

# All of Us Research Program: 2022 Institutional Onramp Event Introduction

October 3, 2022 Dr. Karriem Watson, Director of Engagement and Outreach *All of Us* Research Program



## **Goals of Today's Event**

- Share the mission and objectives of the All of Us Research Program
- Highlight how institutions can leverage the All of Us Research Program to enhance research capacity
- Share resources available to institutions and researchers
- Hear from you!

## One of the largest, richest, most diverse biomedical datasets of its kind



# Data available from **372,000+** participants







45%

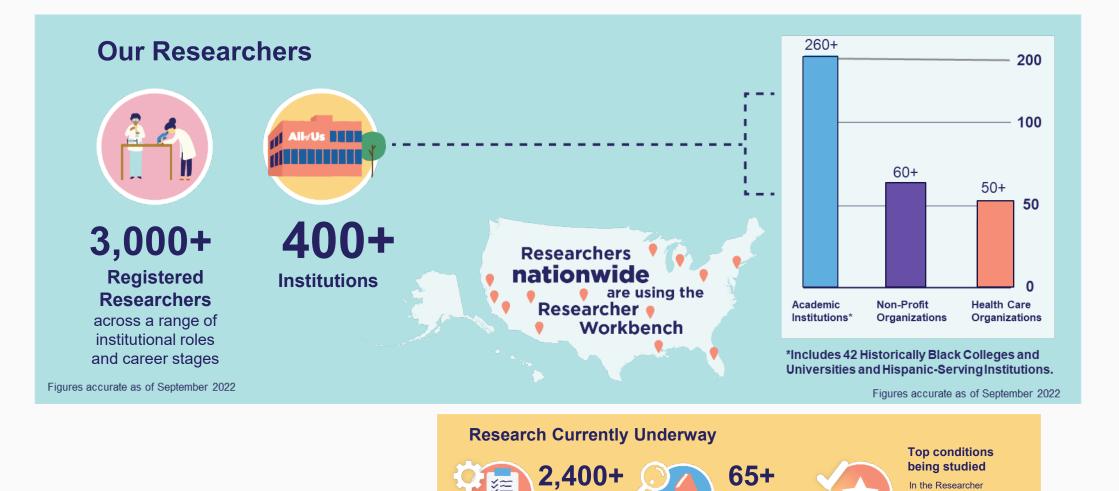
are from racial and ethnic minority groups

### **Building a Diverse Researcher Cohort**



- Creating a demographically diverse researcher cohort that promotes responsible and ethical use of data, returns value to participant communities, and accelerates research impact.
- Encouraging student assemblies and earlystage investigators to bring fresh, creative perspectives & innovative research outcomes.
- Ensuring access for researchers from various institutions/organizations to establish a truly equitable resource for all.

#### A dataset accessible to researchers across stages and settings



Active projects

**Publications in** 

peer-reviewed

journals

Diabetes
Figures accurate as of September 2022

Workbench include:Cardiovascular disease

Cancer

Hypertension

Mental Health

## The Researcher Workbench: Benefits for Researchers and Institutions



Available to all registered users

#### Resources

#### All of Us offers data and more.

Registered users have access to:

- Platform and tools
- \$300 in initial credit
- User support materials and staff
- Opportunities to showcase work

#### **Platform Uses**

#### All of Us is for publishing and more.

- Team science
- Dissertation
- Thesis
- Poster presentations
- Class projects
- Self-practice (especially data science

All of Us support for institutions

#### All of Us related funding support

- Notice of Special Interest: Administrative Supplements to Advance Precision Medicine Using the *All of Us* Research program's Data
- Notice of Special Interest: Administrative Supplements to Support "All of Us" and Health Disparities-Related Pilot Research Projects at NIMHD-Funded Research Centers in Minority Institutions (RCMI)
- Educational Hub for Enhancing Diversity in Computational Genomics and Data Science (U24 Clinical Trials Not Allowed)

