



# NIH funding opportunities



Faculty of Medicine and Health Sciences: Research Development and Support 13 Mar 2023 (#11)

Confirm your intent to apply **ASAP**, but not later than **60 days** before the submission date.

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**To prepare an application can take 4-18 months, depending on many factors:**

1. Mechanism for which you will apply e.g. U54, R01, D43, K43
2. Requirement of preliminary data
3. Time to assemble the research team
4. Time available to work on the grant, taking into consideration other responsibilities
5. Time for internal review

## Important Notices

**[NOT-OD-23-102](#) Guidance for the Repayment of Grant Funds** The purpose of this notice is to provide updated guidance to NIH recipients who need to return funds in the HHS Payment Management System (PMS) for NIH grant awards that have ended, but funds have not yet expired (e.g., funds obligated from an annual appropriation within 5 years of current fiscal year).

**[NOT-TW-23-003](#) Notice of Information of Fogarty International Center's Participation in the Notice of Special Interest: Administrative Supplements to Promote Research Continuity and Retention of NIH Mentored Career Development (K) Award Recipients and Scholars [NOT-OD-23-031](#)** . The overarching goal of this program is to enhance the retention of investigators facing critical life events who are transitioning from mentored career development awards to research independence and to minimize departures from biomedical research workforce. This supplement program is intended to ensure continuity of research among recipients of mentored career development (K) awards by providing supplemental research support to help sustain the investigator's research during a period in which the PD/PI experiences critical life events which have the potential to impact research progress or potential productivity. Administrative supplements must support work within the scope of the original project. The administrative supplement budget is limited to 1 year. The application budget cannot exceed a maximum direct cost of \$70,000.

**[NOT-TW-23-004](#) Notice of Information of Fogarty International Center's Participation in the Notice of Special Interest (NOSI): Administrative Supplement for Continuity of Biomedical and Behavioral Research Among First-Time Recipients of NIH Research Project Grant Awards [NOT-OD-23-032](#)** The purpose of this Notice of Participation is to add the Fogarty International Center ([FIC](#)) to the list of participating NIH Institutes in the Notice of Special Interest (NOSI, [NOT-OD-23-032](#))

**[NOT-AA-23-005](#) Notice of Intent to Publish a Funding Opportunity Announcement for HIV Prevention and Alcohol (R01 Clinical Trials Optional)**. The National Institute on Alcohol Abuse and Alcoholism (NIAAA) intends to promote a new initiative by publishing a Funding Opportunity Announcement (FOA) to solicit applications to expand the HIV/AIDS prevention toolkit among alcohol impacted populations with a range of patterns of episodic and long-term use and associated behavioral and biological risks for HIV acquisition. This includes integration of effective prevention and treatment interventions with an understanding of the overarching framework for reducing the incidence of new infections by facilitating cross-cutting informative research. This research activity includes the development and testing of new interventions and expansion of existing effective interventions as well as the implementation of these integrative preventive activities in diverse settings and populations. Six areas of research are of primary interest related

to alcohol use and related mental health and substance use comorbidities. These include but are not limited to 1) PrEP Utilization, 2) Treatment as Prevention (TasP), 3) Integration of Preventive Intervention Strategies, 4) Prevention-related Cross-cutting Research, 5) Syndemic Approaches and, 6) Implementation and Operations Research. This Notice is being provided to allow potential applicants sufficient time to develop meaningful collaborations and responsive projects. The award budgets are limited to less than \$500,000 direct costs annually. **First Estimated Application Due Date: June 05, 2023**

**[NOT-AA-23-006](#) Notice of Intent to Publish a Funding Opportunity Announcement for HIV Prevention and Alcohol (R34 Clinical Trials Optional)** The FOA seeks to expand the HIV/AIDS prevention toolkit among alcohol impacted populations with a range of patterns of episodic and long-term use and associated behavioral and biological risks for HIV acquisition. This includes integration of effective prevention and treatment interventions with an understanding of the overarching framework for reducing the incidence of new infections by facilitating cross-cutting informative research. This R34 Funding Opportunity Announcement (FOA) supports studies that are both necessary and sufficient to inform the planning of a clinical trial within the scope of the companion announcement **[NOT-AA-23-005](#)** HIV Prevention and Alcohol (R01 Clinical Trials Optional). **First Estimated Application Due Date: June 16, 2023**

