

CALIFORNIA
**Breast
Cancer
Research**
PROGRAM

**Compendium of
Awards**

**Cycle 29
2022-2023**

Introduction

The mission of the CBCRP is to prevent and eliminate breast cancer by leading innovation in research, communication, and collaboration in the California scientific and lay communities.

The California Breast Cancer Research Program (CBCRP) is pleased to announce the **funding of 17 new research projects** that will advance our knowledge about the community impact, prevention, etiology, detection, and treatment of breast cancer. With these new awards we are **investing \$4,689,036 for research projects being performed at 17 institutions and community organizations across the state.**

CBCRP supports breast cancer research in California from funds obtained through:

- A portion of a **2¢ per pack State cigarette tax**
- Contributions from individuals using the **State's income tax check-off** option
- **Donations** from concerned community members dedicated to defeating breast cancer

CBCRP is administered by the University of California, Office of the President, in Oakland. Our overall objectives, strategies, and priorities are developed with the assistance of a volunteer California Breast Cancer Research Council (BCRC), which sets program priorities and recommends the grants to be funded. The BCRC consists of 16 members: five are representatives of breast cancer survivor/advocacy groups; five are scientists/clinicians; two are members from nonprofit health organizations, one is a practicing breast cancer medical specialist, two are members from private industry, and one is an *ex officio* member from the California Department of Health Services breast cancer early detection program, "Every Woman Counts."

CBCRP research funding is organized through several sub-program units including:

- **Community initiatives** supports research grants that incorporate both academic researchers and community group investigators to study a problem specific to a community, but with wider dissemination potential.
- **Core funding** focuses on investigator-initiated traditional grants to support smaller, innovative projects, larger translational grants, and conferences.
- **Program Directed Initiatives** support California Breast Cancer Prevention Initiative and Preventing Breast Cancer: Community, Population, and Environmental Approaches projects. These are one-time initiatives that are designed to identify and eliminate environmental causes of breast cancer; identify and eliminate disparities/inequities in the burden of breast cancer in California; develop population-level interventions (including policy research) on known or suspected breast cancer risk factors and protective measures; and develop target interventions for high-risk individuals, including new methods for identifying or assessing risk.

The full abstracts of these newly funded grants, as well as those from previous CBCRP funding cycles, can be found on our website: www.CABreastCancer.org.

Overview of CBCRP Priority Areas

- **The Community Impact of Breast Cancer: The Social Context** explores the factors that contribute to the unequal burden of breast cancer among diverse communities and the policy alternatives that would contribute to reducing disparities in access to prevention, risk reduction, detection, treatment, support, and/or survivorship services for California's underserved populations. Subtopics of this priority area include:
 - Health Policy
 - Health Services
 - Sociocultural, Behavioral and Psychological Issues Relevant to Breast Cancer: The Human Side
 - Disparities: Eliminating the Unequal Burden of Breast Cancer
- **Etiology and Prevention: Finding the Underlying Causes** investigates the causes of breast cancer and the strategies that can be used to prevent it. We are interested in learning about the environmental and biological factors that interact to increase the risk of developing breast cancer and the approaches that can be used to reduce or eliminate breast cancer risk. Subtopics of this priority area include:
 - Etiology: The Role of Environment and Lifestyle
 - Prevention and Risk Reduction: Ending the Danger of Breast Cancer
- **Biology of the Breast Cell: The Basic Science of the Disease** supports research that addresses the critical need to understand the pre-neoplastic, causative events of breast cancer at the tissue level, including the stroma. These studies investigate genetic changes in stem cells and normal tissue as well as disease progression and the tumor heterogeneity at the basic science level. Subtopics of this priority area include:
 - Biology of the Normal Breast: The Starting Point
 - Pathogenesis: Understanding the Disease
- **Detection, Prognosis and Treatment: Delivering Clinical Solutions** supports projects with aims that are on the critical path for translation. They develop novel imaging technologies, new biomarkers, and genomic/proteomic approaches for more accurate diagnosis and prognosis. They are also researching less toxic and more individualized therapies, mechanisms of drug resistance, and studies to evaluate alternative medicines and natural products. Subtopics of this priority area include:
 - Imaging, Biomarkers, and Molecular Pathology: Improving Detection and Diagnosis
 - Innovative Treatment Modalities: Searching for a Cure.

