

Novel Approaches to Predict or Prevent the Influences of Environmental Chemicals on Breast Cancer Risk

Informational Webinar for Prospective Applicants

Agenda

- The California Breast Cancer Research Program (CBCRP)
 - CBCRP Program-Directed Initiatives
 - Preventing Breast Cancer Initiatives (PBC)
- Novel Approaches to Predict or Prevent the Influences of Environmental Chemicals on Breast Cancer Risk (Biomonitoring)
 - Overview
 - Research Questions, Topics and Requirements
 - How Grants are Evaluated
 - Important Dates
- Resources for Submitting an Application in SmartSimple

California Breast Cancer Research Program (CBCRP)

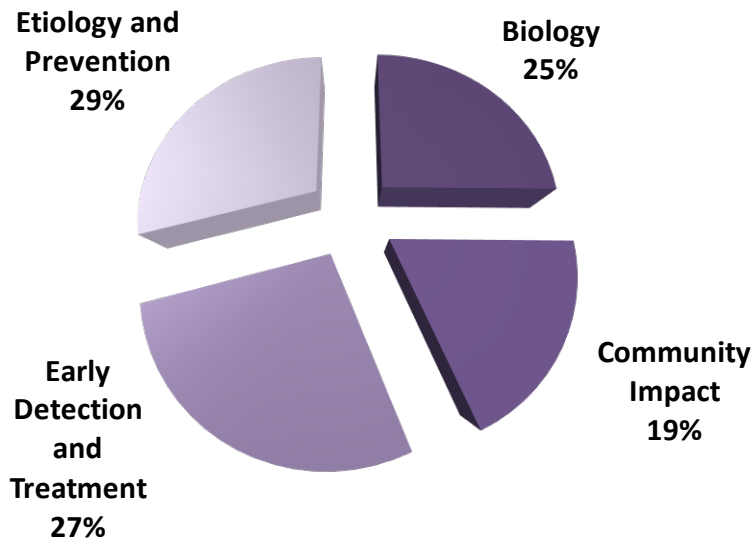
- Founded in 1993
 - breast cancer activists, scientists, clinicians, state legislators, and University of California officials collaborated to win passage in the state legislature of the California Breast Cancer Act.
 - funded by a tax on tobacco products, voluntary state personal income tax form check-off, and individual contributions.
 - tax check-off has drawn over \$13 million for breast cancer research.
- Grown to become one of nation's largest state-funded breast cancer research effort
- Among the largest breast cancer research funders in the world
- Ninety-five percent of our revenue goes directly to funding research and education efforts

Mission: to prevent and eliminate breast cancer by leading innovation in research, communication, and collaboration in the California scientific and lay communities



Since 1994, CBCCRP has funded

- Over 1,200 grants
- Totaling over \$290 million
- To over 840 academic & community researchers
- At over 140 institutions across the state



Program-Directed Initiatives

Vision

To identify and support research strategies that increase understanding of, and **create solutions to**, environmental links to breast cancer and fundamental causes of health disparities in breast cancer.

Goals

- Support a coordinated statewide effort to explore innovative ideas and new theories
- Leverage California's unique and diverse geographic and population resources
- Undertake critical studies that significantly move these fields forward

First round launched in 2004; second round in 2010

Preventing Breast Cancer (PBC):

Community, Population, and Environmental Approaches

In 2015

CBCRP's Council approved a third round of Program Initiatives, devoting 50% of funds (~\$20 million) to:

- Identify and eliminate **environmental contributors** to breast cancer
- Identify and eliminate fundamental causes of **health disparities** with a focus on breast cancer in California
- Develop and test **population-level prevention interventions** that incorporate approaches to address the needs of the underserved and/or populations experiencing disparities in the burden of breast cancer

In 2020 and 2021

CBCRP's Council approved 10 concept proposals to stimulate research in these three areas, including:

- Novel Approaches to Predict or Prevent the Influences of Environmental Chemicals on Breast Cancer Risk (Biomonitoring Initiative)

Biomonitoring Initiative Overview

Overall Aim: To expand the methods and application of biomonitoring beyond the chemicals, populations, and mechanistic pathways that have been well-studied so far and to explore two topic areas:

1. biomonitoring and links to biological response endpoints in exposed populations; and
2. the development/ discovery and application of a novel assay or marker to predict/ prevent risk of breast.