## Notices of Special Interest (NOSI)

**[NOT-AA-23-003](#) Advancing mHealth Interventions for Understanding and Preventing Alcohol-Related Domestic Violence.** In light of the documented increases in both alcohol misuse (among some individuals) and domestic violence (DV) as a result of the global COVID-19 pandemic and array of mandated restrictions enacted to mitigate COVID spread, the purpose of this grant application solicitation is to announce NIAAA's interest in addressing the critical need for research related to developing, testing, and intervening proximal to drinking occasions, when risk of DV is elevated, to decrease the likelihood of alcohol consumption at levels sufficient to trigger DV and to provide skills shown to reduce risk of DV perpetration and victimization. In particular, this solicitation seeks to advance the development, feasibility, acceptability, pilot testing, potential efficacy, and implementation of scalable, low resource, and remotely delivered interventions via mobile devices (*mHealth*) that rely on communication technologies for reducing and preventing alcohol consumption and DV. For this FOA, the term "domestic violence" will extend to child maltreatment (abuse and neglect) and elder abuse, in addition to intimate partner violence (IPV). This notice applies to due dates on or after 5 June 2023 and subsequent receipt dates through 8 September 2026.

**[NOT-CA-23-048](#) Enhancement of external environmental exposure assessment for cancer epidemiology research.** The National Cancer Institute (NCI) is providing the opportunity for supplemental funding to (i) enhance the capture of individual-level environmental exposure information in ways that are efficient, cost-effective, consecutive, and non-burdensome, and (ii) evaluate novel environmental exposure assessment approaches and validate such approaches with that of traditional assessment methods. Administrative supplement applications are limited to currently funded R01, R37, P01, U01, U2C, UH3, U19 projects supported by NCI. Requests for no-cost extensions on the parent grant to accommodate a supplement will not be permitted. PDs/PIs must hold an active award supported through NCI with sufficient time (minimum 1 year) left to complete the study proposed after the supplement has been awarded within the existing project period. The proposed project for supplemental funding is required to be within the scope of the parent award and be a logical extension of the original aims. *Applications will be accepted on a rolling basis between March 13, 2023 and April 21, 2023, at 5:00 PM local time of applicant organization for FY 2023 funding. This NOSI will expire on April 22, 2023.*

**[NOT-DE-23-004](#) National Institute of Dental and Craniofacial Research (NIDCR) Support for Research on the Physiological Involvement of Oral Cavity in Coronavirus Disease 2019 (COVID-19).** The National Institute of Dental and Craniofacial Research (NIDCR) is reissuing this Notice of Special Interest (NOSI) to encourage research studies focused on the physiological involvement of oral cavity and oral manifestations related to SARS-CoV-2 and/or Coronavirus Disease 2019 (COVID-19). The oral/nasal route serves as the SARS-CoV-2 point of entry into the host thus playing a pivotal role in viral spread and COVID-19 onset and disease progression. As such, limiting viral infectivity, replication, shedding, and load at the point of entry is crucial to containing COVID-19 progression, as well as transmission to others. Achieving mucosal immunity to complement and bolster post-vaccination protection, management strategies to address oral manifestations of long COVID are areas at the forefront at this point in the pandemic. With the availability of vaccines, there is an increased need to understand post-vaccination COVID-19 protection at the oral mucosal site. Oral manifestations of long COVID remain largely unexplored. This notice applies

to due dates on or after Oct 5, 2023, and subsequent receipt dates through May 8, 2026. Submit applications for this initiative using one of the FOAs listed in the NOSI

**[NOT-HD-23-006](#) Climate Change and Health Administrative Supplements.** The *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), in partnership with the National Institute of Environmental Health Science (NIEHS), Fogarty International Center (FIC), National Institute of Minority Health and Health Disparities (NIMHD), National Institute of Mental Health (NIMH), National Institute of Nursing Research (NINR), National Heart Blood and Lung Institute (NHBLI), and National Institute of Allergy and Infectious Disease (NIAID) is involved with an NIH-wide [Climate Change and Health Initiative \(CCHI\)](#) with the goals of: reducing the health threats posed by climate change across the lifespan; improving the health equity of people who are at increased risk from or disparately affected by climate change impacts; and building health resilience among individuals, communities, and nations around the world. As a part of this CCHI, the participating Institutes and Centers (ICs) invite applications to supplement active NIH awards to seed new activities and partnerships in climate change and health (CCH) research and research training. We particularly invite applications for supplements to grants that are not currently focused on CCH but wish to include CCH measures and outcomes within the scope of their current research and training specific aims, for example by extending CCH metrics to existing cohorts and studies or by supporting additional CCH areas within broadly defined Center or Hub grants. We will also accept supplement applications to grants already focused on CCH, for example to expand their activities to new populations, modeling activities, exposure measurements, and health outcomes. As administrative supplements, the activities proposed must be within the scope of the parent grant specific aims. Applicants are encouraged to bring in new partners, as needed, who will provide climate science and related expertise and begin to build multidisciplinary teams for future research in this area. The over-arching intent of this solicitation is to: (1) enrich and expand the research community in CCH to include new researchers from multiple disciplines, both in the US and in low- and middle-income countries (LMICs) globally; and (2) conduct research that will create new knowledge to reduce or mitigate health threats attributable to climate change across the lifespan and build health resilience or develop adaptation mechanisms for individuals, communities, and nations around the world, especially among those at increased risk from, or disproportionately affected by, the impacts of climate change. Awardees are expected to seek competing support to continue promising leads from the research supported through the supplement. This supplement opportunity is part of a larger NIH CCH initiative that seeks to build a global community of practice that will work towards trans-disciplinary solutions-driven science to address the serious impacts of climate change on health.