## Introducing All of Us Chief Executive Officer, Dr. Josh Denny



#### Joshua C. Denny, MD, MS, FACMI Chief Executive Officer All of Us Research Program National Institutes of Health

# All of Us Research Program: Making Precision Medicine a Reality for All





October 3, 2022

Josh Denny, MD, MS Chief Executive Officer *All of Us* Research Program





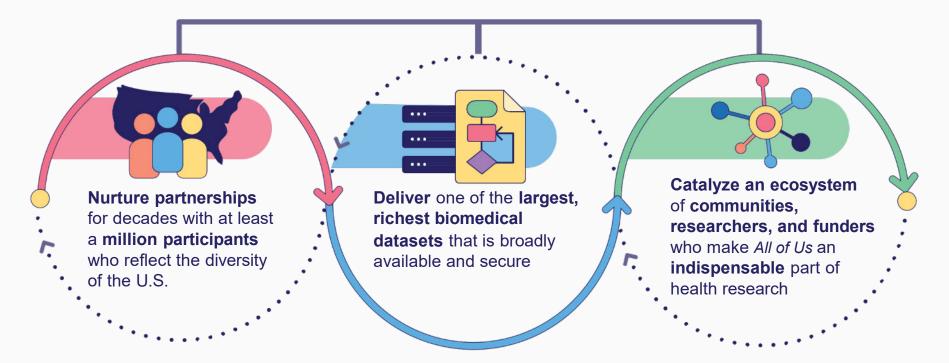
National Institutes of Health



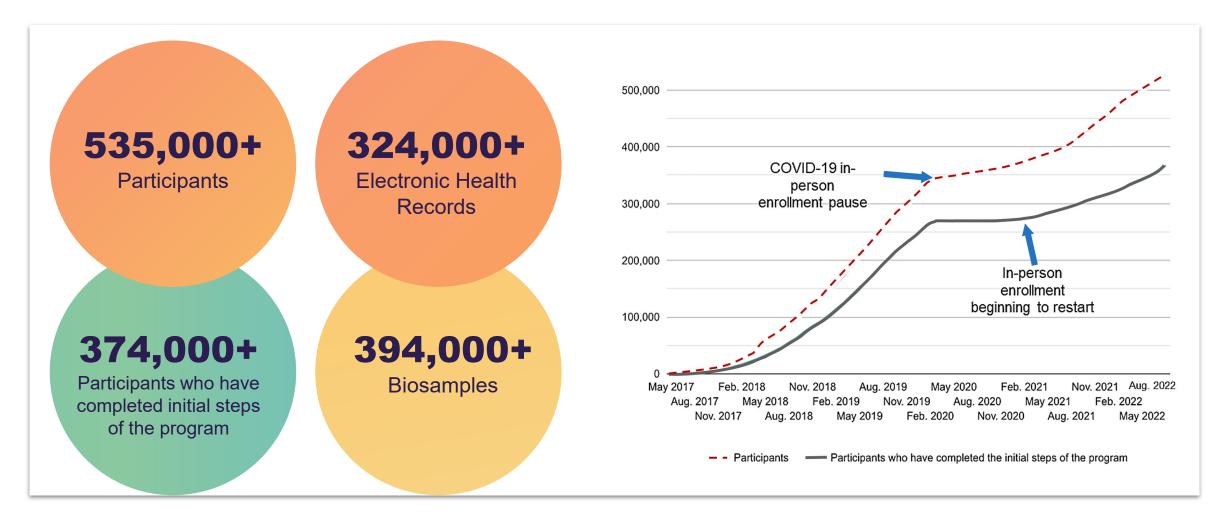
#### All of Us Research Program Mission

# **Our Mission**

Accelerate health research and medical breakthroughs, enabling individualized prevention, treatment, and care for all of us

