allowed

### **Advanced Development and Validation of Emerging Biospecimen Science Technologies for Basic and Clinical Cancer Research**

This FOA solicits applications proposing exploratory research projects focused on further development and validation of emerging technologies that improve the quality of the samples used for cancer research or clinical care. The overall goal is to support the development of highly innovative technologies capable of maximizing or otherwise interrogating the quality and utility of biological samples used for downstream analyses.

**Application Due Dates:** May 28, 2019; September 27, 2019

[RFA-HL-19-016 \(R43\)](#) – clinical trial not allowed

### **Technologies for Healthy Independent Living for Heart, Lung, Blood and Sleep Disorders**

This FOA seeks applications for the design and development of technologies to monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way for older adults with a chronic heart, lung, blood, or sleep (HLBS) condition. These technologies may be novel sensor or monitoring systems, home-use point-of-care devices, home or mobile therapy or rehabilitation tools, or information systems and should have the goal of fostering healthy and independent living for aging adults with HLBS conditions. **Application Due Dates:** June 10, 2019; June 10, 2020

[RFA-NS-18-043 \(R01\)](#); [RFA-NS-18-042 \(R21\)](#) – clinical trial not allowed

#### **Discovery and Validation of Novel Targets for Safe and Effective Pain Treatment**

These FOAs seek research where the focus is on the basic science discovery of targets in the peripheral nervous system, central nervous system, immune system or other tissues in the body that can be used to develop treatments that have minimal side effects and little to no abuse/addiction liability.

**Application Due Dates:** July 11, 2019; November 12, 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 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:** July 19, 2019, November 8, 2019

[RFA-OD-18-007 \(K99/R00\)](#) – clinical trial not allowed; [RFA-OD-18-008 \(K99/R00\)](#) – clinical trial required

#### **Pathway to Independence Award in Tobacco Regulatory Research**

This award seeks to increase and maintain a strong cohort of new and talented independent investigators conducting research that will inform the development and evaluation of regulations on tobacco product manufacturing, distribution, and marketing. This program is designed to facilitate a timely transition of outstanding postdoctoral researchers with a research and/or clinical doctorate degree from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions. **Application Due Dates:** July 19, 2019, November 8, 2019

[RFA-HL-19-023 \(T32\)](#) – clinical trial not allowed

#### **T32 Training Program for Institutions that Promote Diversity**

This Program is intended to support training of predoctoral and health professional students and individuals in postdoctoral training institutions with an institutional mission focused on serving health disparity populations not well represented in scientific research, with the potential to develop meritorious training programs in cardiovascular, pulmonary, and hematologic diseases, and sleep disorders. **Application Due Dates:** September 4, 2019; February 26, 2020; September 4, 2020; February 26, 2021

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

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

This program supports educational activities that 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:** September 10, 2019, 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:** September 8, 2019, April 9, 2020, September 8, 2020, April 9, 2021, September 8, 2021

[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:** October 10, 2019, February 11, 2020, October 9, 2020, February 11, 2021

## **NIH FUNDING OPPORTUNITIES**

### **PROGRAM ANNOUNCEMENTS REVIEWED BY AN INSTITUTE (PAR)**

[PAR-19-209 \(R01\)](#) – clinical trial optional

#### **Next Generation Multipurpose Prevention Technologies**

This FOA supports the development of new and innovative on-demand, event-driven and long-acting systemic and non-systemic multipurpose prevention technologies (MPT). Specifically, it supports development of MPTs that prevent HIV infection and pregnancy (hormonal and non-hormonal methods); sexually transmitted infections (STI) and pregnancy, and (HIV/STI) and non-HIV STI MPTs in cis and trans males and females of all ages.

**Application Due Dates:** May 6, 2019; May 6, 2020; May 6, 2021

[PAR-19-212 \(R01\)](#); [PAR-19-213 \(R34\)](#) – clinical trial optional

### **Behavioral and Integrative Treatment Development Program**

These FOAs encourage behavioral intervention development research. Research of interest includes, but is not limited to, Stage II and Stage III efficacy research: (1) drug abuse treatment interventions, including interventions for patients with comorbidities; (2) drug abuse treatment and adherence interventions; (3) drug abuse treatment and adherence interventions that utilize technologies to boost effects and increase implementability and sustainability; (4) interventions to prevent the acquisition or transmission of HIV infection among individuals in drug abuse treatment; (5) interventions to promote adherence to drug abuse treatment, HIV and addiction medications; and (6) interventions to treat substance misuse and chronic pain. **Application Due Dates:** July 23, 2019; March 23, 2020; July 23, 2020; March 23, 2021, July 23, 2021, March 23, 2022

[PAR-19-207 \(R25\)](#) – clinical trial not allowed

### **Alcohol and Other Substance Use Research Education Programs for Health Professionals**

The overall goal of this program is to support educational activities, with a primary focus on outreach, that foster a better understanding of biomedical, behavioral, and clinical research on alcohol and other substance use disorders and their implications. **Application Due Dates:** Standard due dates apply; **Expiration Date:** September 8, 2022

