



# AnVIL

## NHGRI Analysis, Visualization, and Informatics Lab-space

### Are you unable to access data from NIH dbGaP due to new security requirements?

Rely on AnVIL's built-In, certified compliance — At no extra cost.



AnVIL is a federally certified secure environment for human genomic data, trusted across NIH. It meets the NIST SP 800-171 security standards required as of January 25, 2025 for controlled-access data (NOT-OD-24-157).



FedRAMP  
✓ FedRAMP Authorized

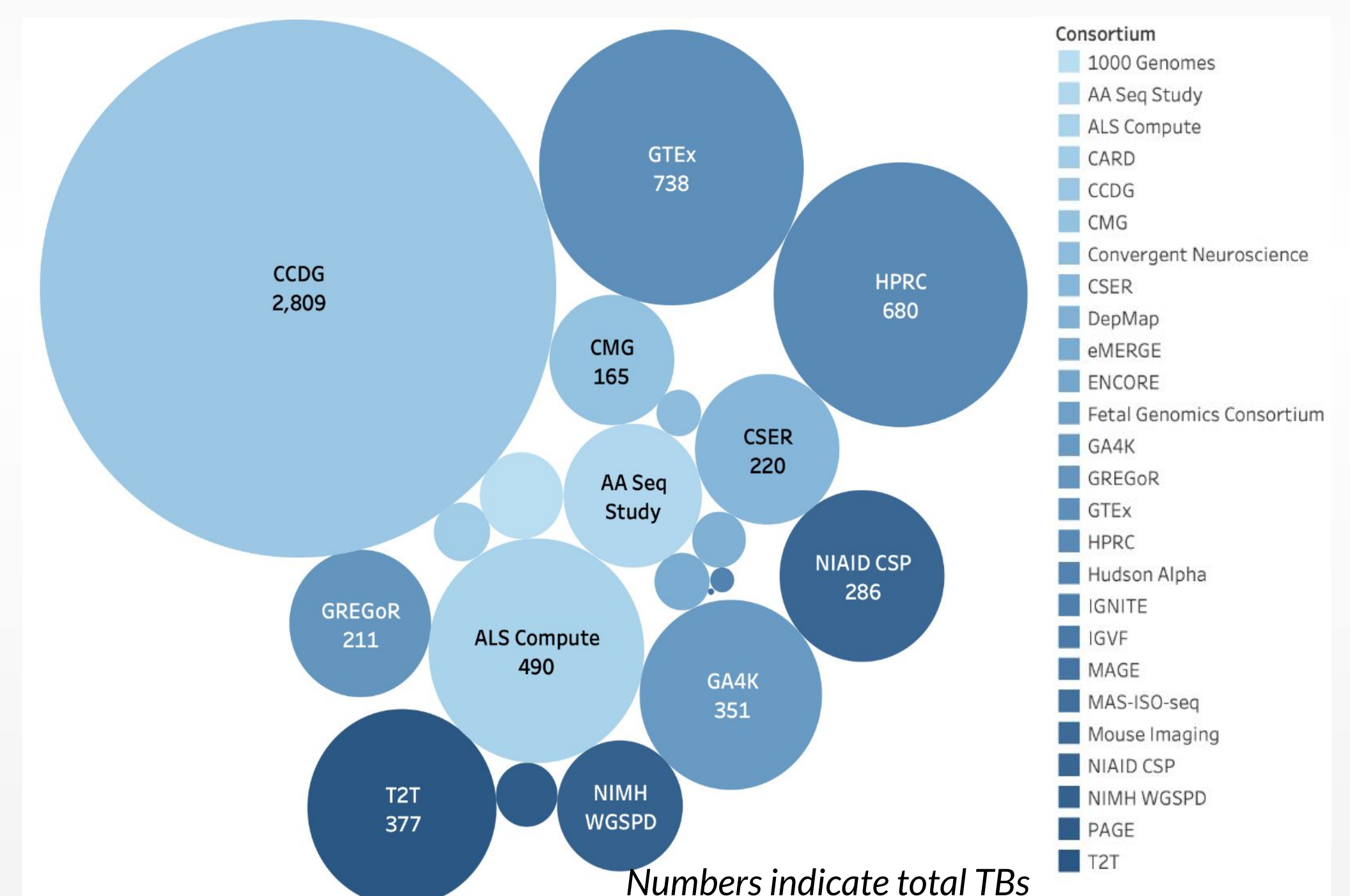
AnVIL is also the NIH-designated data repository for NHGRI-funded genomic datasets (NOT-HG-24-020). It holds an official Authority to Operate as a FISMA Moderate-impact system and is FedRAMP authorized at the Moderate level, providing researchers with certified compliance at no additional cost.