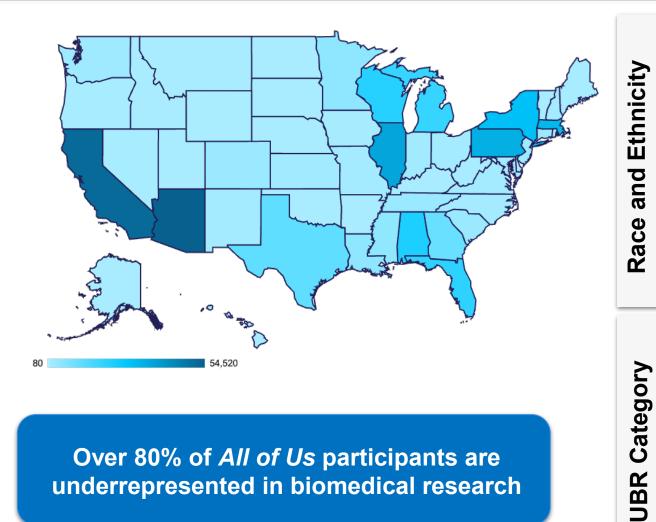


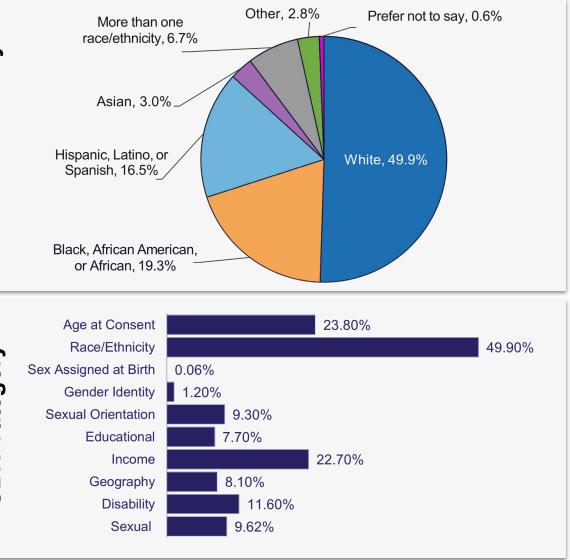
### **Enrollment Update**



Numbers current as of September 30, 2022

#### Status of the All of Us Research Program (as of September 30, 2022)





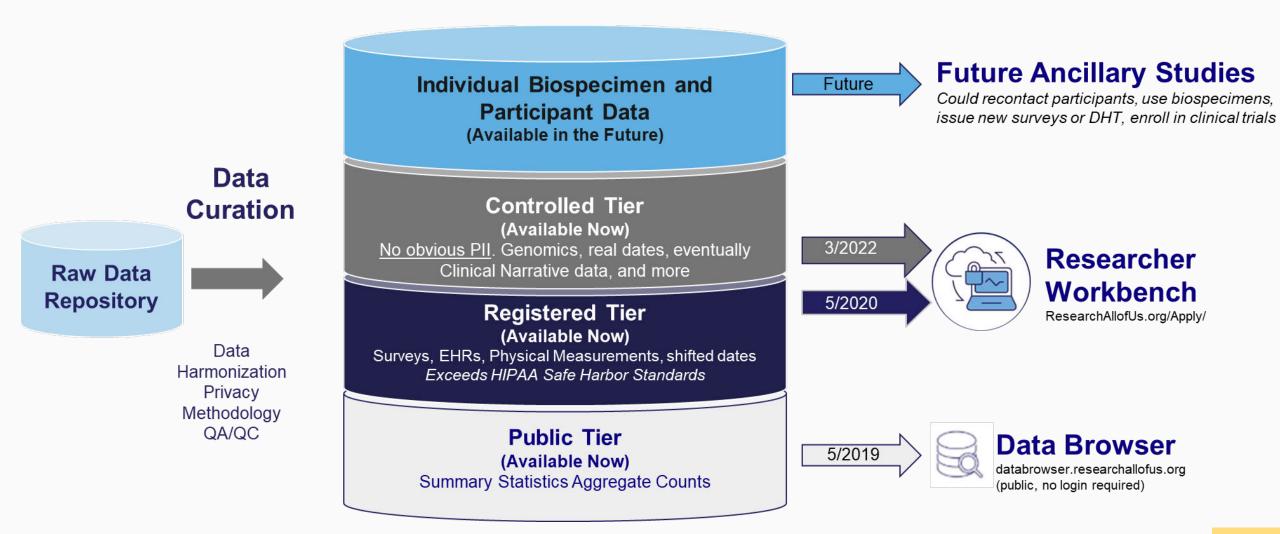
researchallofus.org

## Data Collected from All of Us Participants

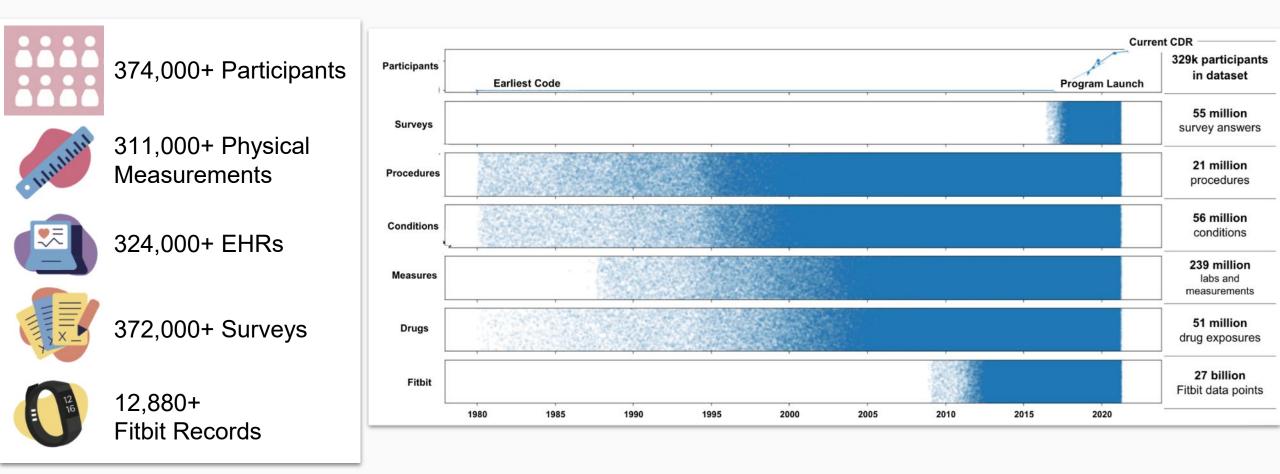




#### **Researcher Data Access**



## Data on the Researcher Workbench is Diverse and Longitudinal



*Plus: ~100k whole genomes + ~165K arrays launched in March* 

## All of Us Research Hub: Public Data Browser

Summary statistics of:

- EHR Data (Conditions, Drug Exposures, Lab & Measurements, Procedures)
- Genomic Variants
- Survey Questions (including COVID-19 surveys)
- Physical Measurements
- Open Access (no login required)

Conditions 0	Drug Exposures 0	Labs & Measurements 0	Procedures 0
23,300	28.798	14,502	27,444
medical concepts	medical concepts	medical concepts	medical concepts
201,920 participants in this domain	194,420 participants in this domain	199,040 participants in this domain	185,580 participants in this domain
View Conditions	View Drug Exposures	View Labs & Measurements	View Procedures
Senomics	Physical Measurements and Wearat	les	
Genomic Variants 0	Physical Measurements 0	Fitbit	
98.640	8	4	
participants in the Whole Genome Sequencing (WGS) dataset	Physical Measurements	Fitbit Measurements	
	274,540 participants in this domain Participants have the option to provide a	11,700 participants in this domain Fitbit data includes heart rate and activity	
165,220 participants in the Genotyping Array dataset	standard set of physical measurements.	summaries.	
View Genomic Variants	View Physical Measurements	View Fitbit	
Survey Questions			
The Basics 0	Overall Health	Lifestyle	Personal Medical History 0
The Basics o	Overall Health •	Lifestyle •	Personal Medical History 0 465
28 questions available	21 questions available	26 questions available	465 questions available
28 questions available 331,360 participants in this domain	21 questions available 333,360 participants in this domain	26 questions available 333,360 participants in this domain	465 questions available 114,460 participants in this domain
28	21 questions available	26 questions available	465 questions available
28 questions available 331,360 participants in this domain This survey includes participant demographic	21 questions available 331,360 participants in this domain Survey includes information about how	26 questions available 331,360 participants in this domain Survey includes information on participant.	465 questions available 114,460 participants in this domain This survey includes information about past medical history, including medical conditions.
28 questions available 331,360 participants in this domain This survey includes participant demographic information.	21 questions available 331,360 participants in this domain Survey includes information about how participants report levels of individual health.	26 questions available 331,360 participants in this domain Survey includes information on participant smoking, alcohol and recreational drug use.	465 questions available 14,460 participants in this domain This survey includes information about past medical history, including medical conditions and approximate age of diagnosis.
28 questions available 331,360 participants in this domain This survey includes participant demographic information. View Complete Survey Health Care Access & Utilization	21 guestions available 33,1360 participants in this domain Survey includes information about how participants report levels of individual health. View Complete Survey	26 questions available 33,360 participants in this domain Survey includes information on participant, smoking, alcohol and recreational drug use. View Complete Survey COVID-19 Participant Experience (COPE)	465 questions available 14,460 participants in this domain This survey includes information about past medical history, including medical conditions and approximate age of diagnosis.
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Individual Biospecimen and Participant Data (Available in the Future)

Controlled Tier (Available Now) o obvious PII: Genomics, real dates, eventual Clinical Narrative data, and more



Public Tier (Available Now) Summary Statistics Aggregate Counts

#### DataBrowser.ResearchAllofUs.org

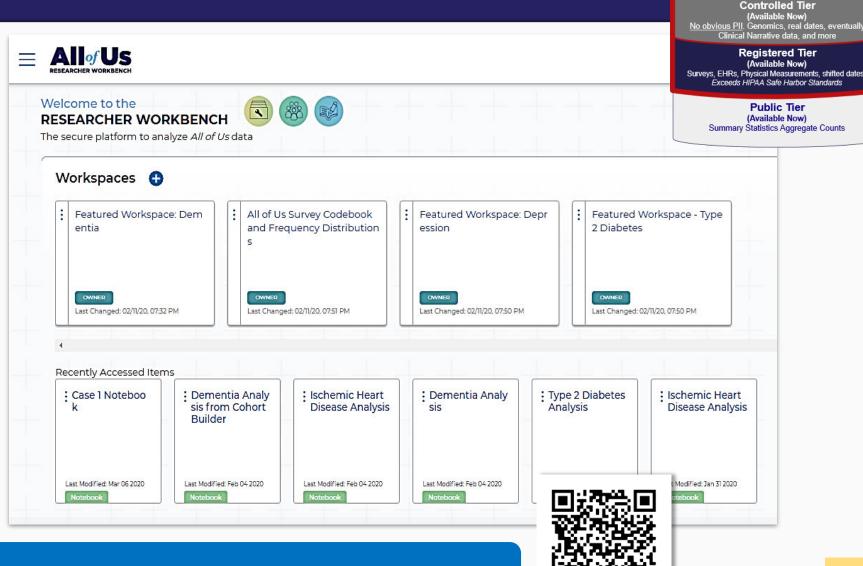


## All of Us Researcher Workbench: Access to Row-Level Data for Analysis

Individual Biospecimen and Participant Data (Available in the Future)