Overview of CBCRP Award Types

CBCRP funded new research projects using a variety of award types:

- **Community Research Collaboration (CRC)** awards bring community organizations—such as breast cancer advocates, community clinics, or organizations serving under-represented women—together with experienced academic scientists to investigate breast cancer problems that are important to that community, using culturally-appropriate research methods. CRC Pilot (18-month) and CRC Full Research awards (three years) are available.
- **Innovative Developmental and Exploratory Awards (IDEAs)** are 12- to 18-month grants for targeted high-risk/high-reward projects. CBCRP incorporates the “critical path” concept, which requires applicants to place their project on a research continuum leading to practical applications. IDEAs are offered to both new and established investigators.
- **Translational Research** awards support projects that overcome barriers and put prior research knowledge to practical use in the patient or community setting.
- **Conference Awards** support a conference, symposium, retreat, or other meeting to link breast cancer researchers, non-breast cancer investigators, and community members for the purpose of stimulating new ideas and collaborations.

- **Program Directed Initiatives** support **Requests for Proposals (RFPs)** that competitively fund investigator-initiated research responding to the California Breast Cancer Prevention initiative topic, **Request for Qualifications (RFQs)** that fund grants based on the qualifications of the investigator to undertake CBCRP-defined research projects in close collaboration with CBCRP and **Program Directed Awards (PDAs)** to fund crucial projects identified during the strategy development proposed by the Steering Committee and approved by the CBCRP Council.

LOI and Application Submissions and Review

IDEA and Translational Research Award applications must pass through a letter of intent (LOI) screening process conducted by our Council to select projects that best meet our award type and programmatic criteria. We view this as a benefit to both the applicants and Program in terms of reducing the effort to prepare full applications and CBCRP's corresponding peer review costs.

Table 1. LOI submission and approval results

Award Type	LOIs submitted	LOIs approved	Percent approved
IDEA	13	9	69%
Translational Research Award	5	3	60%

After the LOI process, the full application data is shown in the table below.

Table 2. 2023 full application submissions by award type and priority issue

Award Type ↓	CBCRP Priority Issue				Award Type Totals
	Etiology & Prevention	Community Impact	Detection, Prognosis & Treatment	Biology of the Breast Cell	
Innovative, Developmental & Exploratory (IDEA)	3	0	3	2	8
Translational Research	0	0	1	0	1
Community Research Collaboration (CRC) Pilot	1	0	0	0	1
Community Research Collaboration Full	1	0	0	0	1
CBCRP Conference	1	0	0	1	2
Policy Initiatives	0	1	0	0	1
Program Directed Initiatives	5	3	0	0	8
Priority Totals	11	4	4	3	22

Funding Highlights

Table 3. 2023 grant distribution by award type

Award Type	Number of Applications	Grants Funded (Success Rate)	Amount Awarded	Percentage of Total Funding
IDEA	8	5 (63%)	\$1,024,590	21.8%
Translational Research	1	0 (0%)	\$0	0%
Community Research Collaboration (CRC) – Pilot	1	1 (100%)	\$187,100	4.0%
Community Research Collaboration (CRC) - Full	1	1 (100%)	\$804,399	17.2%
CBCRP Conference	2	2 (100%)	\$50,000	1.0%
Policy Initiative	1	1 (100%)	\$228,065	4.9%
Program Directed Initiatives	8	7 (88%)	\$2,394,882	51.1%
Total	22	17 (77%)	\$4,689,036	100%

Table 4. 2023 grant distribution by priority issue


Award Type	Number of Applications	Grants Funded (Success Rate)	Amount Awarded	Percentage of Total Funding
Etiology & Prevention	11	10 (91%)	\$3,762,799	80.2%
Community Impact	4	3 (75%)	\$266,828	5.7%
Detection, Prognosis & Treatment	4	2 (50%)	\$439,409	9.4%
Biology of the Breast Cell	3	2 (67%)	\$220,000	4.7%
Total	22	17 (77%)	\$4,689,036	100%