In addition, AnVIL provides streamlined pathways to import data directly from dbGaP and other NIH repositories into the secure cloud environment — eliminating the need to download controlled data onto local infrastructure.

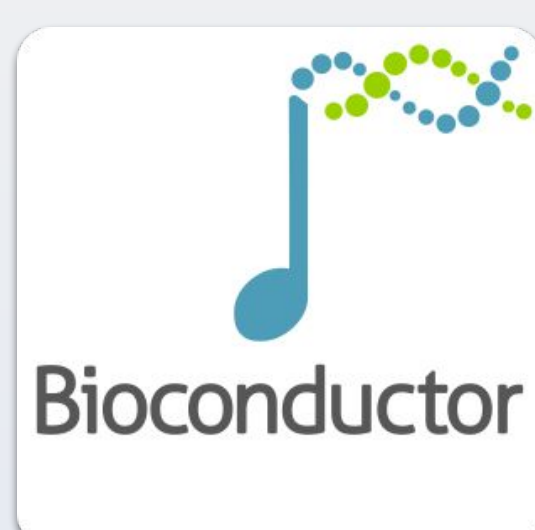
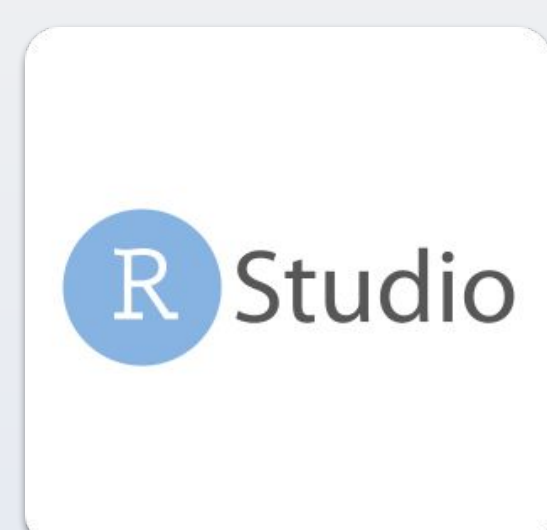
### Access 600k genomes, and nearly 7Pb of data in AnVIL

A key offering of the AnVIL platform is the diverse human genomic datasets available to researchers. Current consortia include:

- Genotype-Tissue Expression (**GTE<sub>x</sub>**)
- Centers for Common Disease Genomics (**CCDG**)
- Electronic Medical Records and Genomics (**eMERGE**)
- Telomere-2-Telomere (**T2T**) consortium
- Human Pangenome Reference Consortium (**HPRC**)
- Genomics Research to Elucidate the Genetics of Rare diseases (**GREGoR**)
- Multi-Omics for Health and Disease (**MOHD**)



