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# Future Directions of the NHGRI Analysis, Visualization, and Informatics Lab-space (AnVIL)

**Virtual Workshop**  
**Oct 29, 2021 12pm-5pm ET**

# Future Directions of the NHGRI AnVIL Workshop

- NHGRI will be recording the whole workshop, including the breakout room discussions, and share the recordings and meeting's materials publicly
- Please use the “raise your hand” feature in Zoom for questions and comments
- Please mute yourself, unless you are presenting, or speaking to share a comment or question
- Participants will be automatically redirected to the breakout room for which they are discussants, or based on the choice provided in the registration form
- Workshop folder - [bit.ly/AnVILWorkshop](https://bit.ly/AnVILWorkshop)
- Contact Jerryl Somani at [jsomani@mail.nih.gov](mailto:jsomani@mail.nih.gov) or on Zoom for any Zoom related issue







# Future Directions of the NHGRI Analysis, Visualization, and Informatics Lab-space (AnVIL)

## Welcome and Overview of the Workshop

Valentina Di Francesco  
On behalf of the NHGRI AnVIL Team

# What is the AnVIL?

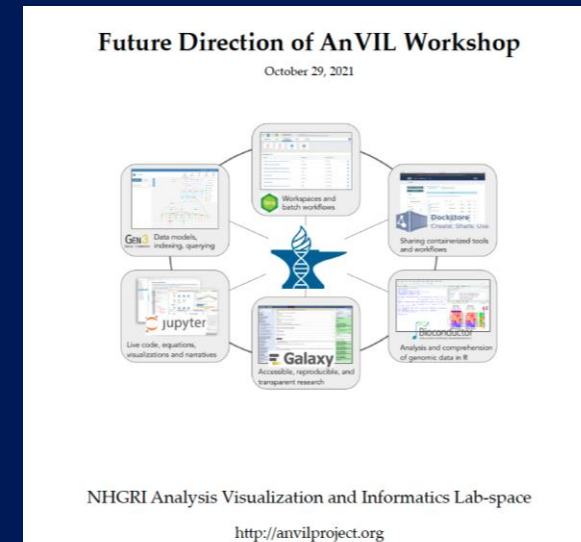
NHGRI established AnVIL to provide a cloud-based platform for the storage, sharing and analysis of large genomic and related datasets.

AnVIL aims to support the collaboration and data sharing needs of NHGRI programs and initiatives

AnVIL aims to provide an environment that facilitates training and development of the genomic research workforce and genomic data scientists

Extensive background information in the workshop's booklet

**AnVIL is a 3 year old program**



## Workshop's Goals

Identify gaps, challenges and future opportunities related to NHGRI's investments in the AnVIL's cloud-based infrastructure, tools and services.

# Agenda

12:00 - 12:10 pm

## Welcome and Overview of the Workshop

*Valentina Di Francesco, M.S. (NHGRI) and Dr. Ken L. Wiley Jr., Ph.D. (NHGRI)*

12:10 - 12:20 pm

## Data Science at the Forefront of Enhancing Diversity in Genomics

*Vence L. Bonham Jr., J.D. (NHGRI)*

12:20 - 12:35 pm

## Introduction to AnVIL

*Anthony A. Philippakis, M.D., Ph.D. (Broad) and Dr. Michael C. Schatz, Ph.D. (Johns Hopkins)*

12:35 - 1:50 pm

## Session 1

### Breakout Room: Data Submission and Consortia Engagement

*Moderators: Adam Resnick, Ph.D. (Children's Hospital of Philadelphia) and  
Valentina Di Francesco, M.S. (NHGRI)*

12:35 – 12:40 pm Moderator Introductions

12:40 – 12:55 pm AnVIL Presentation: *Brian O'Connor, Ph.D. (Broad)  
and Frederick Tan, Ph.D. (Carnegie)*

12:55 – 1:40 pm Discussion

1:40 – 1:50 pm Prepare Breakout Report

### Breakout Room: Analysis Tools

*Moderators: Marylyn Ritchie, Ph.D. (University of Pennsylvania) and  
Ken L. Wiley Jr., Ph.D. (NHGRI)*

12:35 – 12:40 pm Moderator Introductions

12:40 – 12:55 pm AnVIL Presentation: *Vincent Carey, Ph.D. (HMS)  
and Anne O'Donnell-Luria, M.D., Ph.D. (Broad)*

12:55 – 1:40 pm Discussion

1:40 – 1:50 pm Prepare Breakout Report



# Agenda

1:50 - 2:15 pm

## Reports Back from Session 1

*Rapporteurs: Adam Resnick, Ph.D. and Marylyn Ritchie, Ph.D.*

2:15 - 2:30 pm

## Break

2:30 - 3:45 pm

## Session 2

### Breakout Room: Infrastructure

*Moderators: Karen M. Davis, Ph.D. (RTI International)  
and Carolyn M. Hutter, Ph.D. (NHGRI)*

2:30 - 2:35 pm Moderator Introductions

2:35 – 2:50 pm AnVIL Presentation: *Jeremy Goecks, Ph.D. (OHSU)  
and Benedict Paten (UCSC)*

2:50 - 3:35 pm Discussion

3:35 - 3:45 pm Prepare Breakout Report

### Breakout Room: Outreach and Training

*Moderators: Siddharth Pratap, Ph.D. (Meharry Medical College)  
and Christopher Wellington, B.S. (NHGRI)*

2:30 - 2:35 pm Moderator Introductions

2:35 – 2:50 pm AnVIL Presentation: *Jeffrey Leek, Ph.D. (JHU)  
and Tiffany Miller, Ph.D. (Broad)*

2:50 - 3:35 pm Discussion

3:35 - 3:45 pm Prepare Breakout Report

3:45 - 4:10 pm

## Reports Back from Session 2

*Rapporteurs: Karen L. Davis, Ph.D. and Siddharth Pratap, Ph.D.*

4:10 - 5:00 pm

## Summary and Closing

*Valentina Di Francesco, M.S. and Ken L. Wiley Jr., Ph.D.*





# Who is Here?

- Invited Participants
  - Assigned discussants to the Breakout Rooms on page 5 of the workshop booklet
- AnVIL Key Personnel
- NHGRI AnVIL Staff
- Other NHGRI Staff as listeners

# NHGRI AnVIL Staff



**Valentina  
Di Francesco, M.S.**  
AnVIL Co-Lead



**Elena M.  
Ghanaim, M.A.**  
Policy Analyst



**Carolyn M.  
Hutter, Ph.D.**  
Director of the Division  
of Genome Sciences



**Teri Manolio,  
M.D., Ph.D.**  
Director of the Division  
of Genomic Medicine



**Tiffany Rolle, Ph.D.**  
Science Education and  
Engagement Fellow



**Shurjo K. Sen,  
Ph.D.**  
Program Director



**Ana Pilar Stevens**  
Scientific Program  
Analyst



**Helen Thompson**  
Scientific Program  
Analyst



**Christopher  
Wellington, B.S.**  
Program Director



**Ken L. Wiley, Jr.  
Ph.D.**  
AnVIL Co-Lead

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Questions?







## **Vence L. Bonham Jr., J.D.**

**Acting Deputy Director**  
National Human Genome Research Institute

**Associate Investigator**  
Social and Behavioral Research Branch

**Data Science at the Forefront of  
Enhancing Diversity in Genomics**







**Anthony A. Philippakis, M.D., Ph.D.**  
Broad Institute,  
Principal Investigator



**Michael C. Schatz, Ph.D.**  
Johns Hopkins University,  
Principal Investigator

## **Introduction to AnVIL**