#### **Researcher Workbench Beta**

- Cloud based central resource
- Passport access model just create, describe your workspace, and get to work!
   No separate IRB approval needed.
- Access open to US nonprofits, academic institutions, and healthcare organizations
- Currently, >3170 researchers from >400 institutions



ResearchAllofUs.org/Data-Tools/Workbench/

## All of Us Researcher Workbench: **Access to Row-Level Data for Analysis**

#### **Researcher Workbench's Controlled Tier** Launched March 2022

165,000+ 98,600+ Genomics Genotyping Whole Genome **Analysis Tools** Arrays Sequences

Hail and PLINK in addition to R, Python, and Jupyter Notebooks



Individual Biospecimen and Participant Data (Available in the Future)

**Controlled Tier** (Available Now) No obvious PII. Genomics, real dates, eventuall Clinical Narrative data and me Registered Tier (Available Now) Surveys, EHRs, Physical Measurements, shifted dates Exceeds HIPAA Safe Harbor Standards

Public Tier

(Available Now) Summary Statistics Aggregate Counts

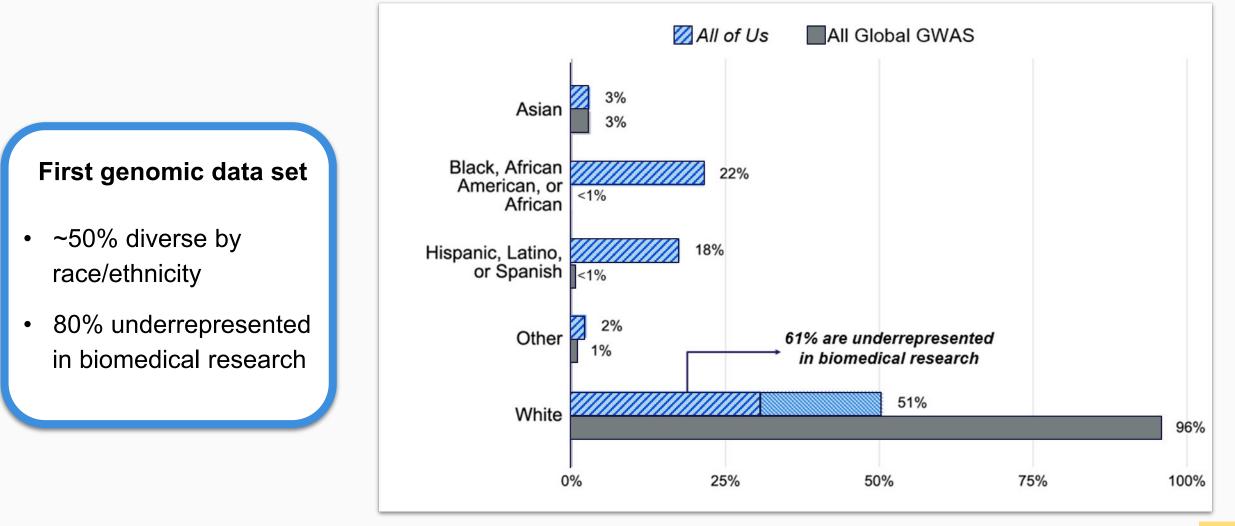


Includes 100M+ variants with ≥ 3 occurrences not seen in gnomAD 3.0



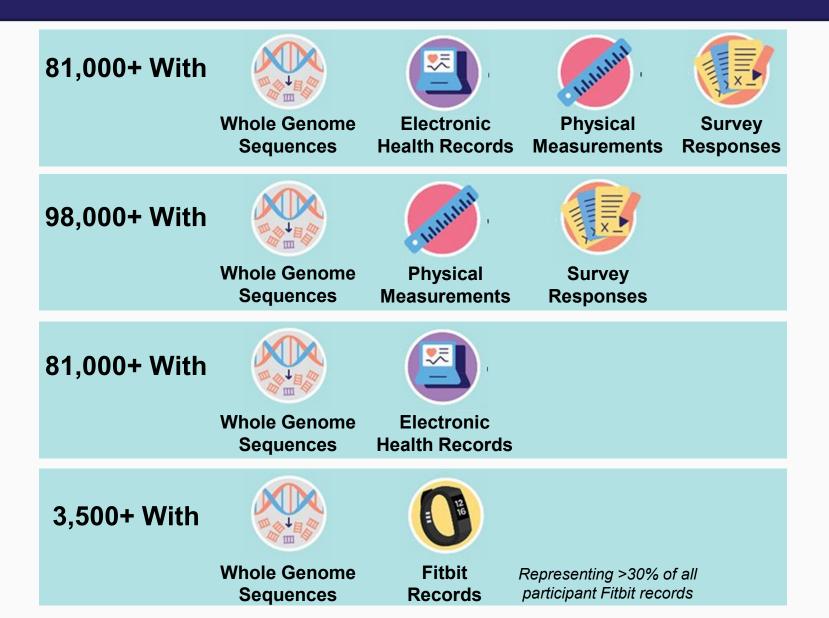
ResearchAllofUs.org/Data-Tools/Workbench/

## **Enhancing Genomic Studies Through Inclusion**



All Global GWAS values from <u>www.gwasdiversitymonitor.com</u>. Values current as of February 17, 2022