### Power your next discovery with AnVIL's scalable compute and tools



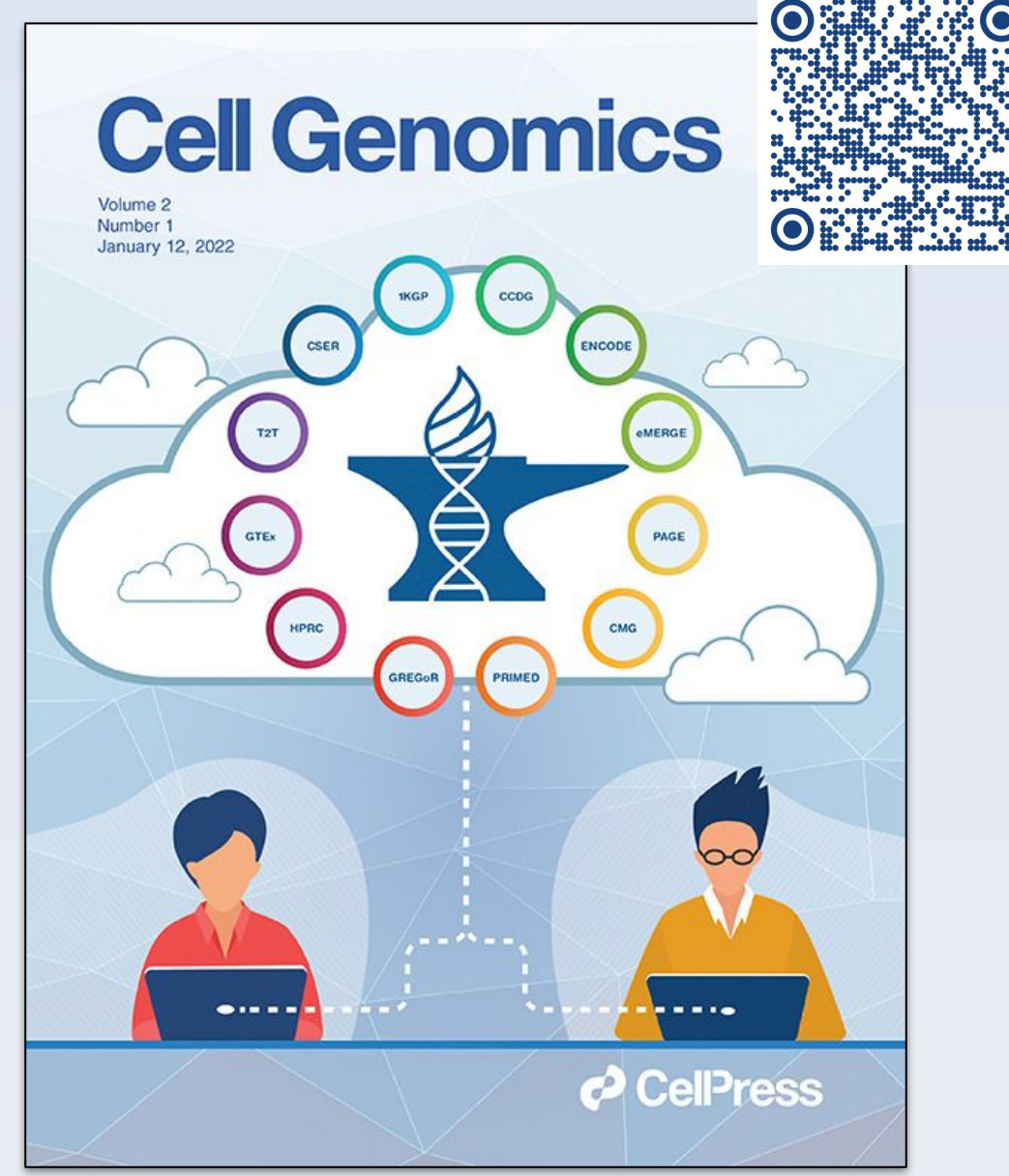
