

Intergenerational Transmission of Breast Cancer Health Inequities

**Informational Webinar for
Prospective Applicants**

Agenda

- The California Breast Cancer Research Program (CBCRP)
 - CBCRP Program-Directed Initiatives
 - Preventing Breast Cancer Initiatives (PBC)
- Intergenerational Transmission of Breast Cancer Health Inequities
 - Overview
 - Research Questions and Suggested Approaches
 - How Grants are Evaluated
 - Important Dates
- Resources for Submitting an Application in SmartSimple

California Breast Cancer Research Program (CBCRP)

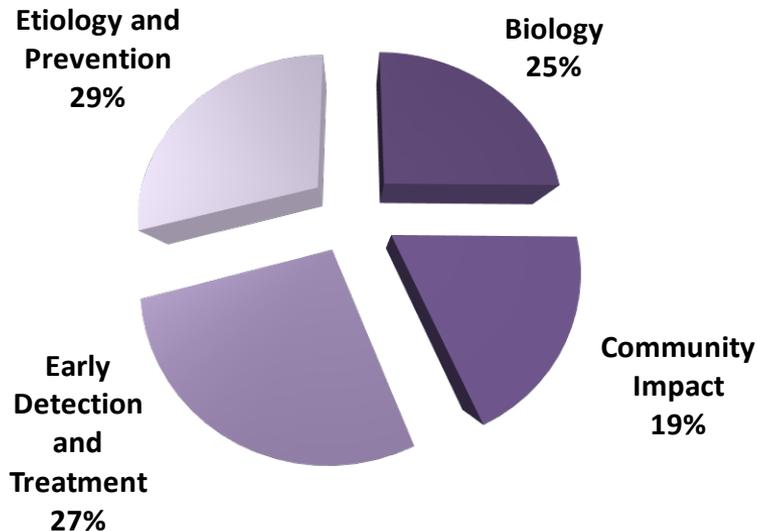
- Founded in 1993
 - breast cancer activists, scientists, clinicians, state legislators, and University of California officials collaborated to win passage in the state legislature of the California Breast Cancer Act.
 - funded by a tax on tobacco products, voluntary state personal income tax form check-off, 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:

- *Intergenerational Transmission of Breast Cancer Health Inequities*

Intergenerational Transmission of Breast Cancer Health Inequities Overview

Overall Aim: To examine whether intergenerational transmission of breast cancer susceptibility can be influenced by environmental exposures (e.g. chemical exposures; multi-level exposures to social determinants of health).

Studies will be viewed as responsive if they employ community-partnered participatory methods and are any of the following types of studies:

- Approach 1: epidemiology studies with stored biospecimens from earlier in life (e.g., prenatal period) and outcomes or strong intermediate markers in a least one subsequent generation;
- Approach 2: epidemiology studies that can utilize a mixed methods approach to analyze qualitative and quantitative data around intergenerational social determinants of health at the individual and community level;
- Approach 3: studies with access to one generation and breast cancer incidence outcomes in at least one subsequent generation.

Intergenerational Transmission of Breast Cancer Health Inequities Overview

Available Funds:

CBCRP intends to fund up to three projects with a duration of three to five years maximum at a maximum total direct cost of \$300,000 for Approach 1 and \$425,000 for Approaches 2 or 3.

Eligibility:

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

Intergenerational Transmission of Breast Cancer Health Inequities

Research Teams:

- Up to 3 community-partnered participatory research teams
- Each team will need at least one community Co-PI and at least one academic Co-PI.
 - Community-level stakeholders (e.g., residents, community leaders, community-based organizations)
 - Academic partners with relevant experience and expertise for the proposed project
- Interdisciplinary teams recommended with expertise in with expertise in breast cancer epidemiology, social science and intergenerational modeling in collaboration with community stakeholders.

Community-Partnered Participatory Research

- An **equal** partnership between academic Co-PI and community Co-PI
- Partnership works together to:
 - Identify the research question
 - Develop the research plan
 - Carry out the research
 - Interpret the results
 - Disseminate the results



The CPPR team

Academic Co-PI & Staff

Community Co-PI, Staff, Clients, Community Members



Illustration: Ojima Abalaka



Intergenerational Transmission of Breast Cancer Health Inequities - Research Questions

For this funding opportunity, we are interested in at least two generations, with exposure taking place in one generation and outcomes in at least one subsequent generation.

- Is the unequal burden of breast cancer seen in BIPOC influenced by intergenerational transmission of risk through early life exposure to specific environmental chemicals?

