

23 April 2021

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Genomic Surveillance:

# At-scale SARS-CoV-2 Sequencing

Brian Krueger  
Labcorp

Coronavirus Standards Working Group

# What should a Coronavirus Standards Working Group do?



Assure development and availability of standards, controls, interlab testing, knowledge to support successful rollout & scaling of 2019-nCoV testing



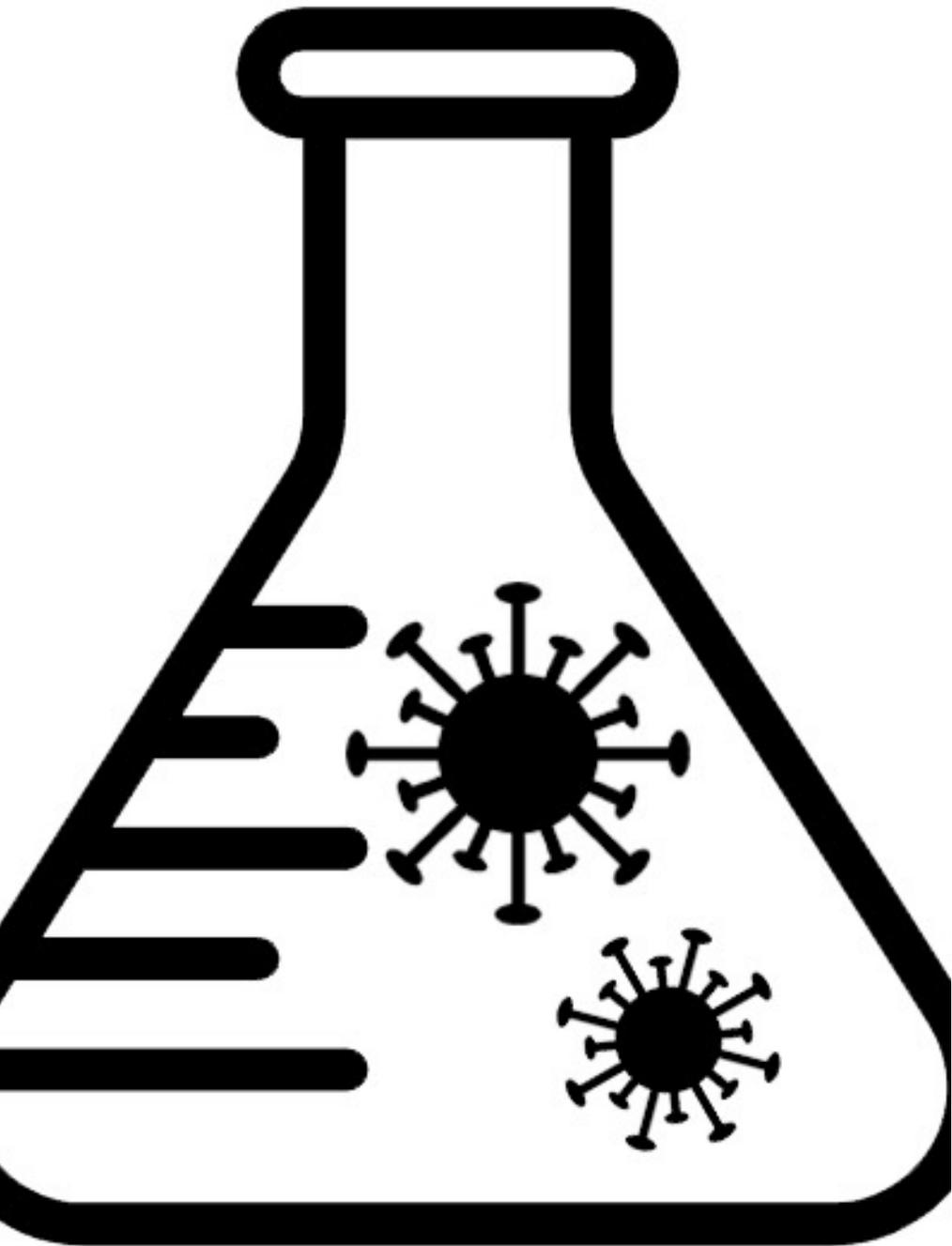
Identify and develop critical infrastructure to support...

- confidence in test results
- interoperability
- scale-up
- long-term capacity



Identify best practices that should be institutionalized

Learn what we need to so next time we have a global network in place ready to make standards.