#### **Genomic Data Is Paired With Rich Phenotypic Data**



19

#### All of Us Data Includes a Wide Range of Diseases

Conditions	Domain	Participants	Conditions	Domain	Participants
Heart Disease	Heart	63,860	Depressive Disorder	Mental Health	59,960
Obesity	Endocrine	54,460	Bipolar Disorder	Mental Health	11,740
Type 1 Diabetes	Endocrine	3,260	Dementia	Mental Health	4,020
Type 2 Diabetes	Endocrine	40,040	Human Immunodeficiency Virus	Infectious Disease	4,340
Any cancer	Cancer	36,740	COVID-19*	Infectious Disease	18,551*
Asthma	Pulmonary	36,400	Alcohol Abuse (AUDIT-C)	Abuse	100,468
Chronic Obstructive Pulmonary Disorder	Pulmonary	17,640	Opioid Usage	Medication	126,000
Epilepsy	Neuro	6,700	Age Related Macular Degeneration	Eye	4,040
Stroke	Neuro	540	Hearing loss	Hearing	18,000
Rheumatoid Arthritis	Autoimmune	6,280	Falls	Aging/Nursing	4,060
Osteoarthritis	Autoimmune	71,920	*using combination of diagnosis cod	la lab toot and COVID a	

\*using combination of diagnosis code, lab test, and COVID survey answers

## Examples of type of research supported by All of Us

#### Topics we can study *now*.

- Health disparities
- Historically underrepresented populations
- Associations between diseases, medications, behaviors, social determinants of health, mental health
- Associations with genomics and pharmacogenomics
- Health outcomes
- Environmental data linked at 3-digit zip level
- Insert your topic here!

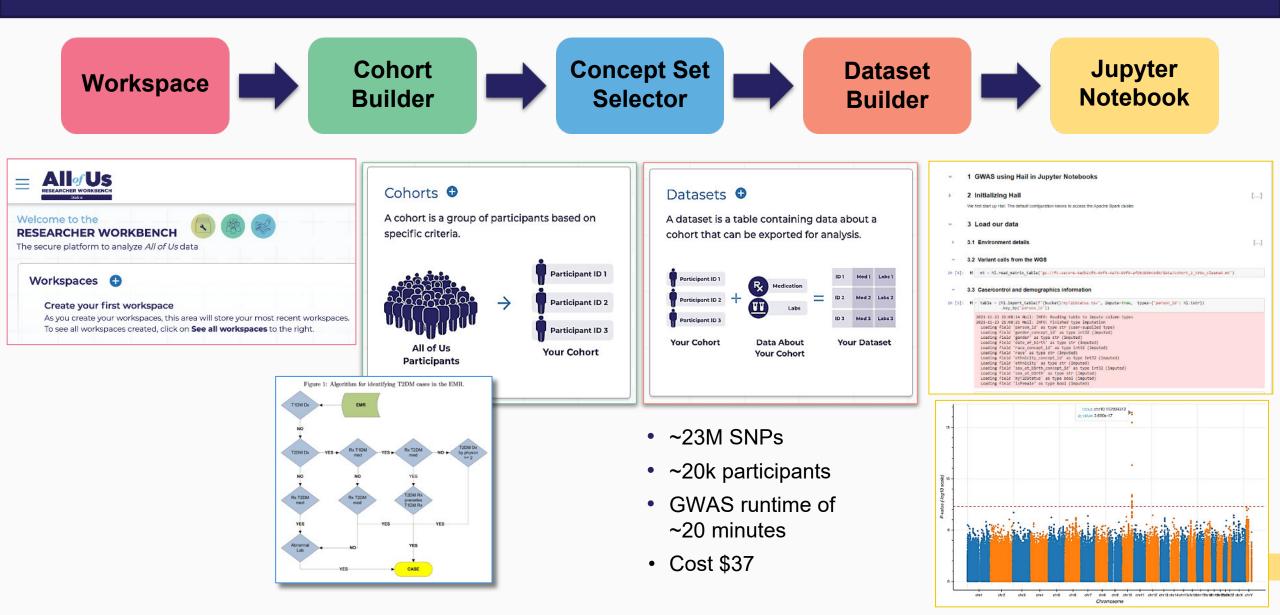
#### Modalities of research we support

- Al/Machine Learning
- Risk stratification
- Predictive analytics
- Phenotype algorithms & cohort development
- Studies using Genomics/ Environmental/Lifestyle data
- Data QC and EHR variation
- Validation of other studies

#### What we are not

- A representative US sample
- A study with uniform follow-up of all variables

### What Does It Look Like To Do an Analysis in *All of Us*? A Genome Wide Association Study (GWAS) of Type 2 Diabetes



## All of Us Researcher Workbench: **Access to Row-Level Data for Analysis**

#### ResearchAllofUs.org/Data-**Tools/Workbench/**

#### LEARN MORE ABOUT THE DATA AVAILABLE Explore the data available through the Data Browser, which provides interactive views of aggregate-level participant data. Learn about individual-level data access tiers and the Researcher Workbench tools. STEP STEP 5 4

STEP

VERIFY YOUR IDENTITY

USING LOGIN.GOV

Verify your identity using Login.gov.

You may need to provide an SSN

and a state-issued ID. Your

institution may also require you to

use an eRA Commons account. If

so, contact your institution directly.

Read more about Login.gov.



CHECK FOR YOUR INSTITUTION'S AGREEMENT

Before you can register, your institution must have a Data Use and Registration Agreement in place with All of Us to ensure data security.



CREATE A RESEARCHER WORKBENCH ACCOUNT

Complete your researcher profile, sign the Terms of Service, and agree to the Privacy Policy.





COMPLETE ALL OF US RESEARCH TRAINING

The mandatory training provides education on conducting responsible and ethical research with data from All of Us participants. Please allow at least one hour to complete.

#### STEP 6 SIGN THE DATA USER CODE OF CONDUCT

The Data User Code of Conduct is an agreement that outlines the program's expectations for researchers.