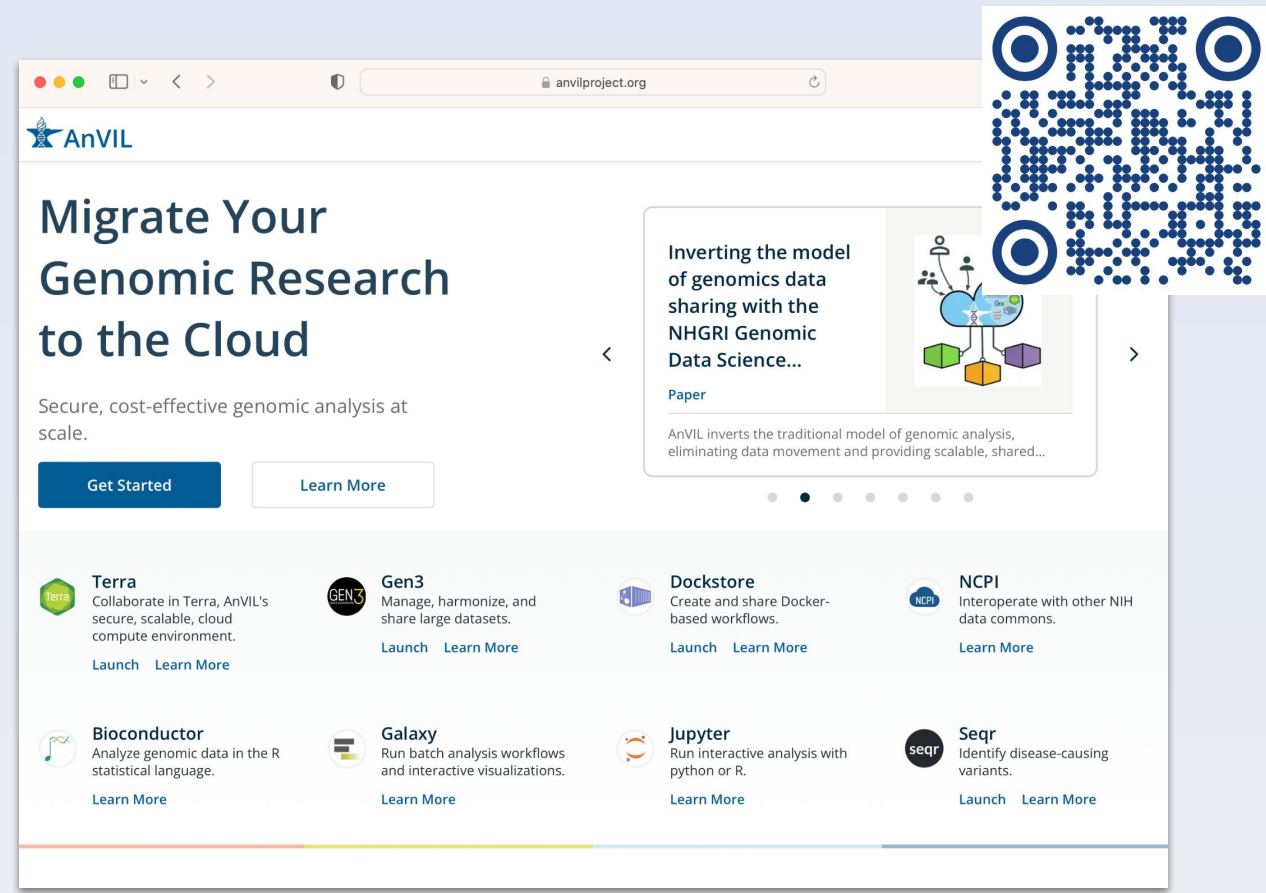
#### Featured analyses on AnVIL

