Fostering Precision Medicine Research at UC Irvine with *All of Us* Data

Research Support and Funding Opportunity Sponsored by the UCI Genetic Epidemiology Research Institute (GERI) and UCI *All of Us*, in collaboration with multiple UCI departments to Use NIH's *All of Us* Research Program Data to Foster Precision Medicine Research at UC Irvine

The UCI Genetic Epidemiology Research Institute (GERI) and the UCI *All of Us* Research Program, in collaboration with multiple UCI department collaboration partners, including the Dean's Office of UC Irvine School of Medicine, is sponsoring a research support opportunity for UCI researchers to utilize the NIH *All of Us* Research Program data to pursue precision medicine research.

The purpose of this announcement is to inform researchers at UCI that we intend to support research projects via statistical assistance or funding of up to $2,500 each. Proposals will be evaluated based on their scientific merit, their potential for publications and for the likelihood of future extramural funding. Applicants for this research support opportunity must be full-time UCI faculty including those in the Clinical and Adjunct Research series who have an established account with the NIH *All of Us* Researcher Workbench. The scope of the proposed research must be planned to be completed within one year. The proposals that receive this support will be required to present their work, either in progress or completed, at a webinar for the *All of Us* Southern California Consortium.

Applications must be submitted to Jenny Fang at jennyf3@hs.uci.edu. Each applicant is only allowed to submit one application. Please see below for more detailed information on application submission.

Hoda Anton-Culver, Ph.D.
Donald Bren and Distinguished Professor
Principal Investigator, UCI *All of Us* Research Program
Principal Investigator, *All of Us* Southern California Consortium
Director, Genetic Epidemiology Research Institute
School of Medicine

Application Guidelines for the 'UC Irvine Precision Medicine Research Opportunity Using *All of Us* Data'

DEADLINES:

Due Date	Jan 31	Mar 31	May 31	July 31	Sept 30	Nov 30
Expect Response By	Feb 21	Apr 21	June 21	Aug 21	Oct 21	Dec 21

Eligibility Requirements:
Applicants must be full-time UCI faculty including those in the Clinical and Adjunct Research series who have an established account with the NIH *All of Us* Researcher Workbench. The scope of the proposed research must be planned to be completed within one year. Priority will be given to applications with high potential for publication and future extramural funding. Each applicant is only allowed to submit one application. The proposals that are accepted and receive this funding will be required to present their work, either in progress or completed, at a webinar for the *All of Us* Southern California Consortium. This source of research support must be acknowledged in any publication or presentation as noted in Section H below.

Submission Instructions:
Applications must be submitted using the guidelines and via email to Jenny Fang at jennyf3@hs.uci.edu. Please include any requests for review by any specific collaboration partner.

Specific Instructions for application preparation:

A. COVER PAGE

1. Project title
2. Name and contact information of PI
3. List of other project personnel, if applicable
4. School and department

B. PROPOSAL (may not exceed 2 pages, excluding references)

1. Specific aims
2. Significance
3. Innovation
4. Approach
5. References

C. SUPPLEMENTARY INFORMATION

1. (Required) A statement, up to 500 words, that describes (1) how this project will be leveraged to improve chances of obtaining future funding and (2) PI's understanding of the nature of the data collected by the *All of Us* Research Program, and familiarity with the *All of Us* Researcher Workbench.

2. (Required) A table detailing the number of data endpoints that would be available from the *All of Us* database. Example: how many participants are available in the *All of Us* data that are eligible for your project?
3. Research environment

D. RESEARCH SUPPORT REQUEST OPTIONS (Select Option A or Option B)

Option A: GRANT FUNDING SUPPORT OF UP TO $2,500

If funding support is requested, budget and budget justification is required. Please include:

1. Detailed budget of how the funds will be used
2. Justifications for each line item
3. Funds may be used for stipends to support postdoctoral fellows, or graduate or undergraduate student research assistants for up to one year of receipt of funds. Funds may not be used to pay for faculty salaries, equipment, software other than the *All of Us* computational platform, biostatistical consulting/support, or for travel.

OPTION B: RESEARCH DESIGN AND STATISTICAL SUPPORT

This option is appropriate for investigators who have a strong research question but need research design and statistical support from the Genetic Epidemiology Research Institute. If research design and statistical support is requested, please include the following in your application:

1. Description of the type of research support (i.e. statistical analysis, scientific methodology consulting, etc.) needed.
2. Amount of time (i.e. number of hours) requested for support
3. Timeline of support for project

F. Biographical sketch of key personnel in the NIH biosketch format

Please note that within the Cloud-based environment of the Researcher Workbench, registered researchers use R, Python, or SAS to link and analyze a variety of data types — surveys, physical measurements, EHRs, wearables, genomics — to conduct a wide range of studies. Applicants must either 1) describe capability of research team to perform comprehensive analyses in R, Python, or SAS programming languages or 2) select Option B in Research Support Request Section D above.

G. Application submission

Applications will only be accepted in the pdf format and must be fully contained within a single pdf file with the file name in the following format: applicant's last name_first name_AoUdata_proposal (For example: Anteater_Peter_AoUdata_proposal.pdf)

H. ACKNOWLEDGEMENT

1. Applicants must agree to acknowledge the research support from GERI in any presentation or publication generated from the proposed work:
    a. "[Description of monetary or non-monetary research support] of the research reported in this [publication/presentation/press release] was supported by the UC Irvine Genetic Epidemiology Research Institute. The content is solely the

responsibility of the authors and does not necessarily represent the official views of the Genetic Epidemiology Research Institute, or UC Irvine *All of Us* Research Program."

2. Applicants must also agree that if the proposal is accepted and receive funding, investigators will be required to present their work, either in progress or completed, at a webinar for the *All of Us* Southern California Consortium.
3. Applicant signature and date

Review Process

Applications will be reviewed by a committee of senior UCI multidisciplinary faculty and researchers and will be evaluated based on scope of proposed research, quality, innovation, and focus on the *All of Us* data research guidelines including demonstration of a thorough understanding of the nature of the data collected by the by the NIH *All of Us* Research Program as well as familiarity with the NIH *All of Us* Research Workbench environment.

Reporting Process

Accepted proposals must provide a progress report on a quarterly basis for GERI review. Please send progress reports by email to Jenny Fang at jennyf3@hs.uci.edu. Please also send a copy of the completed project for review prior to submission for publication to Jenny Fang at jennyf@hs.uci.edu.

Incomplete applications will not be accepted.

Review Process

Applications will be received via email by Jenny Fang jennyf3@hs.uci.edu and reviewed for completeness and to reconcile any missing information. The application will then be forward to the review committee. Members of the review committee are senior UCI multidisciplinary faculty and researchers and will evaluate based on scope of proposed research, quality, innovation, and focus on the *All of Us* data research guidelines including demonstration of a thorough understanding of the nature of the data collected by the by the NIH *All of Us* Research Program as well as familiarity with the NIH *All of Us* Research Workbench environment.