Individual Biospecimen and

**Controlled Tier** (Available Now) <u>No obvious PII. Genomics, real dates, eventually</u> Clinical Narrative data, and more

**Registered Tier** (Available Now) Surveys, EHRs, Physical Measurements, shifted dates Exceeds HIPAA Safe Harbor Standards

> Public Tier (Available Now) Summary Statistics Aggregate Counts



# A big thank you to our 530,000+ participants!

@AllofUsResearch @AllofUsCEO #JoinAllofUs



# **Panel Discussion**

## How Institutions can Benefit from Accessing the All of Us Database





KiTani P. Lemieux, PhD, MS Associate Professor and PI,

- College of Pharmacy
- Division of Basic
   Pharmaceutical Sciences



Kaneisha Akinpelumi, MS Associate Vice President - Office of Research & Sponsored Programs

#### Baylor College of Medicine

DEPARTMENT OF MOLECULAR & HUMAN GENETICS



Debra Murray, PhD Associate Professor and PI,

- Co-Director Office of Community Engagement and Diversity
- Director Education and Diversity Programs, Human Genome Sequencing Center



Laura Rosales, EdD, MBA Administrator and Co-I, Department of Molecular and Human Genetics at Baylor College of Medicine



Kim Worley, PhD Professor

- Vice Chair for Research Affairs
  - Basic and Translational
- Chair Elect Faculty Senate, Baylor College of Medicine



# Data Use and Registration Agreements: An Overview

### Data Use and Registration Agreements: An Overview



#### **Cassie Springer, MPH**

Senior Health Services Research Analyst Data Research Center Vanderbilt University Medical Center



# The All of Us Researcher Workbench Contracting Process From Request to Completion

All of Us, the All of Us logo, and "The Future of Health Begins with You" are service marks of the U.S. Department of Health and Human Services.

- 1. What is the DURA?
- 2. What is the DURA Contracting Process?
- 3. What does the Access Timeline look like?
- 4. What are the policy responsibilities of the signing institution, in order to remain compliant under the agreement?
- 5. What are typical stumbling blocks for access?
- 6. What are Frequently Asked Questions from Contracting Contacts?

## 1. What is the All of Us Data Use and Registration Agreement (DURA)?

- A completed Data Use and Registration Agreement (DURA) allows researchers to access the *All of Us* Researcher Workbench with institutional sign-off
- DURAs provide data access to any U.S.-based academic or health care institution, nonprofit organization, or government entity (such as NIH)
- There are 2 types: individual and institutional data use agreements
  - The rider for the controlled tier is optional
- Signed DURAs can be found here: <u>https://www.researchallofus.org/institutional-agreements/</u>
- If your institution is not listed, you can submit an <u>Access Request Form</u> and we will reach out to the contracting contact you provide

# 2. What is the All of Us DURA Contracting Process?

2 STEP		EXERCISE WORKSENSER         Create your account         Please complete Step1 of 3         For access to the All of Us Research Program data, your institution needs to have signed a Data program that enables us to provide their researchers with access to the Research Workbench
CHECK FOR YOUR INSTITUTION'S AGREEMENT	CONTRACT	All fields are required unless indicated as optional Select your institution Publicly displayed Your institution will be notified that you have registered using your institutional credentials.
<u>Check that your institution has</u> <u>signed the Data Use and</u> <u>Registration Agreement</u> . If your institution is not listed, please fill out <u>the form</u> to initiate the process.		Alabama Agriculture and Mechanical University Albert Einstein College of Medicine All of Us Program Operational Use Arizona State University Arkansas State University Asian Health Coalition  PREVIOUS NEXT

- 1. Researcher completes access request form
- 2. Access Team at Vanderbilt University Medical Center (VUMC) reaches out to the researcher's contracting contact with further information
- **3.** Institution signs DURA; notifies the Access Team
- **4.** Access Team adds institution to the Researcher Workbench



**5.** Access Team notifies researcher and provides next steps

# 3. What is the Access Timeline for Registered & Controlled Tiers?

1-2 business days following

executed DURA

officer who will fully execute the contract.

1-2 days business days Timeline determined 1-2 days business days following receiving partially 1-2 business days by institution following processing executed DURA following request **Researcher Submits Contracting Contact Communication with** Execution of **Access Granted** Internal processing **Access Request Form** outreach **Contracting Contact** agreement and • Upon executing the • The VUMC Access completion of agreement, the VUMC • The researcher can Team process the The VUMC contracting • Until the VUMC registration form request and shares it officer reaches out to access team adds the complete a request by contracting officer researcher's institution selecting "submit a with their VUMC the contracting contact receives the partially • The researcher's to the Researcher request" on the contracting officer provided in the request executed agreement, contracting contact Workbench and **Institutional Agreements** with background they follow up with the sends the partially provides next steps to page of the Research information, agreement researcher's contracting executed agreement the original requester(s). Hub template, and next contact every 2 weeks. and registration form to steps. the VUMC contracting

# 4. What are the Policy Responsibilities of the Signing Institution?

- Through the DURA, your institution accepts responsibility for the actions of data users from your institution, including their compliance with the program rules outlined in the Data User Code of Conduct (DUCC).
- Your institution also accepts additional responsibilities to help protect *All of Us* participant privacy.
- If someone from your institution violates the DUCC, we may notify your institution to make you aware of any penalties they may be subject to or remediation steps they must take.
- As the institutional point of contact, you are expected to communicate with *All of Us* and users as needed on DUCC compliance-related issues.

### 5. What are Typical Stumbling Blocks for Access?

- Researchers provide a contracting contact that is unresponsive to the Access Team or do not know why they are contacted
- Contracting teams take significant time internally to discuss the agreement
- Contracting contacts change, retire, switch roles
- Researchers lose interest in the data set over time
- Researcher cannot complete ID verification via Login.gov during registration

# 6. What are Frequently Asked Questions from Contracting Contacts?

- If my institution signed an institutional agreement, how do researchers from my institution access the Researcher Workbench?
- Can my institution specify different acceptable email domains for the Registered and Controlled Tiers?
- How do I know which researchers from my institution are using the Researcher Workbench? How do we monitor authorized data users accounts under our institutional agreement?
- What registration steps do authorized data users need to complete to gain access to the *All* of *Us* Dataset?