Biomonitoring Initiative Overview

Available Funds:

CBCRP intends to fund up to three proposals for a maximum duration of three years and \$430,000 maximum total direct costs each.

Eligibility:

- Any individual or organization in California may apply.
- The research must be conducted primarily in California.

Biomonitoring Initiative

Research Questions

Applications are encouraged to address the following:

- A. Expand the scope of inquiry in biomonitoring science beyond well-recognized and well-studied chemical exposures (such as estrogen-mimics) by identifying and characterizing chemical exposures with relevant biological activity linked to breast cancer.
- B. Characterize metabolome/exposome-related shifts associated with breast disease and mammary development using non-targeted analytic or artificial intelligence methods.
- C. Elucidate functional pathways linking exposure to biological response markers and disease, for spurring action based on human exposure

Topic 1 – Biomonitoring in Exposed Populations

- Conduct biomonitoring in populations exposed at high levels to chemicals of interest for breast cancer and use metabolomics or other -omics to identify associations between the exposure and early biological effects.
- The study should be carried out with relevant female cohorts that have existing chemical exposure data or biospecimens that can be leveraged for such a biomonitoring of exposure/biological response project.
- The study should focus on measurements of endogenous processes that are breast-cancer-relevant, as identified by Schwarzman et al. 2015 and other CBCRP chemical testing grantees (see Appendix A), or recently discovered cancer biomarkers such as exosome miRNA.
- Projects associated with predictive value on breast cancer risk for current use chemicals will be more favorable than research on chemicals banned many years ago.

Topic 2 – Develop/discover and apply a novel assay

Examples may include:

- Develop in vitro or short-term in vivo assays to detect biological activities associated with the characteristics of carcinogenic chemicals in mammary tissue.
- Develop a measurement of environmentally relevant mixtures, including vehicle exhaust, diesel, pesticide residues, indoor air (occupational setting), or air pollution that is more interpretable with respect to exposure source and biological effects than current tools.
- Discover novel biomarkers linking disease and exposures using artificial intelligence or other bioinformatic tools (pattern recognition or cross-species or cross-strain similarities/differences in existing datasets) and test its predictive potential for breast cancer in animal or cell-based studies