Investigators who are uncertain whether the proposed project qualifies as CCH as defined by NIH, or whether the proposed activities fall within the scope of the parent grant, are encouraged to contact the relevant Point of Contact from the IC supporting the parent award. **Application Due Date** – May 8, 2023, by 5:00 PM local time of applicant organization. Requests may be for one year of support only and the project and budget periods must be within the currently approved project period for the existing parent award. Individual requests can be no more than \$375,000 in direct costs. In addition, requested direct costs cannot exceed the direct costs for the parent grant in the FY23 budget.

**[NOT-HL-23-067](#) Integrative Omics Analysis of National Heart, Lung, and Blood Institute (NHLBI) | TOPMed Data (Parent R01 Clinical Trial Not Allowed).** The symptom-based diagnosis and treatment of heart, lung, blood, and sleep (HLBS) diseases has vastly improved in recent years, yet an understanding of the molecular mechanisms underlying many of these diseases has remained elusive. Furthermore, in most cases the impact of genetic variation on severity of disease and treatment outcomes remains unknown. Therefore, the NHLBI has created the Trans-omics for Precision Medicine (TOPMed) program, which aims to utilize genomics data to characterize a variety of HLBS diseases. Having produced an unprecedented volume of high-throughput data, TOPMed now seeks to turn its attention to effectively leveraging this resource to uncover biological function and disease pathobiology through novel systems biology analyses and the power of artificial intelligence (AI) and Machine Learning (ML). This Notice seeks to garner analysis of TOPMed data and facilitate data analysis tool development. This notice applies to due dates on or after June 5, 2023 and subsequent receipt dates through May 7, 2026. Submit applications for this initiative using the following funding opportunity announcement: [PA-20-185](#) - NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed).

**[NOT-HL-23-079](#) Research Project Grants in Valvular Heart Disease (CAROL Act).** As part of the National Heart, Lung, and Blood Institute's implementation of the Cardiovascular Advances in Research and Opportunities Legacy (CAROL) Act, this Notice of Special Interest is seeking R01 applications that propose research in valvular heart disease. This notice applies to due dates on or after June 5, 2023, and subsequent receipt dates through May 7, 2026. The CAROL Act explicitly encourages research using advanced imaging techniques and research on risk factors for sudden cardiac

arrest or sudden cardiac death from valvular heart disease, most commonly associated with mitral valve prolapse (MVP). However, the Act also encourages research on valvular heart disease more broadly:

- **Registry activities.** Collection of de-identified clinical data (e.g., imaging, omics, electrophysiology, therapy, outcomes, electronic health record data) on individuals with MVP from diverse populations.
- **Data science.** Development of artificial intelligence or machine learning techniques for comprehensive risk assessment and improved phenotypic characterization of individuals with MVP. Development of approaches to enhance diagnostic imaging of individuals with MVP.
- **Basic.** Studies of the mechanisms of fibrosis, inflammation, and ventricular arrhythmia in MVP and of persistent left ventricular dysfunction after mitral valve intervention. Development of relevant animal models and computational models.
- **Clinical.** Comparing mitral valve intervention to watchful waiting in asymptomatic individuals with MVP. Studies to establish ideal intervals for imaging and electrophysiological monitoring and to identify key determinants of outcomes.
- **Omics.** Genomic studies that span the clinical heterogeneity of MVP using multiplex and high-throughput methods. Development of polygenic risk scores for MVP and sudden cardiac death. Development of a molecular atlas of valvular heart disease. Studies that use established NHLBI resources with large-scale human data sets ([TOPMed](#), [BioData Catalyst](#), existing HLBS cohorts).
- **Implementation.** Studies that address the observed disparities across diverse communities and the spectrum of socioeconomic status in diagnosis, management, treatment, and referral of individuals with MVP. Studies of patient preferences for therapy and follow-up.