## **Questions?**



## **Breakout Rooms**

## **Breakout Rooms**

Breakout Rooms	Moderators
<ol> <li>Troubleshooting the DURA Process</li> </ol>	Cassie Springer & Ryan Hale
<ol> <li>Leveraging the All of Us Dataset to Enhance Research Capacity at Your Institution</li> </ol>	Danielle Wilfong & Rubin Baskir
<ol> <li>Utilizing the Researcher Workbench</li> </ol>	Ashley Green & Gage Rion

# All of Us Institutional Onramp Event October 3, 2022

Breakout Room #2

Leveraging the All of Us Dataset to Enhance Research Capacity at Your Institution

Presented by Rubin Baskir, PhD. and Danielle Wilfong, M.S.

## **Benefits of Registration to Researchers**

Available to all registered users

#### Resources

#### All of Us offers data and more.

Registered users have access to:

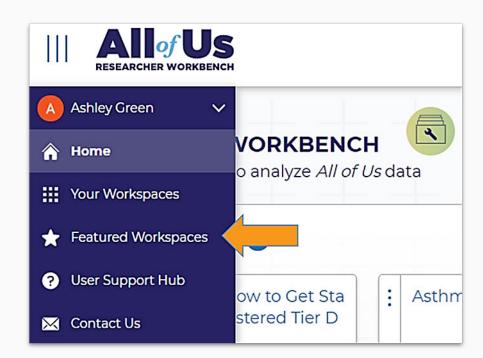
- Platform and tools
- \$300 in initial credit
- User support materials and staff
- Opportunities to showcase work

#### **Platform Uses**

#### All of Us is for publishing and more.

- Team science
- Dissertation
- Thesis
- Poster presentations
- Class projects
- Self-practice (especially data science)

## The Featured Workspaces can help you during your research



Tutorial Workspaces	RESEARCHER WORKBENCH WORKSPACE LIBRARY
Demonstration Projects	Tutorial Workspaces
ដំដេ Phenotype Library	These workspaces provide instructions for key Researcher Workbench components a execute them.
	How to Work with All of Us Physical Measurements Da ta
	READER Last Changed: 09/28/21, 01:33 PM Last Changed: 10/05/20, 04:04 PM
	How to Run Python Notebo oks in the Background       How to Work with All of Us Survey Data (tier 5)
	READER Last Changed: 07/12/21, 09:25 AM Last Changed: 11/17/21, 10:05 AM

## We also provide regular office hours & webinars

#### Support Desk

#### Send us your questions.

Email us or use our "Help" icon to:

- Resolve technical issues
- Ask questions about our data or the research program
- Give us feedback or make suggestions
- and more...

#### Response in 1-2 business days

support@researchallofus.

#### **New User Orientation**

#### Zoom in for a live orientation.

Webinar objectives:

- Understand data & data organization
- Learn how to get started on Researcher Workbench
- Learn how to utilize the User Support Hub

**Office Hours** 

#### Get live, virtual help with questions.

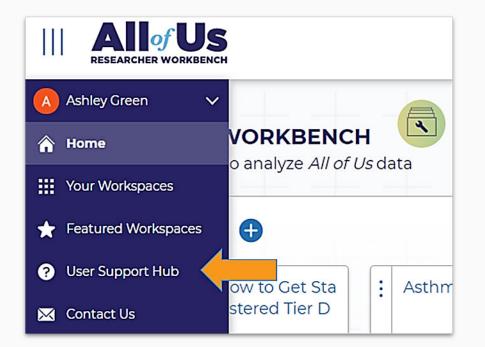
Ask your questions live:

- Workflow implementation questions
- Data refreshers and updates
- Billing questions
- and more...

**Bi-Weekly (Tues., Fri. 1-2pm CST)** *link emailed to all registered users (recordings are also available)* 

Monthly link emailed to all registered users

## The Support Hub and Team are here to help you!



### https://aousupporthelp.zendesk .com/hc/en-us

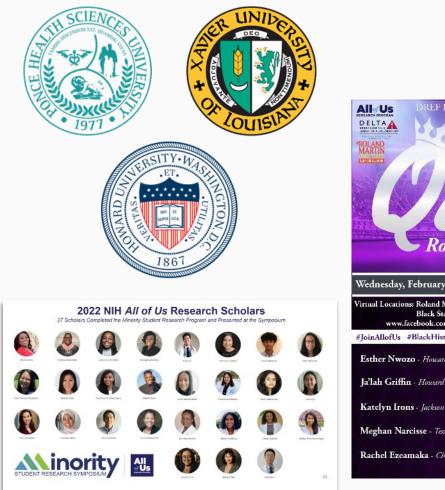
#### Welcome to the User Support Hub Q Search Popular searches: data dictionary, office hours, dataset, CDR, billing Important Information for Workbench Users Featured Workspace: Data Wrangling Accessing Genomic Data in All of Us Controlled Improvements to the User Support Hub Tier Out data science team released a featured For those of you who've been here before, you may workspace targeted to new users that covers basic Outline Timing of this change What to expect How have noticed the User Support Hub (USH) has data wrangling in the W... to change your code Summary If you are not using undergone some change... the workbench t ... Explore All of Us Researcher Workbench Resources 11 . -OP Getting Videos Working with Credits and Genomics Started Data Billing Tutorials, guestio Resources to bett and answers, and understand the Looking for some How to use the All of Information about information about conomic dataset and help with our data Us Researcher paying for analysis and tools? Start here the dataset Workbench how to analyze it. and storage costs. Other Data Policy Surveys News Community Forum Resources to Resources for EHR Information about Release notes, understand and wearable, physical our user policies and service notification Post your questions analyze self-reported measurement, and associated and upcoming events and comments for participant data. geolocation data. procedures. other users here. Knowledge Archived Base Support Materials base for research support **Useful Articles**

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## Early Efforts in Increasing Access to a Diverse Researcher Community

- All of Us invested \$500,000 in **2** Administrative Supplement Funding to Support RCMIs
- All of Us Academy (administered by partner, Research Triangle Institute) issued grants to 6 HBCUs totaling \$425,000
- Partnered with Delta Research & Educational Foundation to award \$439,000 towards capacity building for 10 HBCUs
- Partnered with Pyxis Partners and granted \$250,000 toward Researcher Engagement