Grants Funded in Cycle 29 2022-2023

Community Initiatives Grants

Grant	Grantee(s)	Total Award
Promotora Training: Reducing Impact of Environmental Toxins on Breast Cancer & Reproductive Health <i>Award type: Community Research Collaboration Award - Pilot</i> <i>Priority Issue: Etiology and Prevention</i>	Janet Pregler UCLA \$93,750	\$187,100
	Luis Pardo Worksite Wellness LA \$93,350	
Wristbands, biomonitoring, and metabolomics to detect nurses' chemical exposure and early effects <i>Award type: Community Research Collaboration Award - Full</i> <i>Priority Issue: Etiology and Prevention</i>	Rachel Morello-Frosch UC Berkeley \$766,948	\$622,851
	Lisa Hartmayer Breast Cancer Prevention Partners \$37,451	

Core Funding Grants

Grant	Grantee(s)	Total Award
Achieving Equity in Genomic Testing for Breast Cancer through Partner-Led Strategies and Policies <i>Award type: Policy Initiative</i> <i>Priority Issue: Community Impact of Breast Cancer</i>	Manali Patel Stanford University	\$228,065
An activated stem cell signature as a biomarker to predict malignant progression of DCIS <i>Award type: CBCRP Conference Award</i> <i>Priority Issue: Etiology and Prevention</i>	Luis Pardo Worksite Wellness LA	\$25,000
Advocates and scientists partner to strengthen US testing of chemicals that can affect breast health <i>Award type: CBCRP Conference Award</i> <i>Priority Issue: Etiology and Prevention</i>	Michelle Woodhill Dr. Susan Love Research Foundation	\$25,000
 Arming macrophages to eliminate triple negative breast cancer stem cells <i>Award type: IDEA Award</i> <i>Priority Issue: Detection, Prognosis and Treatment</i>	David Cheresh UC San Diego	\$205,000
Assessing effectiveness and toxicity of FLASH radiotherapy in breast cancer care <i>Award type: IDEA Award</i> <i>Priority Issue: Detection, Prognosis and Treatment</i>	Frederick Dirbas Stanford University	\$234,409



Assessing environmental & social factors influencing breast cancer prevention in Latina farmworkers
 Award type: IDEA Award
 Priority Issue: Etiology and Prevention

Nicolas Lopez-Galvez
 San Diego State University
 Research Foundation \$235,750

Inflammatory biomarkers and risk of second breast cancer in a diverse population
 Award type: IDEA Award
 Priority Issue: Detection, Prognosis and Treatment

Esther John
 Stanford University \$154,431

Small RNAs that mediate DNA damage repair as a new target for breast cancer prevention
 Award type: IDEA Award
 Priority Issue: Biology of the Breast

Jennifer Rosenbluth
 UC San Francisco \$195,000



Denotes awards that have been supported in part through voluntary contributions from California taxpayers



Denotes Faith Fancher Research Award recipient. [Faith Fancher](#) was a long-time television news anchor and personality with KTVU (Oakland) who waged a very public battle against breast cancer. She also was the founding member of the CBCRP Executive Team, which formed in 2001 to help raise the visibility and fundraising profile of our program. Faith passed away in October 2003 after a six-year struggle with breast cancer. In Faith's honor, and to commemorate all that she did for breast cancer education and research, we have created this annual award. The selected grant reflects the values that Faith held most closely and extends the work that Faith did for all women facing breast cancer.

Program-Directed Research

Grant	Grantee(s)	Total Award
<p>The pregnancy exposome and metabolome and risk for premenopausal breast cancer (PMBC) in Black women Award type: Program Directed Initiative – Biomonitoring Priority Issue: Etiology and Prevention</p>	<p>Kimberly Berger Sequoia Foundation</p>	\$622,851
<p>Parental and grandparental exposome and breast cancer biomarkers in daughters and granddaughters Award type: Program Directed Initiative – Biomonitoring Priority Issue: Etiology and Prevention</p>	<p>Barbara Cohn Public Health Institute</p>	\$546,439
<p>Biomonitoring a new pathway to breast cancer: Effects of steroidogenic chemicals on the metabolome Award type: Program Directed Initiative – Biomonitoring Priority Issue: Etiology and Prevention</p>	<p>Rachel Morello-Frosch UC Berkeley</p>	\$622,017



Detect Signs of Early Life Exposures in Midlife to Prevent Breast Cancer Inequities

Award type: Program Directed Initiative – Early Life Exposure
Priority Issue: Etiology and Prevention