- Variant discovery (SNVs, SVs, Indels, CNVs)
- Differential gene expression (bulk + single-cell)
- Epigenomics (methylation, ChIP-seq)
- GWAS and Polygenic Risk Score analysis
- Machine learning in genomics
- Cancer genomics (somatic, CHIP, fusion detection)
- Infectious disease genomics (COVID-19, malaria, TB, viral insertion)

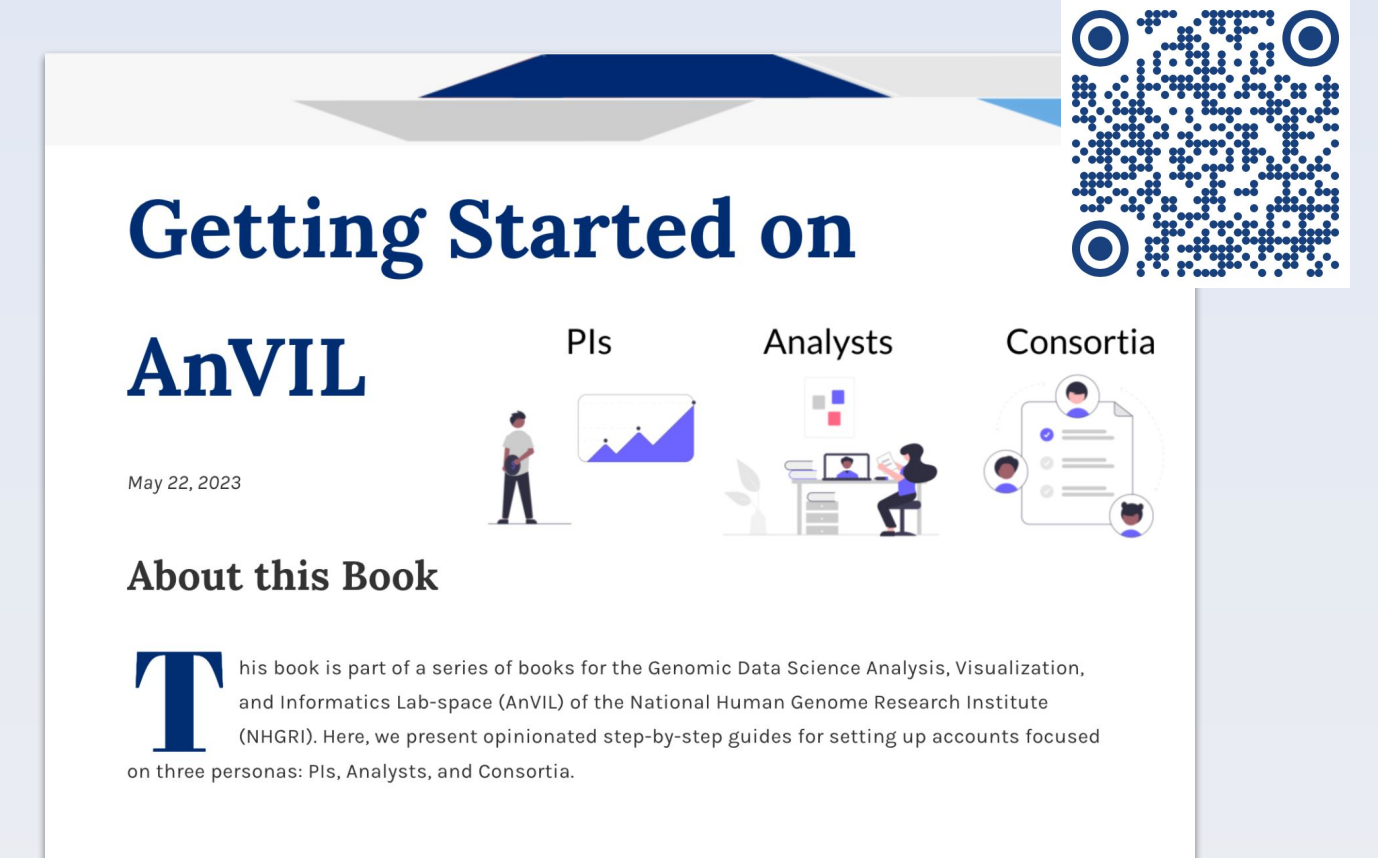


# How do I get started using AnVIL?

Check out the data and tools available at [anvilproject.org](https://anvilproject.org)



