

Hosted by:
National Institute of Environmental Health Sciences
National Institutes of Health
U.S. Department of Health and Human Services



Why are you interested in this workshop?

Please use the Zoom Q&A feature to tell us about your interests in coming today!



Welcome & Workshop Introduction

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Division of Extramural Research & Training

Population Health Branch

National Institute of Environmental Health Sciences

Overview

- Acknowledgements
- Why are we having this workshop?
- Why does implementation science matter for environmental health?
- Workshop overview





Acknowledgements



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 - Jennifer Alvidrez, ODP
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 - Devan Smith-Brown
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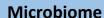
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 - Population Health Branch

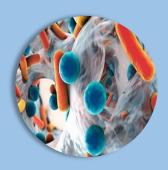




Why are we having this workshop?

Infectious Agents









Agricultural Chemicals, **Pesticides**



Synthetic Materials

Exposures in the physical, built and social environments

Personal Care **Products**

Green Spaces











Disasters and Wildfires



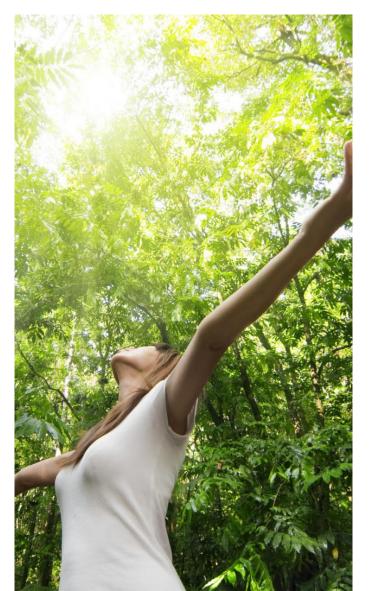








Etiologic Evidence Environmental Exposures Lead to Chronic Disease







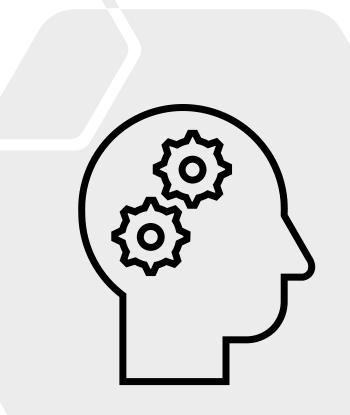




Call to Action: the need for equitable evidence-based interventions...and implementation science

What is Implementation Science?

- "The intervention/practice/innovation is THE THING
- Effectiveness research looks at whether THE THING works
- Implementation research looks at how best to help people/places DO THE THING...
- Implementation strategies are the stuff we do to try to help people/places DO THE THING
- Main implementation outcomes are HOW MUCH and HOW WELL they DO THE THING"



Workshop Goals

- 1. To discuss how implementation science approaches can be used to advance environmental health equity
- 2. To identify research opportunities and gap areas to promote equitable implementation of evidence-based environmental health interventions
- 3. To identify resources, training, and capacity building needs as well as opportunities for collaboration





Why Does
Implementation
Science Matter for
Environmental
Health?

A Case Study of Household Air Pollution (HAP)

Environmental Health *Equity* **Issue**

- WHO: "the forgotten 2.6 billion"
- Almost 4 million premature deaths/year
- Women and young children have the highest rates of exposure
- Climate change impacts black carbon and methane

WHO 22 September 2021: https://www.who.int/news-room/fact-sheets/detail/household-air-pollution-and-health





Why does Implementation Science Matter?

- Clean cooking technology ("the THING") can reduce HAP...but why is "the THING" not being used?
- Clean Cooking Implementation Science
 Network (CC-ISN) examined implementation
 gaps
 - Uptake...
 - Scale-up...
 - And sustainment of "the THING"
- Contextual factors impacting implementation of "the THING"
 - Individual level
 - Community level
 - Societal and policy-levels

CC-ISN examples

- Which community-based participatory research methods most effectively advance uptake of "the THING" in rural India? (Ronzi)
- What are the household, network, and organizational drivers of adoption and sustained use of "the THING?" (Kumar)
- Do conditional cash transfers provide effective financial incentives to increase adoption of "the THING" among pregnant women? (Smith)
- What strategies reduce the use of stacking ("the THING") with polluting stoves? (Pillarisetti)

https://www.fic.nih.gov/About/Staff/Policy-Planning-Evaluation/Pages/clean-cooking-implementation-sciencenetwork.aspx



Community Mobilization for Improved Clean Cookstove Uptake, Household Air Pollution Reduction, and Hypertension Prevention – Olugbenga Ogedegbe R01HL157091

- Low adoption rate of clean cookstoves in Africa
- Community Mobilization (CM) strategy tested in Lagos,
 Nigeria (periurban communities)
- Hybrid Type II design Cluster Randomized Control Trial
 Exploration, Preparation, Implementation and
 Sustainment Framework
- Adoption of clean cooking (primary outcome) improved systolic BP and sustained use of clean cooking (secondary outcomes)





Workshop Overview



Rinad Beidas



Meghan Lane-Fall

Implementation Science – An Introduction

Keynote Address

Panel Discussions

- Setting the Stage
- Environmental Health Science Research Overviews
- Implementation Science Research Opportunities & Capacity Building
- Large Group Discussion –
 Audience Q&A





Veena Singla



Leopoldo Cabassa





Melissa Smarr



Ami Zota



Marion Koso-Thomas Moderator



Rachel Shelton



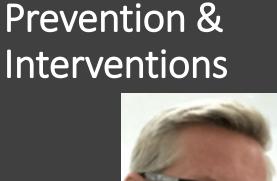
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Community & Multi-

Sectoral Partnerships

Dara Blachman-Demner Moderator



Katrina Korfmacher



Natasha DeJarnett



Glen Mays



Paloma Beamer





Additional Activities - Funding



Overview of Implementation Science Funding Opportunities







Program Staff Q&A

Additional Activities – Next Steps

We want to hear from you!

- Get your smart phones ready!
- What are the research gaps?
- What are the opportunities?
- How can we build implementation science capacity in environmental health?





Welcome! Please keep the conversation going! Lindsey.Martin@nih.gov