Barbara Cohn'
Public Health Institute
\$500,083

Akilah Shaid
Public Health Institute
\$34,104

Leveraging Community Assets to Reduce Financial Toxicity among Hispanic Breast Cancer Survivors

Award type: Program Directed Initiative – Local Level Needs
Priority Issue: Community Impact of Breast Cancer

Eunjeong Ko
San Diego State University
\$14,830

Michelle Avila
Kern County Cancer Foundation
\$6,433

Breast Health and the Environment Among Latinas in Los Angeles: Mapping Disparities and Systems

Award type: Program Directed Initiative – Local Level Needs
Priority Issue: Etiology and Prevention

Jill Johnston
University of Southern California
\$22,375

Nancy Ibrahim
Esperanza Community Housing
\$8,250

East Oakland's 40x40: Building integrative place-based approaches to achieve health equity

Award type: Program Directed Initiative – Local Level Needs
Priority Issue: Community Impact of Breast Cancer

Mindy Hebert-Derouen
UC San Francisco
\$6,500

Jamaica Sowell
Roots Community Health Center
\$5,500

Antwi Akom
San Diego State University
\$5,500



Denotes awards that have been supported in part through voluntary contributions from California taxpayers

2023 CBCRP Funding by Institution

The following 17 California research institutions and community organizations were awarded new CBCRP funding in the 2022-2023 grant cycle. Community Research Collaboration (CRC) as well as Local Level Needs and Early Life Exposure Program Initiative projects are split between institutions.

<u>Institution</u>	<u># of Grants</u>	<u>Amount</u>
Breast Cancer Prevention Partners	1	\$37,451
Dr. Susan Love Research Foundation	1	\$25,000
Esperanza Community Housing	1	\$8,250
Kern County Cancer Foundation	1	\$6,433
Public Health Institute	3	\$1,080,626
Roots Community Health Center	1	\$5,500
San Diego State University	1	\$14,830
San Diego State University Research Foundation	1	\$235,750
San Francisco State University	1	\$5,500
Sequoia Foundation	1	\$622,851
Stanford University	3	\$616,905
University of California, Berkeley	2	\$1,388,965
University of California, Los Angeles	1	\$93,750
University of California, San Diego	1	\$205,000
University of California, San Francisco	2	\$201,500
University of Southern California	1	\$22,375
Worksite Wellness LA	2	\$118,350

2023 CBCRP application evaluation process & review committee rosters

CBCRP thanks the participants in our 2023 review committees for their service and dedication to our Program!

In the first phase of the funding process, grant applications were peer reviewed and scored for scientific merit by review committees using a model that follows established practice at the National Institutes of Health (NIH). Each committee is composed of scientists and advocates from outside California. The Committee Chair leads the review process and is a senior researcher. Scientific Reviewers have broad expertise in topics associated with individual applications. Breast cancer Advocate Reviewers are women active in breast cancer advocacy organizations, and many of them are also living with the disease. Advocates bring their personal knowledge and commitment to the review process. Each committee also includes a California Advocate Observer, who does not review or vote, but represents California's advocacy community. The observer gains insight into our process and provides feedback to the Program. When additional expertise is needed, an Ad Hoc Member is brought in to review a particular application not covered by the other committee scientist reviewers.

CBCRP uses a scientific **merit scoring system** that rates individual components (e.g., approach, innovativeness, impact). This allows our expert reviewers and Council to better differentiate applications that might otherwise appear identical. We use four scientific merit components to comprise the score.

We **triage** some applications that score in the lower range of a committee's portfolio using the preliminary scores of the assigned reviewers. Applications in the upper range of a committee's portfolio all receive full committee discussion, as do any of the lower scoring applications nominated to full review by one reviewer.

Applications that were not triaged were rated by CBCRP's Council for **programmatic responsiveness**. Combinations of the following criteria were used:

- Responsiveness to CBCRP's priority issues and award type or initiative
- Strength of individual scientific merit component scores (e.g., innovation for IDEA applications)
- Underfunded topic
- Quality of the lay abstract
- Inclusion of advocates in the funded research
- Addressing the needs of the underserved
- Critical path/translation (IDEA and Translational Research Award), or dissemination and translational potential (CRC)

This two-tiered evaluation and funding process ensures both scientific excellence and relevance of the research to CBCRP's mission and goals.