Biomonitoring Initiative Dissemination Plan

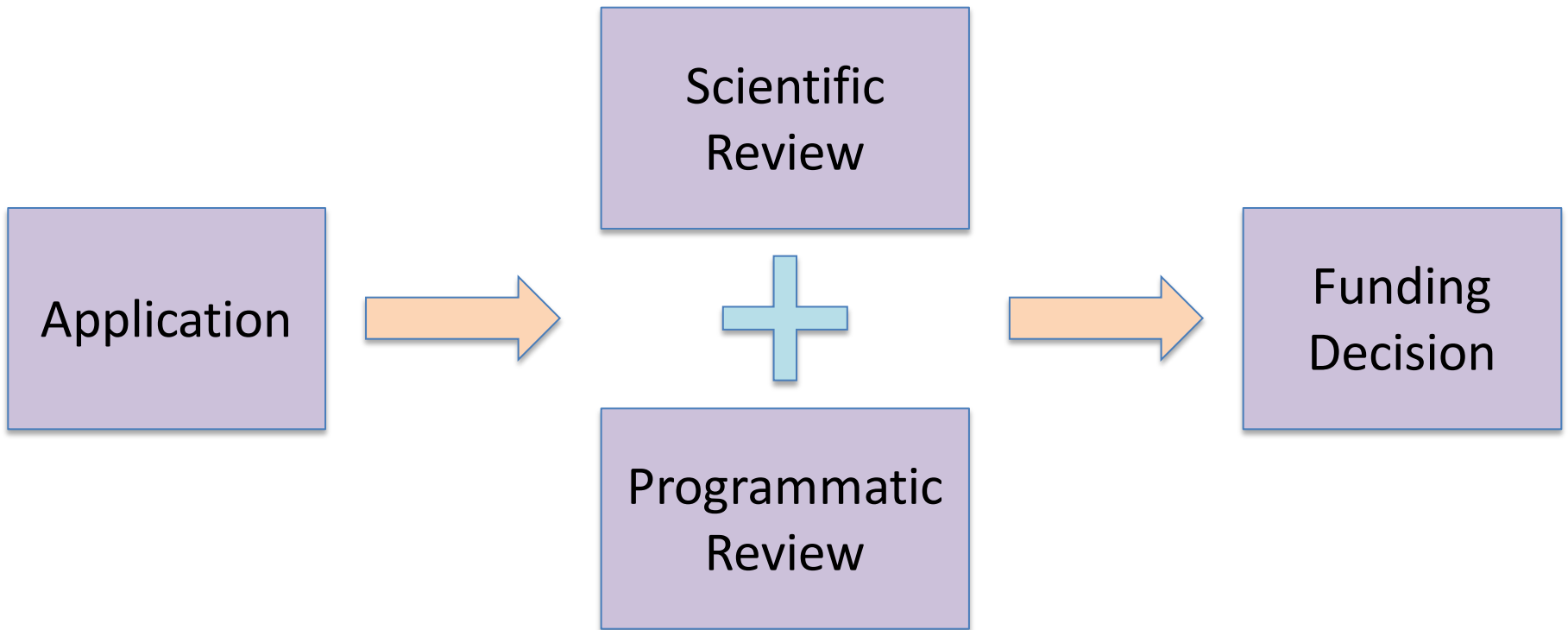
- Proposals must include plans for dissemination and translation of newly discovered/developed methods and results.
- The applicants should address the likely relevance to both future research and current policy discussions.
- The applications should include plans to disseminate results to breast cancer advocates, policymakers, and the larger public, beyond publication in the scientific literature.
- The project team's community advocate(s) should play a substantive role in formulating and helping carry out the proposed dissemination plan.

Biomonitoring Initiative

Advocacy Involvement Requirement

- Advocacy involvement is a requirement for the research funded under this initiative.
- Applications should include a California community advocate affiliated with an advocacy and/or community organization with an interest in the area of biomonitoring, environmental exposures and breast cancer.
- The community advocate(s) should be involved in the development of the project, goals, aims, and research questions and should drive the identification and definition of community needs and health equity imperatives.
- Applications will be evaluated on advocate involvement:
 - identification of an appropriate advocate for the proposed research
 - a detailed description of how the advocate will be involved in the project
 - submission of a Letter of Commitment co-signed by advocate and the PI
 - a budget line item and justification covering the advocate time, effort, and expenses on the project (e.g. at least quarterly, in-person meetings)
- Additional resources:
 - Learn more about CBCRP's approach and view relevant resources: cbrp.org/approach/advocacy-involvement
 - CBCRP staff are available to consult with applicants, if needed, about meeting the advocacy requirement

Two-Tier Evaluation Process



Biomonitoring Initiative Review Criteria

	Criteria
Scientific Review	<ul style="list-style-type: none">• Innovation• Impact• Approach• Feasibility
Programmatic Review	<ul style="list-style-type: none">• Responsiveness• Critical path/Translation• Lay Abstract• Addressing the needs of the underserved• Advocacy Involvement

Application Components

Form/Attachment	Requirement
Lay Abstract	Required (Prog Rev)
Scientific Abstract	Required (Prog Rev)
Budget and Justification	Required
Research Plan	Required
Program Responsiveness	Required (Prog Rev)
Critical Path & Underserved	Required (Prog Rev)
Advocacy Involvement	Required (Prog Rev)
Letter of Commitment	Required (Prog Rev)
Biosketches	Required (Prog Rev)
Facilities	Required
Human Subjects	Required
Vertebrate Animals	Optional
Appendix	Optional

Important Dates

	Date
Applications due	March 2 2023 (12 pm noon PT)
Notification of funding status	July 1, 2023 (<i>at the latest</i>)
Project start date	August 1, 2023

Questions?

