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Application Summary

Competition Details

Competition Title: Funding Opportunity: IRA Applications for 2021-2022

Category:

Award Cycle:

Submission Deadline: 11/12/2021 11:59 PM

Application Information

Submitted By: Barbara Thayer

Application ID: 1265

Application Title: Project Support for Student Independent Research: The Role of Estrogen in Multitasking and Other Cognitive Tasks

Date Submitted: 11/7/2021 10:53 PM

Personal Details

Applicant First Name: Barbara

Applicant Last Name: Thayer

Applicant Department: Psychology

Email Address: barbara.thayer@csuci.edu

Phone Number: (831) 234-0451

Additional Applicant Name: Susan Beers

Additional Applicant Email: susan.beers@csuci.edu

Additional Applicant Department: Psychology

Application Details

Proposal Title

Project Support for Student Independent Research: The Role of Estrogen in Multitasking and Other Cognitive Tasks

Total Amount Request from IRA

2,070

Brief Activity Description

Students have helped to design several projects, including an investigation of the relationships among estrogen, multitasking ability and other aspects of cognition, such as attention, working memory and spatial navigation capacity. Students participated in developing the IRB application, developing measures of multitasking and cognition, designing computer-based programs to test aspects of cognition, recruiting and testing participants, collecting and analyzing data, drawing conclusions and disseminating results. Currently, 7 students are participating in this project, and we expect to add 2-3 more students in the spring. In order to accurately assess the relationship between estrogen and these cognitive activities, estrogen levels will be assayed using an outside service.

These research projects are closely aligned with the second educational objective in Psychology, "Recognize, understand the strengths and weaknesses of, and be able to use, major research methods in psychology, including study design, data analysis and interpretation," as well as the fourth objective, "Demonstrate information competence and the ability to use computers and other technology for multiple purposes," and the fifth objective, "Use and respect skeptical inquiry, critical thinking and the scientific approach to understanding behavior." Students are integrating various methods of inquiry in their projects – for example, incorporating biological perspectives with cognitive techniques – and learning to use new technology to assess aspects of cognition. Students are reading the primary literature and developing expertise in experimental design and execution, data collection and analysis, and collaboration and scientific presentation.

Activity or Event Date

11/1/2021

List all classes that relate to proposal

Psy 490, Psy 494

Learning Outcomes & Relation to Course Offering

The IRA activity constitutes the coursework for all students involved. Students read primary scientific literature to learn about previous research on their project: for example, students working on the multitasking project read literature on (1) multitasking and other features of cognition, (2) how hormones influence cognition, and (3) what other cognitive assessments have shown with respect to the effect of hormones and estrogen in particular. Students are responsible for learning about conducting ethical research with human subjects and completing appropriate training. They recruit participants and interact with them in a variety of ways, from explaining the informed consent process, to collecting saliva samples for assaying estrogen, monitoring the various cognitive assessments, and completing a debriefing process. They learn about confidentiality and how to effectively collect data. Students are also responsible for gathering and otherwise developing all instruments necessary for the research, including programming in Superlab and Qualtrics. Students then analyze the data collected, using knowledge of statistical methods from other coursework. They draw conclusions and will present their findings at one or more scientific conferences where they have the opportunity to interact with other researchers and learn about new developments in the area. We anticipate students presenting these findings at the SAGE Student Research Conference as well as at the Western Psychological Association Convention next April.

A pilot study was undertaken in the Fall Semester of 2019 which was funded by the Psychology Program. Funds from a previous IRA grant were used to support the project through Spring 2021.

Is this activity off campus ?

No

Off Campus - Describe benefit brought back to campus

N/A

**CSU Channel Islands
IRA Proposed Budget**

IRA Activity Budget (No Travel) - 2020-2021

SAMPLE

Please layout in detail when various components of your plan will be completed in order to achieve key milestones. This information will be used to forecast the spending of IRA within the fiscal year.
PS: all purchases/services need to be received and billed to CI before June 30th to account for the current fiscal year or special arrangements will need to be made.