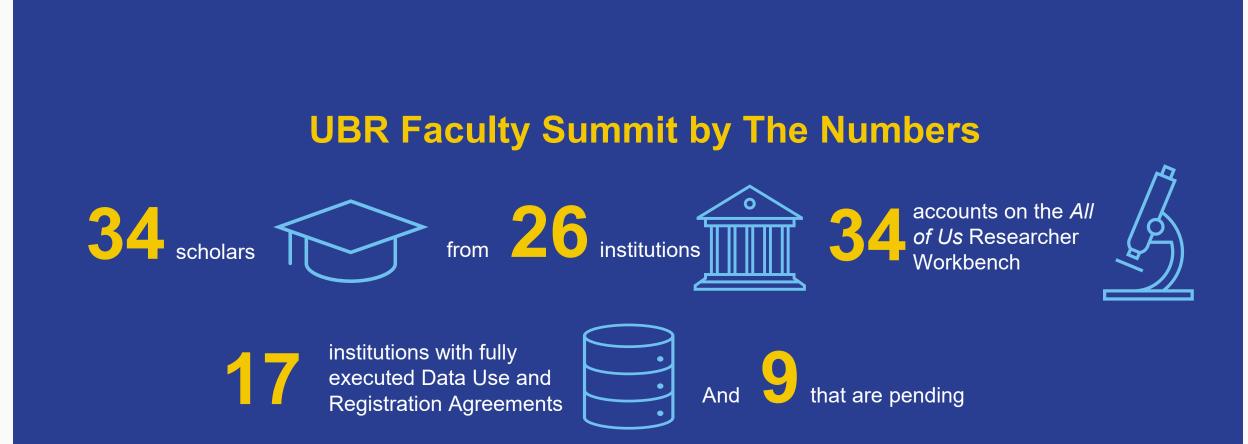
# Engaging a Diverse Researcher Community using the Researcher Workbench (Examples)



#### Ensuring Data Access to Researchers at *ALL* Levels:

- Partnering with the University of Utah to develop *All* of Us data curriculum for high school students
- Engaging, mentoring, and supporting nearly 30 minority students through the Research Scholars Program and 2021 Minority Student Research Symposium
- Working with Baylor College of Medicine to build and support multidisciplinary research teams
- Facilitating research opportunities for community and citizen scientists with National Library of Medicine

## **Baylor College of Medicine's UBR Faculty Summit**



## NIMHD/All of Us Research Program Notice of Special Interest Award



Hispanic/Latinxs coexisting chronic health conditions, mental illness and social determinants of health PI: Jose Torres-Ruiz



Black Bodies Matter: An examination of Diabetes, Peripheral Artery Disease and Limb Amputation Disparities in Black and White participants of the All of Us Research Program PI: Gene D'Amour



Howard University Research Center for Minority Health and Health Disparities PI: William Southerland



# **Open Opportunities**

## **Baylor Seed Funding**

Baylor College of Medicine

## 1. UBR Faculty Summit Seed Awards

## **UBRFS** multidisciplinary research teams

- Track 1-Project Initiation Awards (\$30K) (up to 3 awards)
- Track 2-Community Engagement Awards (\$15K) (up to 2 awards)
- Track 3-Collaboration Sustainability Awards (\$2K) (up to 12 awards)

DEPARTMENT OF MOLECULAR & HUMAN GENETICS 2.

S 2. External Pilot Awards (\$30K) (up to 3 awards) "Established" Diverse College and University research teams

## Research Opportunity Announcement: NIH All of Us Engagement, Communications, and Enrollment Partnerships

#### Research Opportunity Announcement (ROA): NIH All of Us Engagement, Communications, and Enrollment Partnerships

Note: There have been new actions to this contract opportunity. To view the most recent action, please click **here**.

A

**Contract Opportunity** 

Notice ID OTA-22-006

**Related Notice** 

#### Department/Ind. Agency HEALTH AND HUMAN SERVICES, DEPARTMENT OF Sub-tier NATIONAL INSTITUTES OF HEALTH Office NIH OFFICE OF THE DIRECTOR



The purpose of this announcement is to fund organizations who can help *All of Us* build its cohort of volunteers who reflect the rich diversity of the United States and are actively engaged as partners. These funded organizations will help design and implement strategies to raise awareness of the program through community and health care provider organizations, drive increased enrollment of participants, foster regular communication with participants, and engage the research community to use the data being gathered.

Award Project Duration: Award periods are anticipated to be up to five (5) years but may be shortened or extended as needed.

**Pre-Submission Webinar:** A webinar will be conducted on June 27, 2022 at [Time TBD]. Registration information will be posted here once it is available.

White Paper Deadlines: This ROA will remain open for three (3) years from its issue date, unless otherwise updated via an amendment, and includes multiple white paper (WP) submission deadlines. All WP deadline times are 3:00 PM Eastern Time:

Area 2: Engage researchers from diverse backgrounds, including those from underrepresented groups, to utilize the <i>All</i> of Us data resources to advance precision medicine	Up to \$1M
Calendar Year 2022 WP Deadlines – Nov 30, 2022	Calendar Year 2023 WP Deadlines – Feb. 28, 2023 – Aug. 31, 2023 – May 31, 2023 – Nov. 30, 2023

## New Investigators to Promote Workforce Diversity in Genomics, Bioinformatics, or Bioengineering and Biomedical Imaging Research (R01 Clinical Trial Optional)

<u>New Investigators to Promote Workforce Diversity in Genomics,</u> <u>Bioinformatics, or Bioengineering and Biomedical Imaging Research</u> (R01 Clinical Trial Optional) RFA-HG-21-041

This Funding Opportunity Announcement (FOA) solicits R01 grant applications that propose independent research projects that are within the scientific mission areas of the National Human Genome Research Institute (NHGRI), National Institute of Biomedical Imaging and Bioengineering (NIBIB), and *All of Us* Research Program (*All of Us*). This program is intended to support Early Stage Investigators and New Investigators from diverse backgrounds, including those from groups underrepresented in the health-related sciences.

#### Submission Due Date:

February 22, 2023 February 22, 2024 5:00 PM Applicant's time zone