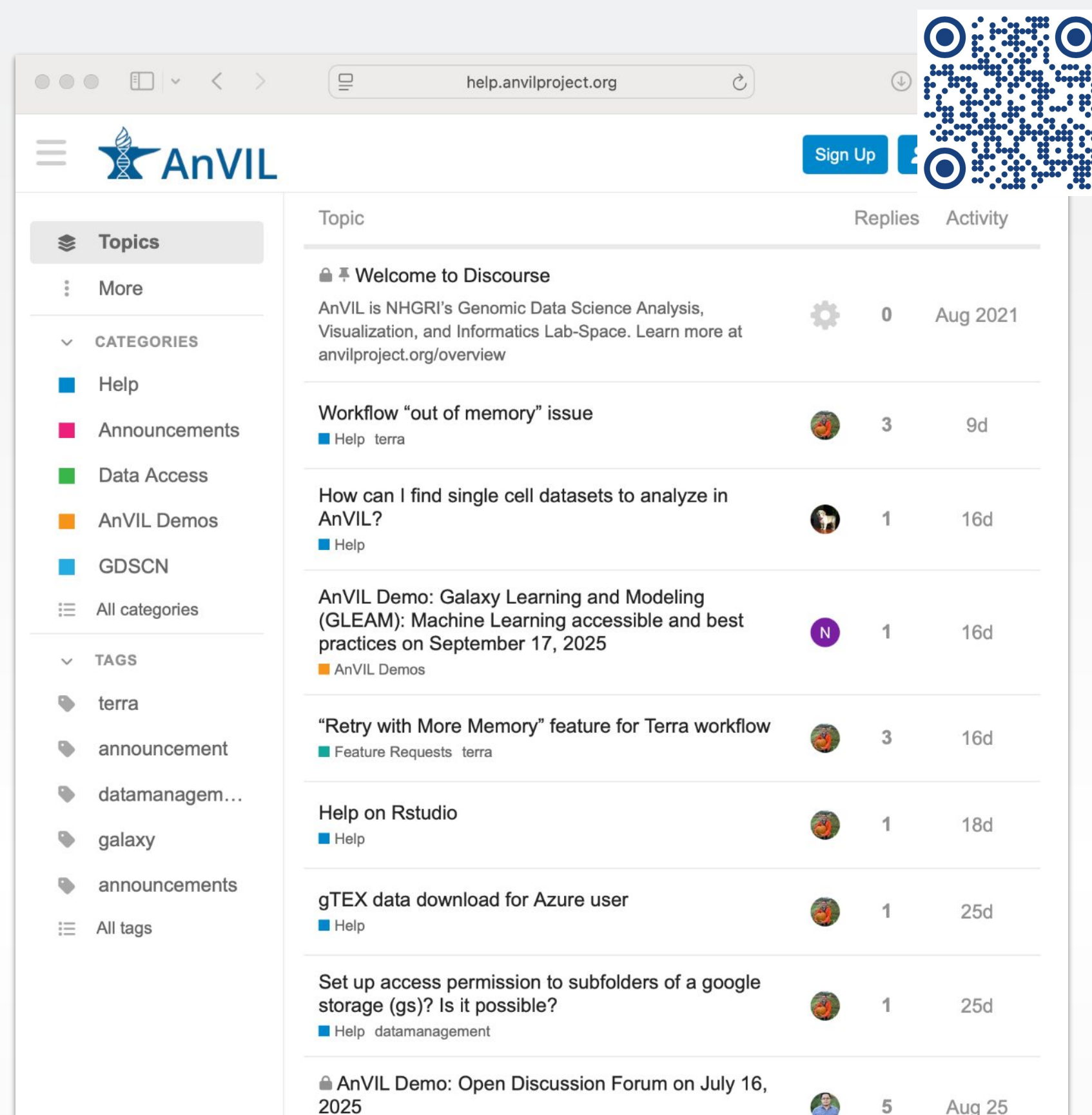
Learn to use AnVIL step-by-step: [hutchdatascience.org/AnVIL\\_Collection](https://hutchdatascience.org/AnVIL_Collection)