Community Impact Review Committee

Co-Chairs:

Vernal Branch
Patient Research Advocate
Mooresville, NC

Phoenix Matthews, PhD
Professor and Associate Dean for Equity and Inclusion
University of Illinois
College of Nursing
Chicago, IL

Scientific Reviewers:

Sherrie Flynt Wallington, PhD
Associate Professor of Nursing and Prevention and Community Health
School of Nursing
George Washington University
Washington, DC

Ella Greene-Moton
Community Director
Flint Center for Health Equity Solutions
SEPA - Community Activities Manager
Center for Public Health and Community Genomics
University of Michigan School of Public Health
Ann Arbor, MI

Grace Sembajwe, ScD, MSc, CIH
Associate Professor
Institute of Health System Science, Feinstein Institutes for Medical Research
Epidemiologist
Department of Occupational Medicine Epidemiology and Prevention
Donald and Barbara Zucker School of Medicine at Hofstra/Northwell
Northwell Health
Great Neck, NY

Advocate Reviewers:

Beverly Parker
Living Beyond Breast Cancer
Ardmore, PA

California Advocate Observer:

Stephanie Beverly Smith
Program Director
Women of Color Breast Cancer Survivors' Support Project
Inglewood, CA

Clinical, Prevention & Biological Sciences Review Committee

Chair:

Douglas Yee, MD

Director, Masonic Cancer Center
Professor of Medicine & Pharmacology
University of Minnesota
Minneapolis, MN

Scientific Reviewers:

Dai Horiuchi, PhD

Assistant Professor of Pharmacology
Robert H. Lurie Medical Research Center
Northwestern University
Chicago, IL
Minneapolis, MN

Amos Sakwe, PhD, MSCI

Associate Professor
Department of Pharmacology
School of Graduate Studies and Research
Center For Women's Health Research
Meharry Medical College

Eva Sevick-Muraca, PhD

Professor, Nancy and Rich Kinder Distinguished
Chair of Cardiovascular Disease Research
Professor and Director Center for Molecular
Imaging National Cancer Institute Network for
Translational Research
McGovern Medical School
University of Texas Health Science Center at
Houston
Houston, TX

Julie Ostrander, PhD

Assistant Professor
Department of Radiation Oncology
The Ohio State University
Columbus, OH

Adetunji Toriola, MD, PhD

Professor of Surgery
Division of Public Health Services, Department of
Surgery
Washington University School of Medicine
St. Louis, MO

Advocate Reviewers:

Ann Fonfa

Annie Appleseed Project
Delray Beach, FL

Valerie Fraser

Michigan Breast Cancer Coalition
Huntington Woods, MI

California Advocate Observer:

Rainbow Rubin

Breast Cancer Prevention Partners
San Francisco, CA

Local Level Needs and Intergenerational Transmission Review Committee

Co-Chairs:

Rodney Lyn, PhD

Interim Dean, Professor
Senior Associate Dean for Academic and
Strategic Initiatives
Georgia State University
School of Public Health
Atlanta, GA

Ella Greene-Moton

Community-Academic Bridge
Community Based Organization Partners
Community Ethics Review Board, Administrator
Health in Our Hands – MSU, Executive Consultant
American Public Health Association, President Elect
Ann Arbor, MI

Reviewers:

Traci Bethea, PhD

Assistant Professor,
The Lombardy Comprehensive Cancer Center
Georgetown University Medical Center
Washington, DC

Nikia Hammonds Blakeley, PhD, MBA

Founder and Executive Director
The CHAMPION Promise Foundation
Frisco, TX

Leena Hilakivi-Clarke, PhD

Professor, Assistant Director for Faculty Affairs
The Hormel Institute
University of Minnesota
Austin, MN

Grace Sembajwe, ScD

Associate Professor
Feinstein Institute for Medical Research at Northwell Health
Hofstra University
Helmstead, NY

Bo Qin, PhD

Assistant Professor
Rutgers Cancer Institute of New Jersey
Rutgers University
New Brunswick, NJ

Program Initiatives – Biomonitoring Review Committee

Chair:

Suzanne Fenton, PhD

Staff Scientist

NIEHS Mechanistic Toxicology Branch

Durham, NC

Reviewers:

Susan Braun, PhD

Advocate

Ex Jimmy V Foundation

Cary, NC

Justin Colacino, PhD

Associate Professor, Environmental Health Sciences

University of Michigan

School of Public Health

Ann Arbor, MI

Agnes Kane, MD, PhD

Professor Emerita of Pathology and Laboratory Medicine

Brown University

Providence, RI

Maricel Maffini, PhD

MvM Consulting

Frederick, MD

Melissa Troester, PhD

Professor

Department of Epidemiology

University of North Carolina

Billings School of Public Health

Chapel Hill, NC

Laura Vandenberg, PhD

Professor

University of Massachusetts, Amherst

School of Public Health, Division of Environmental Health Sciences

Amherst, MA

Policy Initiative – Genomic Testing Review Committee

Chair:

Mary Beth Terry, PhD

Professor, Mailman School of Public Health
Columbia University
New York, NY

Reviewers:

J. Zoe Beckerman, JD MPH

Associate Professor
Milken Institute School of Public Health
The George Washington University
Washington, DC

Taylor Beaumont Morton

Director of Environmental Health and Education
WE ACT for Environmental Justice
New York, NY

Joel Tickner, PhD

Professor, Department of Public Health
Lowell Center for Sustainable Production
University of Massachusetts, Lowell
Lowell, MA

Alexandra White, PhD MSPH

Stadtman Investigator
Environment and Cancer Epidemiology
NIEHS
Durham, NC

Tracy Weitz, PhD

Professor
Center on Health, Risk and Society
American University
Washington, DC

CBCRP Policy Research Advisory Group Review Committee

ADVOCATES

Representatives of breast cancer advocacy organizations

Nancy Buermeyer, MS

Senior Policy Strategist
Breast Cancer Prevention Partners
San Francisco, CA

Karren Ganstwig

Los Angeles Breast Cancer Alliance
Toluca Lake, CA

JoAnn Loulan

Breast Cancer Action
Portola Valley, CA

POLICYMAKERS

Current and former legislators, legislative staff, and government officials

Rick Kreutzer, MD

Assistant Deputy Director of Environmental and Occupational Health (retired)
California Department of Public Health
Oakland, CA

POLICY PROFESSIONALS

Representatives of organizations involved in health policy

Garen Corbett, MS

Director, California Health Benefits Review Program
University of California Berkeley
Berkeley, CA

Sarah Huchel

Legislative Director, Health Services and Sciences
State Government Relations
University of California Office of the President
Sacramento, CA

Georgette Lewis

Senior Advisor for Policy and Strategy
University of California Health
Oakland, CA

Usha Ranji, MS

Associate Director, Women's Health Policy
Kaiser Family Foundation
Menlo Park, CA

Catherine Peters

Director, State and Local Campaigns
American Cancer Society Cancer Action Network
Waukesha, WI

CBCRP Council Policy Committee Members

Rati Fotedar, PhD

San Diego Community College District

Bryan Goldman, DO

Kaiser Baldwin Park Medical Center

Christine Meda, MS

IncelDx, Inc.

Svetlana Popova, MD, MPH

Every Women Counts Program

California Breast Cancer Research Council Programmatic Review Committee

Advocates

Abigail Arons, MPH
Breast Cancer Action

Michele Atlan
Breast Cancer Care and Research Fund

Erika Bell
Bay Area Cancer Connections

Phyllis Howard
Women's Cancer Resource Center

Yamini Ranchod, PhD
Bay Area Young Survivors (BAYS)

Nonprofit Health Organization Representatives

Amanda Heier
Breast Cancer Prevention Partners

Clara Omogbai, DrPH
California Health Collaborative

Medical Specialist
Ujwala Rajgopal MD, FACS, FICS
MD Professional Corporation

Industry Representatives

Christine Meda, MS
IncelDX, Inc.

Thomas Jascur, PhD
Invitae

Scientist/Clinicians

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San Diego Community College District

Bryan Goldman, DO
Kaiser Baldwin Park Medical Center

Ana Navarro, PhD
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Sharon Pitteri, PhD
Stanford University

Salma Shariff- Marco
University of California, San Francisco

Ex Officio

Svetlana Popova, MD, MPH
Every Women Counts Program

California Breast Cancer Research Program Staff

Marion Kavanaugh-Lynch, MD, MPH
Director

Lisa Minniefield
Program Specialist

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CORE FUNDING
Katherine McKenzie, PhD

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Sharima Rasanayagam, PhD

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