AND/OR

- Is the unequal burden of breast cancer incidence and/or mortality explained by persistent intergenerational macro and meso level social forces? Analysis of upstream causal factors include structural policies that contribute to systematic unequal access to resources (e.g. wealth, employment, education, housing, healthcare, etc.) and the built environment.

Approach 1 - Epidemiology

Suggested approaches include an epidemiology study with any or a combination of the following designs:

- Examine associations between early-life exposures to environmental chemicals and breast cancer risk (or intermediate markers for breast cancer risk) in F1 generation, if stored biospecimens from F0 generation during pregnancy are available.
- Examine associations between exposures to environmental chemicals during a WOS (pregnancy) and breast cancer risk in F0 generation, if stored biospecimens from F0 generation during pregnancy are available.
- Examine associations between exposure to environmental chemicals in early-life and intermediate markers of breast cancer risk in F2 generation, if stored biospecimens from at least F0 or F1 generations are available.
- Examine whether the associations are stronger after considering social macro-level forces related to health inequities like socioeconomic status (interaction model)
- Conduct intergenerational studies of community health with documented chemical exposures (e.g., dumping).

Approach 2 – Mixed Method Analytical Approach

Social Epidemiology and Economic Evaluation

Use existing cohort studies with quantitative and qualitative data that can access at least two generations within families to examine intergenerational effect of systemic inequities to:

- Apply conceptual frameworks for studying intergenerational health disparities that focus on macro-level determinants including policies affecting income, housing, education, and wealth transmission.
- Identify specific intergenerational socio-ecological determinants of breast cancer risk; elucidate using social science conceptual approaches like pathways models and evaluations including multilevel economic models.
- Examine historical events or man-made (including environmental racism) or natural disasters that can leverage data on exposure to events and breast cancer outcomes across F0 and F1 generations
- Examine associations between trauma experienced by F0 generation and breast cancer risk in F1 generation; assess breast cancer risk in F0 generation as well.
- Examine whether associations are stronger if F0 trauma occurred earlier in life.

If possible, studies should oversample vulnerable populations that are traditionally impacted by social inequities.

Approach 3 – Case Control of Breast Cancer under 45

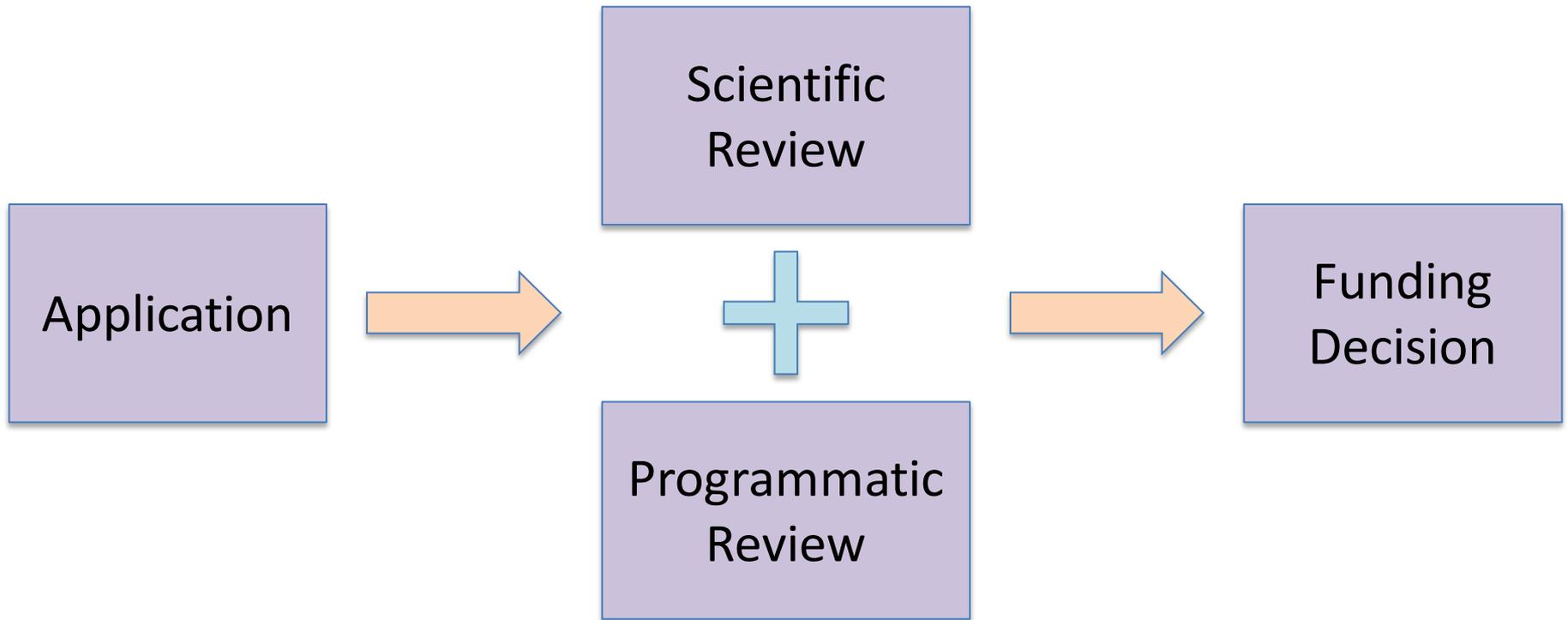
Create new de novo retrospective cohorts that can access at least two generations within families to examine intergenerational transmission of inequities. Sampling based on F2 breast cancer status with any of the following suggested designs or combinations of them:

- Apply the same study design aims as Approach 2.
- Recruit F2 women with and without breast cancer with documented environmental exposures at the community level of inequitable environmental exposures (e.g., dumping).
- Collect lifecourse data on F2's mother (F1) and grandmother (F0).
- Establish potential for assessment of breast cancer risk in the F3 generation based on intermediate markers of risk.
- Assess epigenetic factors in biospecimens
- Collect data on paternal exposure

Intergenerational Transmission of Breast Cancer Health Inequities Dissemination Plan

- Proposals must include a dissemination plan and should discuss if the dissemination plan will be ongoing throughout the project or at the end and justify the frequency of the dissemination elements.
- Each plan should specify who on the project will be part of the dissemination team, who will be the target audience including non-research audiences, especially community members, practitioners and policy makers.
- The dissemination plan requirements should take into account audiences, messages, channels, milestones, and appropriate resources to reach milestones.
- Given the focus of this project on understanding the potentially large undercounting of risk based on intergenerational transmission, communication to both clinical and public health practitioners as well as policy makers is essential.

Two-Tier Evaluation Process



Intergenerational Transmission of Breast Cancer Health Inequities: Review Criteria

	Criteria
Scientific Review	<ul style="list-style-type: none">• Partnership• Community Benefit• Quality of the Research• Feasibility
Programmatic Review	<ul style="list-style-type: none">• Responsiveness• Lay Abstract• Diversity, Equity and Inclusion• Community Involvement• Dissemination and translation potential

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)
Collaborative Agreements	Required (Prog Rev)
Biosketches	Required (Prog Rev)
Facilities	Required
Human Subjects	Required
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 image shows a screenshot of the SmartSimple login page. The page has a blue header with the University of California logo. The main content area is divided into two columns. The left column contains a welcome message and a registration link. The right column contains a login form. A red oval highlights the login form, and a red arrow points from a text box to it. Another red oval highlights the 'Register Here' button, and a red arrow points from a text box to it.

UNIVERSITY OF CALIFORNIA

Returning users login here

Welcome to Research Grants Program Office | UCOP

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.

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

Principal Investigator Registration

[Register Here](#)

First-time users register here

Login to SmartSimple

Email:

Password:

[Forgot Password?](#)

[Security](#)

Login

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
United States

* State / Province
-- Select One --

* Zip / Postal Code

* Telephone Number

I'm not a robot 

Submit

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

UNIVERSITY OF CALIFORNIA

Home Available Funding Opportunities Historical Applications

Jane Doe

1

My Applications

3 In Progress Applications

0 Submitted / Under Review Applications

0 Awarded Applications

Home Available Funding Opportunities Historical /

Privacy & Se

In Progress Applications

Search

#	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.

Inviting Co-PI to an Application (or other roles with Edit/View Access)

UNIVERSITY OF CALIFORNIA

Privacy & Security Nancy Chamberlain_External Ap...

Home Available Funding Opportunities Historical Applications Open Calls (Testing)

Options 1 of 2

Main

Notes

Invite Personnel 1

B26BB1411 RGPO Test CBCRP CRC Pilot

i Add Personnel
Please input basic contact information First Name, Last Name, Email, and Role. An invitation email is triggered allowing the invited contact to accept or decline the invitation. The Status column will display the current status of the invitation. Once accepted personnel will be granted access (Roles and access are defined below).

Co-Principal Investigator: User can View/Edit the application.
Advocate: User can View the application.
Co-Investigator: User can View the application.
PI Assistant: User can View/Edit/Submit the application.
Referee: User can submit a blind letter of reference.
Mentor Referee: User can submit a blind letter of reference.