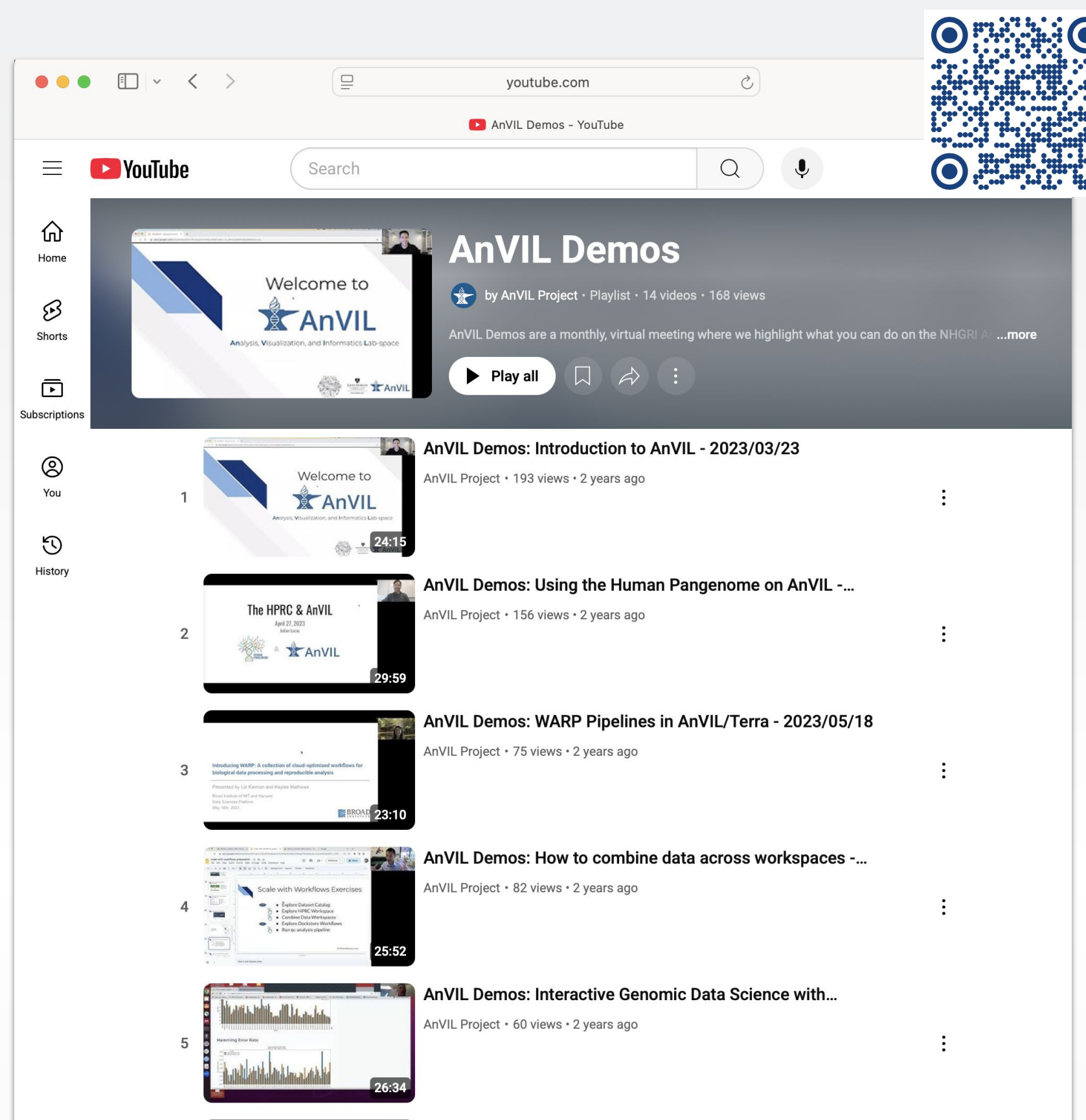
Learn about AnVIL:  
[doi: 10.1016/j.xgen.2021.100085](https://doi.org/10.1016/j.xgen.2021.100085)