How to submit a proposal in SmartSimple

Research Grants Program Office (RGPO) Contracts and Grants Unit (C&G)

- C&G works in collaboration with CBCRP, serving as interface on administrative and procedural aspects your **Application** submission and review process.
- Contact information:
 - **Email: RGPOgrants@ucop.edu** (Best method)

Key Dates & Tips

Award Type	Application Deadline
Investing in Communities' Local-Level Needs to Reduce Racial Disparities in Breast Cancer: Phase 1	March 2, 2023, 12pmPT
Novel Approaches to Predict or Prevent the Influences of Environmental Chemicals on Breast Cancer Risk	March 2, 2023, 12pmPT
Intergenerational Transmission of Breast Cancer Health Inequities	March 2, 2023, 12pmPT

- All materials must be submitted through SmartSimple
- Detailed instructions are provided on the CBCRP website and in SmartSimple
- **Start early** to become familiar with SmartSimple
- **Submit early**: No late applications will be accepted

Accessing SmartSimple

Login to SmartSimple: <https://rgpogrants.ucop.edu/>

The screenshot shows the SmartSimple interface with the following elements:

- UNIVERSITY OF CALIFORNIA** logo in the top left corner.
- A yellow callout box at the top right says **Returning users login here**, with a red arrow pointing to the **Login to SmartSimple** form.
- The **Login to SmartSimple** form includes:
 - Email:** text label and an empty input field.
 - Password:** text label and an input field containing the placeholder text "Enter Password".
 - A dark grey **Login** button.
 - A **Forgot Password?** link below the password field.
- A yellow callout box at the bottom right says **First-time users register here**, with a red arrow pointing to a **Register Here** button.
- The **Register Here** button is located under the heading **Principal Investigator Registration**.
- The main content area on the left contains:
 - Welcome to Research Grants Program Office | UCOP**
 - A paragraph: "The Research Grants Program Office (RGPO) oversees a broad grantmaking portfolio of over \$100 million a year to support research that is critical to California, the nation and the world. RGPO programs enhance University of California's research capacity and excellence, which helps attract top faculty, graduate students, government funding and companies to our state."
 - A paragraph: "The SmartSimple Grants Management System is now accepting letters of intent (LOIs) and applications for the Tobacco-Related Disease Research Program (TRDRP). For information regarding the 2019 call for applications, please visit TRDRP's website at www.trdrp.org"

Creating an Account on SmartSimple

<https://rgpogrants.ucop.edu>

Enter your institution and complete your applicant contact information.

If you receive a message that an account with your email address already exists, return to the main login page and click **“Forgot Password.”**

Institution Information

Instructions
Please start typing the name of your institution. A dropdown list will appear, in order to select your institution. If the name does not exist, [search the IRS database.](#)

* Institution Name

Contact Information

* Email

* First Name

* Last Name

* Address


* City

* Country

* State / Province

* Zip / Postal Code

* Telephone Number

I'm not a robot 

Preparing and Submitting an Application

UNIVERSITY OF CALIFORNIA

Privacy & Security Jane Doe 1

Home Available Funding Opportunities Historical Applications

Available Funding Opportunities

List of available funding opportunities below includes both open and upcoming in the Pacific Time Zone.

#	Name	Description	Policies and Guidelines	Deadline	Application Deadline		
1	CBCRP 2020 - Innovative, Developmental, and Exploratory Award (IDEA)	The Innovative, Developmental, and Exploratory Award (IDEA) supports speculative, exploratory, high-risk/high-reward projects with a primary focus on breast cancer.	PLACEHOLDER_UPLOAD.pdf	10/24/2019 12:00:00	03/05/2020 12:00:00	Info	Apply
2	CBCRP 2020 - Translational Research Award	Translational research to be supported by the CBCRP should have the potential for major impact in the areas of: (1) diagnosis, or treatment of breast cancer; (2) survivors; (3) reduction in the community burden of the disease in California, or (4) advances in systems changes, health policies or environmental factors that will impact public health outcomes. To distinguish this research from other types of research funded by the program, the applicant to present a "critical path" that along a defined research continuum leading to clinical application.			03/05/2020 12:00:00	Info	Apply
3	CBCRP 2020 - Conference Award	The Standard Conference Award is open to all researchers and is intended to host an event that satisfies the criteria for Applications.			03/04/2019 12:00:00	Info	Apply

1. Click on "Available Funding Opportunities"

2. Locate the row of the award type for which you'd like to apply, and click "Apply."

1. Click on the **"Available Funding Opportunities"** tab in the upper right corner.
2. Find the row that corresponds to the award you're interested in and click **"Apply."**

Application Submission

Instructions can always be downloaded at the top of each page.

