Opportunities and Resources for Genomics and Implementation Science

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NATIONAL CANCER INSTITUTE

Division of Cancer Control & Population Sciences

Mission

Advancing research in cancer control and population sciences to eliminate cancer and its consequences for all.

Vision

A world without the burden of cancer.

http://cancercontrol.cancer.gov/

Programs and Offices



Cancer Plan

EIGHT GOALS

- Prevent Cancer
- Q Detect Cancers Early
- Develop Effective Treatments
- nequities
- 🏵 Deliver Optimal Care
- 🙈 Engage Every Person
- 💐 Maximize Data Utility
- Optimize the Workforce

A plan for the National Cancer Program to align broad societal engagement and focus on critical needs to end cancer as we know it.



nationalcancerplan.cancer.gov

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DCCPS Key Cross-Cutting Areas of Focus



https://cancercontrol.cancer.gov/research-emphasis/future-directions



Implementation Science

IS Home Funding Opportunities
Initiatives
Training Research & Practice Tools
About IS

Improving the impact of cancer control and population science on the health and health care of the population, and fostering the rapid integration of research, practice, and policy.



Stay up-to-date on everything from the IS Team @NCI ImplSci



Stay up-to-date on everything from DCCPS LinkedIn





SEARCH

VISION & MISSION

The mission of the IS team at the NCI is to develop and apply the implementation science knowledge base to improve the impact of cancer control and population science on the health and health care of the population, and foster rapid integration of research, practice, and policy.

IS works with the ultimate goal of improving the effect of research on cancer outcomes and promoting health across individual, organizational and community levels.

THE TEAM



The IS team seeks to:

- · Advance the science of implementation
- Integrate implementation science into research across the cancer control continuum to improve the relevance to healthcare systems and population and public health
- Foster engagement among research, practice, and policy stakeholders to systematically improve uptake of evidence and evidence-based interventions

To contact the IS team, email us: NCIdccpsISteam@mail.nih.gov.



The NCI, along with institutes and centers across the National Institutes of Health, supports rigorous, cutting-edge implementation science (also referred to as "dissemination and implementation research") grants through a variety of funding opportunities. The program supports investigator-initiated research grants and sponsors or co-sponsors a variety of targeted notices of funding opportunities (NOFOs). Learn more about these opportunities and find resources for prospective IS applicants.

R01, Dissemination and Implementation Research in Health (PAR-22-105, Clinical Trial Optional)

This funding opportunity provides research project grants to support discrete, specified research projects led by an investigator in a topic area representing his or her specific interests and competencies. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. Applications may not exceed 5 years. R03, Dissemination and Implementation Research in Health (PAR-22-106, Clinical Trial Not Allowed)

This funding opportunity provides small research grants to support the initiation of studies that are generally for preliminary shortterm projects. Applicants for an R03 award may request a project period of up to 2 years and a budget for direct costs of up to \$50,000 per year. While the grant is nonrenewable, there is less competition for these start-up research project funds. R21, Dissemination and Implementation Research in Health (PAR-22-109, Clinical Trial Optional)

This funding opportunity provides grants that are intended to encourage exploratory or developmental research projects by supporting the development of pilot projects or feasibility studies to support creative, novel, and highrisk/high-payoff research. Applicants may request a project period of up to 2 years and the combined budget for direct costs may not exceed \$275,000.

NCI, NCCIH, NHGRI, NHLBI, NIA, NIAAA, NIDA, NIAID, NIAMS, NICHD, NIDDK, NIDCD, NIDCR, NIEHS, NIMH, NIMHD, NINDS, NEI, NINR, ODP, OBSSR, ORWH

NCI, NHGRI, NIA, NIAAA, NICHD, NIDA, NIDCR, NIEHS, NIMH, NINDS, Fogarty, ODP, OBSSR, ORWH NCI, NCCIH, NHGRI, NIA, NIAAA, NIAID, NIAMS, NICHD, NIDA, NIDCD, NIEHS, NIMH, NINDS, NINR, Fogarty, ODP, OBSSR, ORWH