## **FUNDING OPPORTUNITIES : ADMINISTRATION FOR COMMUNITY LIVING**

### **National Inst. on Disability, Independent Living, and Rehabilitation Research**

[HHS-2019-ACL-NIDILRR-RTHF-0335](#)

#### **Rehabilitation Research and Training Center (RRTC) on Health and Function of People with Physical Disabilities**

NIDILRR seeks to build on prior investments in health and function research for people with physical disabilities by supporting innovative and well-designed research and training projects that address these critical needs. The RRTC must contribute to maximizing the health and function outcomes of people with disabilities by a) conducting research in one or more of the priority areas; and b) serve as a national resource center related to health and function of people with physical disabilities. **Application Due Date:** May 10, 2019

## **FUNDING OPPORTUNITIES: CENTERS FOR DISEASE CONTROL AND PREVENTION**

### **National Center for Injury Prevention and Control**

[CDC-RFA-CE19-1904](#)

#### **Overdose Data to Action**

This FOA supports recipients in getting high quality, complete, and timelier data on overdoses, and to use those data to inform prevention and response. There are two required components of this award – a surveillance component and a prevention component. Within these two components, there are required and optional strategies to enhance the quality and timeliness of data on overdose morbidity, mortality, and then to use these data to inform and target prevention and response efforts at the state and local level. **Application Due Date:** May 2, 2019

## **FUNDING OPPORTUNITIES: U.S. DEPT. OF JUSTICE**

### **The National Institute of Justice (NIJ)**

#### **16.560 Research and Evaluation in Safety, Health, and Wellness in the Criminal Justice System**

The NIJ is seeking applications for multidisciplinary research projects addressing four topics: (1) the cumulative effects of shift-work schedules, overtime, and secondary employment on the health, safety, performance, and quality of life of police or correctional officers; (2) enhancing strategies for officer interaction with individuals presenting with mental illness; (3) understanding the impact and management of stress, burnout, and vicarious trauma to advance resiliency of the forensic science workforce; and (4) understanding the impact of undercover work on officer wellness.

**Application Due Date:** May 28, 2019

# FUNDING OPPORTUNITIES: FOUNDATIONS

## American Diabetes Association

**Innovative Research Awards** support basic research with novel and innovative hypothesis in any area relevant to the etiology or pathophysiology of diabetes and its complications. Applications proposing high-risk projects with the potential for high-impact results are encouraged, as are studies that may not be sufficiently developed for traditional funding sources. Faculty of any level are eligible to apply. Awards are up to 3 years and a maximum of \$115,000 total costs.

**Innovative Clinical or Translational Science Awards** support research with novel and innovative hypotheses, performed in human subjects, or research approaches to accelerate the transition of scientific discoveries into clinical application. Studies supported with these awards must directly involve human subjects, human samples and/or data, and offer considerable promise for advancing the cure, prevention or treatment of diabetes. Faculty of any level are eligible to apply. Awards are up to 3 years and a maximum of \$200,000 total costs.

**Junior Faculty and Minority Junior Faculty Development Awards** support early investigators as they establish independence as diabetes researchers. Any level faculty up to & including Assistant Professor with less than 10 years research experience beyond terminal degree are eligible to apply. Awards are up to \$138,000 per year for up to four years including indirect costs.

**Postdoctoral and Minority Postdoctoral Fellowships** are available to postdoctoral researchers (MD, MD/PhD, PhD, DVM, or equivalent) to provide support for high quality training in disciplines and topics relevant to diabetes, in an environment conducive to beginning a career in diabetes research. Awards are between \$47,484-\$55,581/year for up to 3 years, plus yearly \$5,000 training and \$5,000 fringe benefit allowances.

If you are interested in applying, more information can be found [here](#).

**Application Due Date:** July 15, 2018.

## The Foundation for Physical Therapy Research

The Foundation supports intervention studies in which the interventions are provided by physical therapists, or selected components of the interventions are provided by physical therapist assistants under the direction and supervision of physical therapists. The Foundation is accepting applications for the following grants in 2019: 1) Health Services Research Pipeline Grant (\$40,000); 2) Foundation Research Grant/Marquette Challenge Grant (\$40,000); 3) Magistro Family Foundation Research Grant (\$100,000); 4) Pediatric Research Grant (\$40,000); 5) Women's Health Research Grant (\$40,000); 6) Georegeny Research Grant (\$360,000). Additional information can be found [here](#).

**Application Due Date:** Applications open online April 10, 2019 and are due August 5, 2019.

## Robert Wood Johnson Foundation

The Robert Wood Johnson Foundation has opened a call for proposals for their "[Evidence for Action](#)" program. The program funds research that expands the evidence base needed to build a Culture of Health. The Foundation supports rigorously designed quantitative, qualitative, and mixed methods research that yields convincing findings regarding the population health, well-being, and equity impacts of specific policies, programs and partnerships. Of interest is research that examines the health impacts of programmatic or policy interventions that address factors outside the domain of health care services or public health practice. If interested in applying, please contact [Don Elick](#) in UB's Corporate and Foundation. **Application Due Date:** LOIs are accepted on a rolling basis.

### **Words to Live By**

***"He can who thinks he can, and he can't who thinks he can't. This is an inexorable, indisputable law."***

**Pablo Picasso, Artist (1881-1973)**