Complete each section of the application. (“Save Draft” frequently to save entered information; review & edit as needed.)

Preview

TITLE PAGE APPLICANT / PRINCIPAL INVESTIGATOR PROJECT INFORMATION PROJECT CONTACTS BUDGET ASSURANCES DOCUMENTATION SIGNATURE PAGE

Application ID: B26PW1210

* Project Title: RGPOTest - CBCRP Water ST0Y1

72 characters left

* Project Duration (year): -- Select One --

* Proposed Project Start: mm/dd/yyyy

When finished, click “Submit to Signing Official.”

Download templates and upload all required attachments in the Documentation section.

NEXT >

Save Draft

Withdraw

Submit to Signing Official

Location of “In Progress” Applications

The screenshot shows the University of California SmartSimple Home page. The header includes the University of California logo and navigation links: Home, Available Funding Opportunities, and Historical Applications. The user's name, Jane Doe, is displayed in the top right. The main content area features three summary cards: 'In Progress Applications' (3), 'Submitted / Under Review Applications' (0), and 'Awarded Applications' (0). A red circle highlights the '3' in the 'In Progress Applications' card, and a red circle highlights the '3' in the 'In Progress Applications' text below it.

The footer of the SmartSimple page, showing the University of California logo on the left and navigation links: Home, Available Funding Opportunities, and Historical Applications on the right. A 'Privacy & Security' link is also visible in the top right corner.

In Progress Applications


#	RFP	Application ID	Project Title	Type	PI Name	My Role	LOI Deadline Date	FA Deadline Date	Status	
1	CBCRP 2020 - Translational Research Award	B26TR1219	RGPOTest CBCRP Translational	Translational Research Award	Nancy Chamberlain	Principal Investigator	10/24/2019	03/05/2020	Full Application Draft	Open
2	CBCRP 2020 - Hormones in Beef Initiative	B26PB1214	RGPOTest Hormones in Beef	Hormones in Beef Initiative	Nancy Chamberlain	Principal Investigator		12/05/2019	Full Application Draft	Open

1. When returning to continue a draft application, click on “In Progress Applications” on the Home page of SmartSimple.
2. Locate the row for your draft application. Click “Open” to continue full application and access instructions and templates.

Budget tab

Click the Budget tab

Templates and Instructions:

 [CBCRP_Submission_Instructions_by_Award_Type.pdf](#)
20.6 KB - 08/27/2019 12:49pm

Click "Open" to start entering information

INVESTIGATOR PROJECT INFORMATION PROJECT CONTACTS **BUDGET** ASSI >


Total Project Costs

Action	Owner - Institution	Total DC	Total IDC	Total
Open	Jane Doe 2 - MERCY HOUSING CALIFORNIA	\$141,750	\$42,225	\$183,975
Total		\$141,750	\$42,225	\$183,975

< BACK

NEXT >

Save Draft

 Withdraw

Submit to Signing Official

Budget tab – Adding Institution Contacts

Start typing the name of your signing official into the field and select from the list that populates.

If you cannot find their name in the list, click “Can’t find Signing Official.” Then click “Add Signing Official.”

INSTITUTION CONTACTS BUDGET SUMMARY BUDGET DETAILS SUBCONTRACTS

*** Signing Official**

This should identify the individual who is authorized to act for the Applicant Organization, and the conditions for any grant, including the applicable grantor regulations.

Search and select ?

*** Fiscal Contact**

This should identify the individual at the Applicant Organization who will serve as the authorized

Search and select ?

*** Contracts and Grants Contact**

This should identify the individual in the Applicant Organization’s Contracts and Grants Office, or an award be made, and who will serve as the liaison to the grantor on official grant administrative

Search and select ?

Can't find the contact you're looking for?