Funding Opportunity Purpose

- Studies to identify, develop, and test strategies for overcoming barriers to the adoption, adaptation, integration, scale-up, and sustainability of evidence-based interventions, programs, tools, treatments, guidelines, and policies.
- Studies to promote equitable implementation of evidence-based interventions among underrepresented communities are encouraged.
- Studies of strategies to stop or reduce ("de-implement") the use of practices that are ineffective, unproven, low-value, or harmful
- Studies to advance implementation research methods and measures



NCI-specific interests

- Strategies to promote sustainability and scale up of effective cancer control interventions across the cancer care continuum and in diverse settings
- Sustainable approaches to coordinate cancer treatment across fragmented systems
- Approaches optimizing survivorship care among oncology and non-oncology providers
- Studies that promote equitable reach and implementation of evidence-based interventions in/with communities and populations experiencing health disparities
- Studies of policy implementation



Sample grants

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NCI Modular R01 Funding Opportunity

- Modular R01s in Cancer Control and Population Sciences (R01 Clinical Trial Optional; PAR-24-122)
- To support research on a broad range of scientific areas within NCI's Division of Cancer Control and Populations Sciences' (DCCPS) mission and portfolio, including but not limited to research in statistical and analytic methods, epidemiology and genomics, cancer survivorship, cancer-related behaviors, healthcare delivery, digital health and data science, and implementation science.
- Direct costs for any year may not exceed \$250,000; Up to 5 years

Patient-Clinician Relationships

- Patient-Clinician Relationship: Improving Health Outcomes in Populations that Experience Health Care Disparities (R01 Clinical Trial Optional; PAR-22-064)
- To support innovative multi-disciplinary and multi-level (e.g., patient, clinician, interpersonal, health care system, community) research designed to understand how optimizing patient-clinician communication and relationship affects health care outcomes in patients from populations with health care disparities.
 - Gain an understanding of how the Patient-Clinician Relationship (PCR) in the primary care and chronic disease care settings affects clinical and non-clinical health outcomes in populations that experience health disparities,
 - Identify best practices and interventions that build and improve PCR leading to better health outcomes and increased health equity

https://grants.nih.gov/grants/guide/pa-files/PAR-22-064.html

Pragmatic Trials Funding Opportunity

- Pragmatic Trials across the Cancer Control Continuum (UG3/UH3 clinical trial required; PAR-22-256)
- Applications are expected to propose to test the effect of a cancer-related intervention on at least one cancer-related outcome representing at least one stage of the cancer control continuum using a pragmatic trial study design.
 - Interventions: behavioral, technology-mediated, community-based, multilevel, implementation strategies
 - Outcomes: Health status, health behaviors, quality of care, *implementation* outcomes
 - Contexts: Communities, healthcare systems, clinics, public health departments

https://grants.nih.gov/grants/guide/pa-files/PAR-22-256.html

- About IS -

Resources

Implementation Science / Resources

AVAILABLE TOOLS AND RESOURCES

Research Tools

Explore research tools that serve to help researchers better understand, plan for, and conduct rigorous dissemination and implementation studies. They help ensure that studies are organized by theories, frameworks, and models; measures; strategies; research methods and study designs; and additional resources (i.e., websites and books).

Research-Practice Partnerships

Explore research-practice partnerships that help integrate evidence-based practices, programs, and interventions into health care and public health settings. The Implementation Science team is actively involved in several partnerships to facilitate and encourage collaboration between research and practice communities.

Practice Tools

Explore research tools that serve to help understand, plan for, and implement evidencebased practices, programs, and interventions into routine health care and public health settings.

Implementation Science Team



David Chambers, DPhil

DEPUTY DIRECTOR FOR IMPLEMENTATION SCIENCE

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interests:

Intervention adaptation/evolvability

- Sasteinability
- Learning fmail/hcare systems
- Implementation research networks.
- De-implementation

Dual Appointed Staff



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Sarah Bruce Bernal, MA PROCEAH ANALYST



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