Improving Health for *All of Us*, Precisely One Person at a Time

Presented by Kelli Ham, Community Engagement Librarian, National Network of Libraries of Medicine Pacific Southwest Region
21st Century Cures Act

Signed into law by President Obama in December 2016, with significant funding for:

- Precision Medicine
- Opioid Epidemic
- Beau Biden Cancer Moonshot
- Behavioral Health
- Regenerative Medicine
What Is Precision Medicine?

**Precision medicine** is an emerging approach for disease treatment and prevention based on individual variability in **lifestyle**, **environment**, and **biological makeup**.

This is contrast to a one-size-fits-all approach, in which disease treatment and prevention strategies are developed for the average person.
Not a New Concept

- Prescriptions for eyeglasses vs reading glasses
- Blood transfusions based on blood type
- Targeted therapies for cancer tumors based on genetic mutations

UNDERSTANDING PRECISION MEDICINE

In precision medicine, patients with tumors that share the same genetic change receive the drug that targets that change, no matter the type of cancer.

Using the genetic changes in a patient’s tumor to determine their treatment is known as precision medicine.

Credit: National Cancer Institute
The All of Us Research Program

The future of health begins with All of Us

The All of Us Research Program is a historic effort to gather data from one million or more people living in the United States to accelerate research and improve health. By taking into account individual differences in lifestyle, environment, and biology, researchers will uncover paths toward delivering precision medicine.

https://allofus.nih.gov
Many groups are historically underrepresented in biomedical research. To turn this around, the program:

- One million or more volunteers from all backgrounds and walks of life
- Longitudinal study with participant engagement for 10 years or more
- All health statuses; this is not a disease cohort
- Participants will complete surveys and may be asked to provide blood and urine samples, access to electronic health records, and eventually data from wearable technologies
Coming to a Location Near You!

- Health Provider Organizations – Phoenix, Sacramento, San Francisco, San Diego
- Federally Qualified Health Centers – San Ysidro
- The All of Us Journey Traveling Education Center
What Does this Mean for Libraries?

- Members of the public will want information – about precision medicine, genetics, and the *All of Us* Research Program.
- NNLM regions have subaward funding opportunities for public library partnerships
- Local public libraries will have opportunities to provide more health-related information, citizen science, and health programs in general
- Members of the public may need to use computers and the Internet at local libraries to complete surveys
- NNLM will a resource for health science librarians as precision medicine research efforts take shape in your institutions
- Most importantly – NNLM and its partners are not recruiting participants; we are providing information, services and resources to enhance the capacity of public libraries to improve health literacy and overall health in their communities
Questions?

Learn more at allofus.nih.gov

Sign up for updates: joinallofus.org

@AllofUsResearch    #JoinAllofUs

Kelli Ham, kkham@library.ucla.edu