- Can't find Signing Official
- Can't find Fiscal Contact
- Can't find Contracts and Grants Contact

Add Signing Official

Budget tab – Editing the budget

Translational Research Award Application » **Budget**

[↑ Back to Application](#)



Budget Instructions:

Please open the budget and carefully read the limits set on the call for applications. If exceeded, system will alert and user is required to adjust the numbers.

[INSTITUTION CONTACTS](#)

[BUDGET SUMMARY](#)

[BUDGET DETAILS](#)

[SUBCONTRACT BUDGET DETAILS](#)

Please click the Edit Budget button below to enter your budget information.

[✎ Edit Budget](#)

Jane Doe 1 - MERCY HOUSING

Budget Summary

Do not click “Budget Complete” until you have entered all the necessary budget figures and justification notes – clicking this button will lock your budget and you will not be able to make additional edits.

[Save Draft](#)

[Budget Complete](#)



CALIFORNIA
Breast Cancer
Research Program

Budget tab – Editing the budget

Scroll down to
“Personnel Costs.”
Click “+” to add a new
row.

Entries will populate in
the budget summary at
the top of the page.

Enter budget
justification.

Repeat for all budget
categories.

Budget Detail Justification

The budget table on the top of this page is generated from expenses entered in the budget categories below. Please scroll down to the budget categories and click “+” to enter your expenses. Please note you must manually calculate and enter any indirect costs in the budget category section at the bottom of this page. For each budget category, provide all necessary justification. There is no character limit on the budget justification, though it should be concise.

The per year direct cost maximum is: \$250,000.00

The total direct cost maximum is: \$750,000.00

	Year 1	Total
Personnel Costs	\$2,000	\$2,000
Student Tuition Fees, Graduate Student Stipends	\$0	\$0
Other Project Expenses	\$0	\$0
Equipment	\$0	\$0
Travel Expenses	\$0	\$0
Subcontracts	\$0	\$0
Service Contracts and Consultants	\$0	\$0
Direct Costs	\$2,000	\$2,000
Modified Total Direct Costs (MTDC)	\$2,000	\$2,000
Indirect Costs (IDC)Total	\$0	\$0
Total Expenses	\$2,000	\$2,000

1. Personnel Costs (Salary and Fringe)

Salaries and Fringe Benefits	Year1	Total
Salary 1	\$2,000	\$2,000
	\$2,000	\$2,000

+

For each person supported by this grant, describe their contribution to the project.

Justification

Save

Clear

Close

Submit to Signing Official

Main

Notes

Invite Personnel



Call for Application Details

Name: TRDRP 2019A - High Impact Pilot Award
Type: High Impact Pilot Award
Deadline: 09/27/2018 12:00:00

Templates and Instructions:



IP_Application_Instructions.pdf
1,916 KB - 07/18/2018 6:32pm

Total Files: 1

Preview

TITLE PAGE APPLICANT / PRINCIPAL INVESTIGATOR PROJECT INFORMATION INSTITUTION CONTACTS BUDGET ASSURANCES DOCUMENTATION **SIGNATURE PAGE**

* Applicant Signature

Check the box to indicate that you acknowledge the statement below and type in your full legal name to serve as your electronic signature.

I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. I agree to accept responsibility for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of this application.

* Applicant Electronic Signature (Type in your full legal name)

Jane Doe

* Date

07/19/2018

Save Draft

Withdraw

Submit to Signing Official

Biomonitoring Initiative: Questions and Additional Information

Applications are due no later than March 2, 2023 (12 pm noon PT)!

Useful links:

- SmartSimple application system: <https://rgpogrants.ucop.edu>
- Webinar “[How to use SmartSimple to Submit a Partnered Application](#)”
- Novel Approaches to Predict or Prevent the Influences of Environmental Chemicals on Breast Cancer Risk : <https://www.cbcrp.org/funding-opportunities/sri/biomonitoring.html>
- Additional funding opportunities: [cbcrp.org/funding-opportunities/index.html](https://www.cbcrp.org/funding-opportunities/index.html)

For programmatic questions, contact Sharima Rasanayagam, CBCRP Program Officer:

- Sharima.Rasanayagam@ucop.edu

For questions about Smart Simple, technical issues, or application instructions and forms, contact Research and Grants Program Office Contracts and Grants unit:

- RGPOgrants@ucop.edu