Prefix	First Name	Last Name	Email	Role	Status	
	Nancy	Chamberlain	Nancy.Chamberlain@ucop.edu	PI Assistant	Invited	✕
	Nancy	Chamberlain-External Applicant	gnarlynancy@gmail.com	Co-Principal Investigator	Accepted	✕

+

Save Invite 3

- 1) Select “Invite Personnel” in the left-hand column
- 2) Click on the “+” button and type in name, email, and role of your co-PI (or PI Assistant)
- 1) Select “Invite” to send them an email to accept access to the proposal

Confirming Addition of co-PI

B26BB1411 RGPO Test CBCRP CRC Pilot

Preview

TITLE PAGE **1 APPLICANT / PRINCIPAL INVESTIGATOR** PROJECT INFORMATION PROJECT CONTACTS BUDGET ASSURANCES DOCUMENTATION SIGNATURE PAGE

The following information comes from your user profile. Click on your name in the upper right corner of this window and then select, "My Profile" from the resulting dropdown list to make changes to your profile.

2

Degrees:

Applicant Last Name: Chamberlain

Applicant First Name: Nancy

Applicant Institution: RGPOTest University 1 (a UC institution)

Email: [REDACTED]

Address: 300 Lakeside Dr., 6th floor

Phone: (510) 987-9047

Web Address:

ORCID ID:

Submitting PI Information

3

Degrees:

Institution	Year	Degree
	0	PhD

Applicant Last Name: Chamberlain_External Applicant

Applicant First Name: Nancy

Applicant Institution: RGPOTest University 1 (a UC institution)

Email: [REDACTED]

Address: 300 Lakeside Dr.

Phone: (510) 987-9047

Web Address:

co-PI Information

Save Draft

Budget Page with multiple budgets

B26BB1411 RGPO Test CBCRP CRC Pilot i []

 [CBCRP_Submission_Instructions_by_Award_Type.pdf](#)
21.3 KB - 10/18/2019 3:56pm

Total Files: 1

Preview

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

Total Project Costs

Action	Owner - Institution	Total DC	Total IDC	Total
Open	Nancy Chamberlain - RGPO Test University 1 (a UC institution)	\$61,750	\$500	\$112,250
Open	Nancy Chamberlain_External Applicant - RGPO Test University 1 (a UC institution)	\$7,000	\$0	\$7,000
Total	CHECK Direct Cost Budget against Cap before Locking	\$118,750	\$500	\$119,250

Budget tab

Click the Budget tab

Click "Open" to start entering information

Templates and Instructions:

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

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 who will serve as the liaison to the grantor on official grant administration.

Search and select ?

*** Fiscal Contact**

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

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 administration.

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 CALIFORNIA

Budget Summary

Save Draft

Budget Complete

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.

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

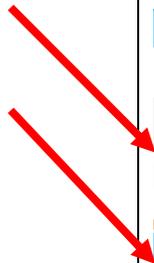
	Year 1	Total
Personnel Costs	\$2,000	\$2,000
Student Tuition Fees, Graduate Student Stipends	\$0	\$0
Other Project Expenses	\$0	\$0
Equipment	\$0	\$0
Travel Expenses	\$0	\$0
Subcontracts	\$0	\$0
Service Contracts and Consultants	\$0	\$0
Direct Costs	\$2,000	\$2,000
Modified Total Direct Costs (MTDC)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



Submit to Signing Official – Co-PI

B26BB1411 RGPO Test CBCRP CRC Pilot



Templates and Instructions:



[CBCRP_Submission_Instructions_by_Award_Type.pdf](#)

21.3 KB - 10/18/2019 3:56pm

Total Files: 1

Preview

PI / PRINCIPAL INVESTIGATOR PROJECT INFORMATION PROJECT CONTACTS BUDGET ASSURANCES DOCUMENTATION **SIGNATURE PAGE**

* Co-PI Institution Signature Documents

Download the [Signature Page for Non-Submitting Institutions](#). Obtain the required ink signatures and upload a scanned copy here. A separate signed Signature Page must be uploaded for each non-submitting institution.

Submit to Signing Official – Submitting PI

- Main
- Notes
- Invite Personnel

i 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

Intergenerational Transmission of Breast Cancer Health Inequities : 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](#)”
- Intergenerational Transmission of Breast Cancer Health Inequities: <https://www.cbcrp.org/funding-opportunities/sri/early-life-exposures.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