## How do I engage with the AnVIL team?

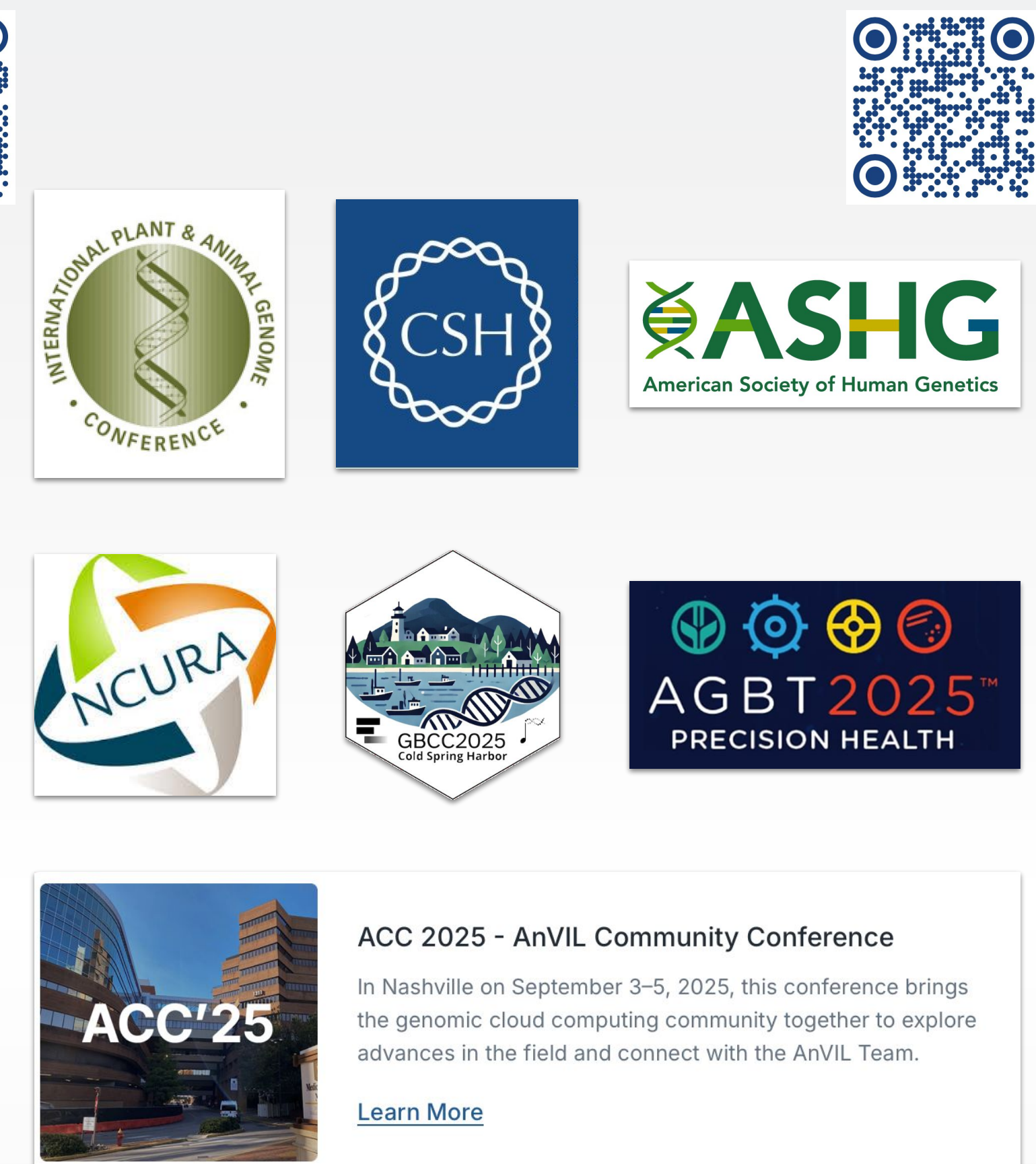
24/7 support on AnVIL help forum



Live and recorded AnVIL Demos



Talks and Workshops



### The All of Us + AnVIL Imputation Service

**Poster Board 2053T**

Wednesday, Oct 16, 2:30 pm - 4:30 pm ET  
Chris Kachulis

### AnVIL: Unified genomics computing environment

**Poster Board 2059T**

Thursday, Oct 16, 2:30 pm - 4:30 pm ET  
Stephen Mosher

### Expanded multi-omic data from the rare disease focused GREGoR Consortium

**ASHG Ancillary Session**

Thursday, Oct 16  
11:45 am - 1:15 pm

Room 102AB, Thomas M. Menino Convention & Exhibition Center (MCEC)

GREGoR, Michael Schatz



@useAnVIL

Questions? Let's talk at [help.anvilproject.org](https://help.anvilproject.org)