**[NOT-OD-23-073](#) Administrative Supplements to Enhance Software Tools for Open Science.** This Notice announces the continuing availability of administrative supplements to active awards that have a significant software development component or key role in maintaining software tools of recognized value in biomedical and behavioral research. The goal of these supplements is to enhance the sustainability and impact of research software tools by enabling the use of best practices and design principles in software development and leverage advances in computing in a modern data ecosystem. The supplements are intended to support and encourage collaborations between scientists and software engineers to update, refactor and enhance the design, implementation, and cloud-readiness of research software and build new communities for open science. Through these awards, the NIH [Office of Data Science Strategy \(ODSS\)](#) intends to help researchers who have developed scientifically valuable software to make their tools robust and sustainable, take advantage of new data science, software engineering, and computing paradigms, reach a broader community and contribute to open science. This initiative is aligned with the [NIH Strategic Plan for Data Science](#), which describes actions aimed at building a better data infrastructure and a modernized data ecosystem. Projects to improve design and implementation of significant research tools are sought regardless of the scientific area of emphasis but should not direct effort towards new research functions and must be within scope of the funded parent grant for which the supplement is being sought. To be eligible, the parent award must be able to receive funds in FY2023 (Oct 1, 2022 - Sep 30, 2023) and not be in the final year or in a no-cost extension period as of Sep 30, 2023. The proposed project period cannot extend beyond the parent award. One-year supplement budget requests cannot exceed \$150,000 direct costs. **Application Due Date(s) – May 9, 2023**, by 5:00 PM local time of applicant organization.

**[NOT-OD-23-082](#) Administrative Supplements to Support Collaborations to Improve the AI/ML-Readiness of NIH-Supported Data.** This Notice announces the availability of supplements to active grants which are intended to support collaborations that bring together expertise in biomedicine, data management, and artificial intelligence and machine learning (AI/ML) to make NIH-supported data useful and usable for AI/ML analytics. This initiative is aligned with the NIH Strategic Plan for Data Science, which describes actions aimed at modernizing the biomedical research data ecosystem and making data FAIR (Findable, Accessible, Interoperable, and Reusable) with high impact for open science. For the purposes of this Notice, AI/ML is inclusive of machine learning (ML), deep learning (DL), and neural networks (NN). This opportunity is intended to support collaborations that bring together expertise in biomedicine, data management, and AI/ML to improve the AI/ML-readiness of data generated from NIH-funded research and shared through repositories, knowledgebases or other data sharing resources. NIH is particularly interested in proposals that will advance the ethical development of AI-ready data, and transparent practices that enhance the ethical re-use of data for AI/ML applications. To be eligible, the parent award must be able to receive funds in FY2023 (Oct. 1, 2022 - Sept. 30, 2023). Applicants are strongly encouraged to contact the program officer of the parent award to confirm eligibility. **Application Due Date(s) – May 16, 2023** by 5:00 PM local time of applicant organization.

**[NOT-OD-23-083](#) Administrative Supplement for Research Efforts that Elucidate Fundamental Processes Underlying Behavior Change, Maintenance, and Adherence (Admin Supp Clinical Trial Optional).** The need to develop a comprehensive understanding of how and why humans initiate, adopt, maintain, and sustain behaviors that impede or promote health and wellbeing is well-documented. This NOSI encourages use of behavior change theories and models that use variables that can explain individual and interpersonal mechanisms of action (MOA). When testing theory-based MOAs, operational definitions and measurement approaches with prior evidence of association with behavior change are encouraged. **Application Due Date(s)** – April 3-10, 2023, by 5 PM local time of applicant organization. Requests may be for one year of support only.

## Parent Announcements

Parent Announcements (PA) for unsolicited are broad funding opportunity announcements allowing applicants to submit investigator-initiated applications. They are open for up to 3 years and use standard due dates.

- **[PA-20-185](#)** NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
- **[PA-20-184](#)** Research Project Grant (Parent R01 Basic Experimental Studies with Humans Required)
- **[PA-20-183](#)** Research Project Grant (Parent R01 Clinical Trial Required)
- **[PA-20-200](#)** NIH Small Research Grant Program (Parent R03 Clinical Trial Not Allowed)
- **[PA-20-195](#)** NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Not Allowed)
- **[PA-20-194](#)** NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Required)
- **[PA-20-196](#)** NIH Exploratory/Developmental Research Grant Program (Parent R21 Basic Experimental Studies with Humans Required)

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