IRA Activity Title
Global Studies Capstone Global Awareness Event

Name of Sponsor
Joe Smith

Total Requested
\$\$
\$2,160

IRA Planning Budget Calendar 2020-2021

Operating Expenses Budget	Comments/Notes	July	August	September	October	November	December	January	February	March	April	May	June	Grand Total
Honoraria (Price set by CI)														\$ -
Honoraria (Price set by CI)														\$ -
Professional Svcs/ Speaker Fees (Price set by vendor)	Speaker fees for multiple speakers/organizations; fees set by us. We hope to bring 2-3 speakers.				\$ 300.00	\$ 300.00	\$ 300.00		\$ 300.00	\$ 300.00	\$ 300.00			\$ 1,800.00
Special Consultants (existing CI employees)														\$ -
Other Consultants /Other Professional Services														\$ -
Independent Contractor(s)														\$ -
Printing	Student posters and posters to advertise event				\$ 50.00	\$ 50.00	\$ 50.00		\$ 50.00	\$ 50.00	\$ 50.00			\$ 300.00
Advertising (such as in a magazine or publication)														\$ -
Copier Chargeback														\$ -
Event Signage (wayfinding on day of event)														\$ -
Event or Parking-related Staffing														\$ -
Rentals or Leases														\$ -
Promotional Items (with logo)														\$ -
Awards														\$ -
Registration- Conferences & Meetings														\$ -
Supplies & Services- Other														\$ -
Supplies & Services- Other														\$ -
Parking (please describe)	Parking passes for up to 5 speakers/visiting organization staff				\$ 10.00	\$ 10.00	\$ 10.00		\$ 10.00	\$ 10.00	\$ 10.00			\$ 60.00
Other (specify)														\$ -
Other (specify)														\$ -
Total		\$ -	\$ -	\$ -	\$ 360.00	\$ 360.00	\$ 360.00	\$ -	\$ 360.00	\$ 360.00	\$ 360.00	\$ -	\$ -	\$ 2,160.00

**CSU Channel Islands
IRA Proposed Budget**

IRA Activity Budget (No Travel) - 2020-2021

Please layout in detail when various components of your plan will be completed in order to achieve key milestones. This information will be used to forecast the spending of IRA within the fiscal year.

PS: all purchases/services need to be received and billed to CI before June 30th to account for the current fiscal year or special arrangements will need to be made.

IRA Activity Title

Name of Sponsor

**Total Requested
\$\$**

Enter the title here

Enter your name here

total amount

*formulas will calculate totals

IRA Planning Budget Calendar 2020-2021

Operating Expenses Budget	Comments/Notes	July	August	September	October	November	December	January	February	March	April	May	June	Grand Total
Honoraria (Price set by CI)														\$ -
Honoraria (Price set by CI)														\$ -
Professional Svcs/ Speaker Fees (Price set by vendor)														\$ -
Special Consultants (existing CI employees)														\$ -
Other Consultants /Other Professional Services														\$ -
Independent Contractor(s)														\$ -
Printing														\$ -
Advertising (such as in a magazine or publication)														\$ -
Copier Chargeback														\$ -
Event Signage (wayfinding on day of event)														\$ -
Event or Parking-related Staffing														\$ -
Rentals or Leases														\$ -
Promotional Items (with logo)														\$ -
Awards														\$ -
Registration- Conferences & Meetings														\$ -
Supplies & Services- Other														\$ -
Supplies & Services- Other	Analysis of saliva samples for estrogen quantitation, 100 samples	\$ -	\$ -	\$ -	\$ -	\$ 360.00	\$ 360.00	\$ 180.00		\$ 360.00	\$ 360.00	\$ 180.00		\$ 1,800.00
Parking (please describe)	2-day shipping for saliva samples (\$45 x 6 shipments)					\$ 45.00	\$ 45.00	\$ 45.00		\$ 45.00	\$ 45.00	\$ 45.00		\$ 270.00
Other (specify)														\$ -
Other (specify)														\$ -
* you can add lines to your budget by inserting lines here														\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ 405.00	\$ 405.00	\$ 225.00	\$ -	\$ 405.00	\$ 405.00	\$ 225.00	\$ -	\$ 2,070.00