# Agenda

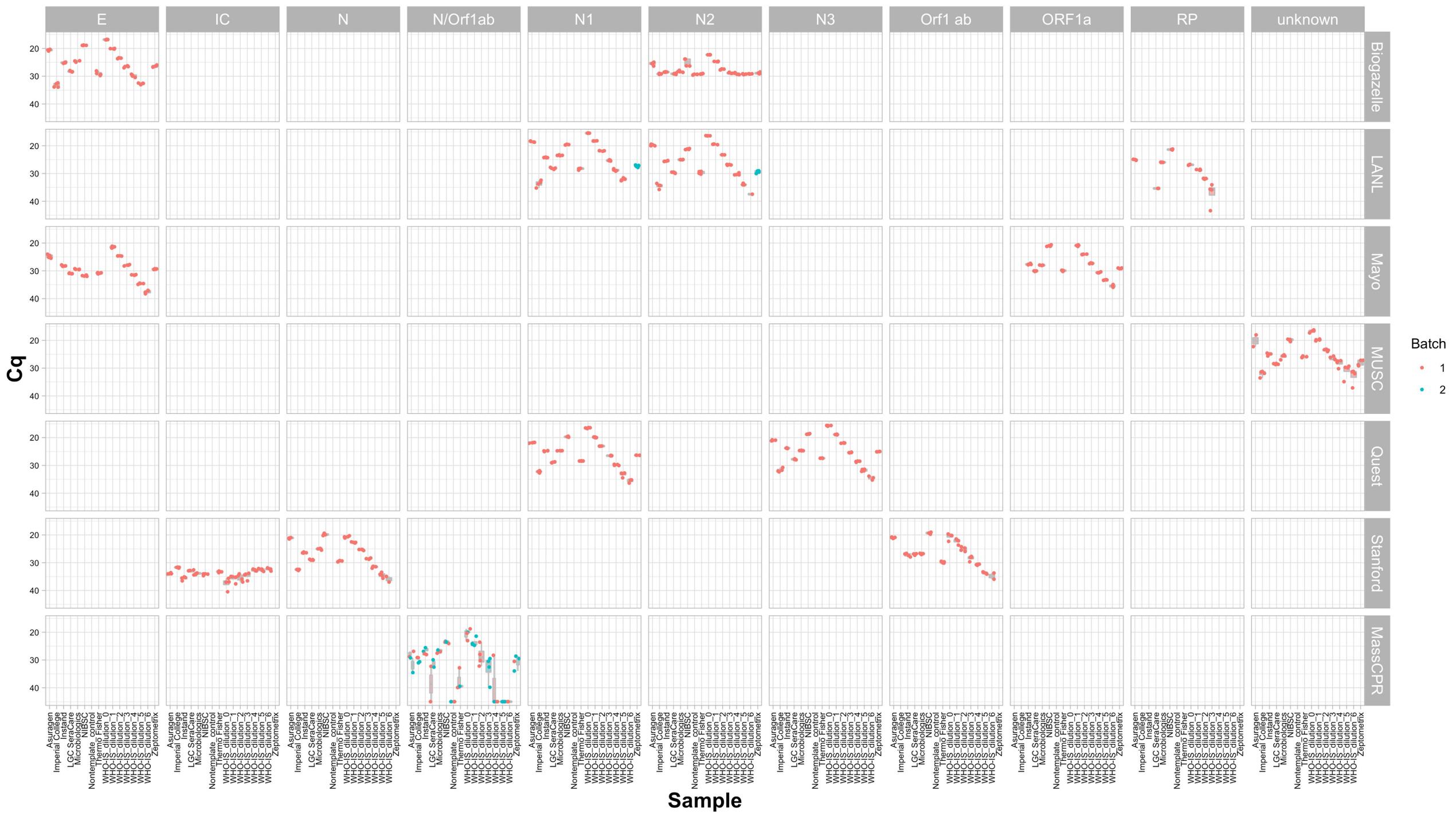
## Updates

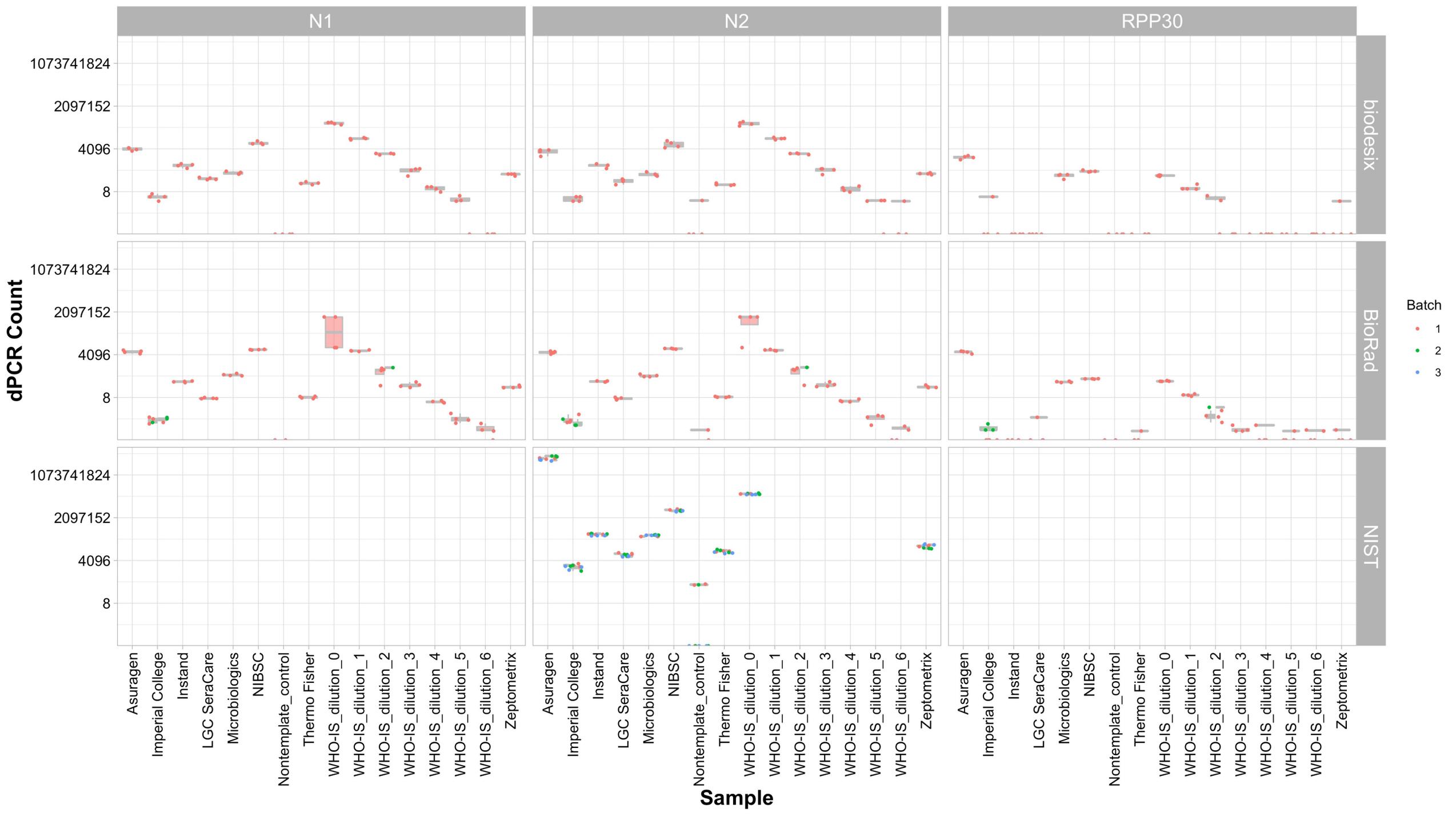
- Viral RNA Harmonization
- Serology Harmonization Study
- Standards for Genomic Surveillance

## SARS-CoV-2 Pandemic Surveillance

- Brian Krueger





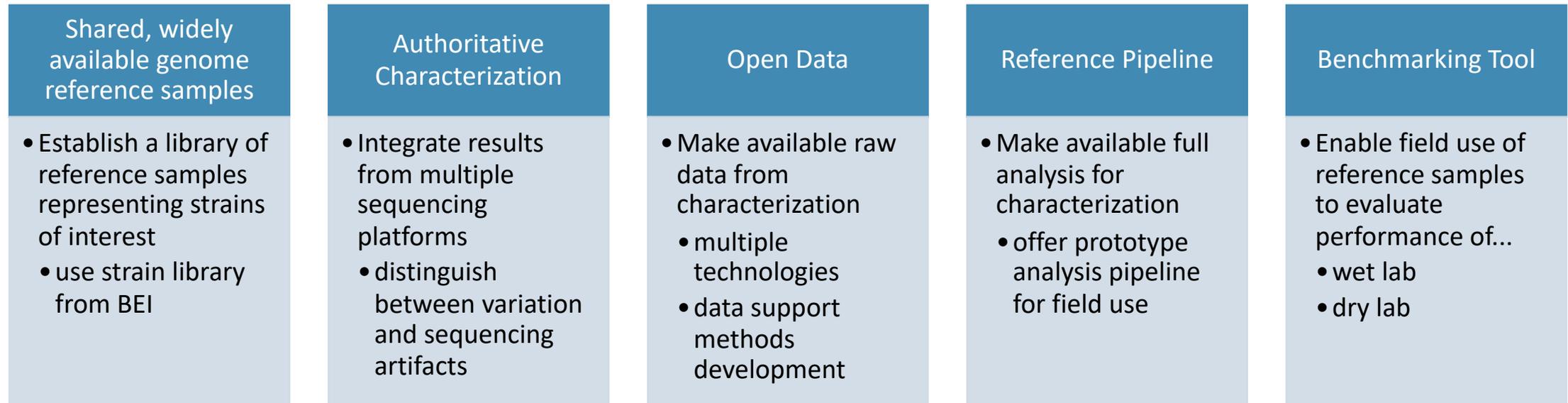


# Serology Harmonization Study

- Team Meeting, 13 April
  - Serology measurements relatively complex
  - Diagnostic applications less mature
    - correlates of protection still being established
  - NCI Serology Task Force established a US Standard
    - Troy Kemp will present next week
- Options going forward
  - CSWG designs and operates a harmonization study as a standards-setting effort
  - CSWG acts as a "network hub" for University of Colorado team's leadership of the study

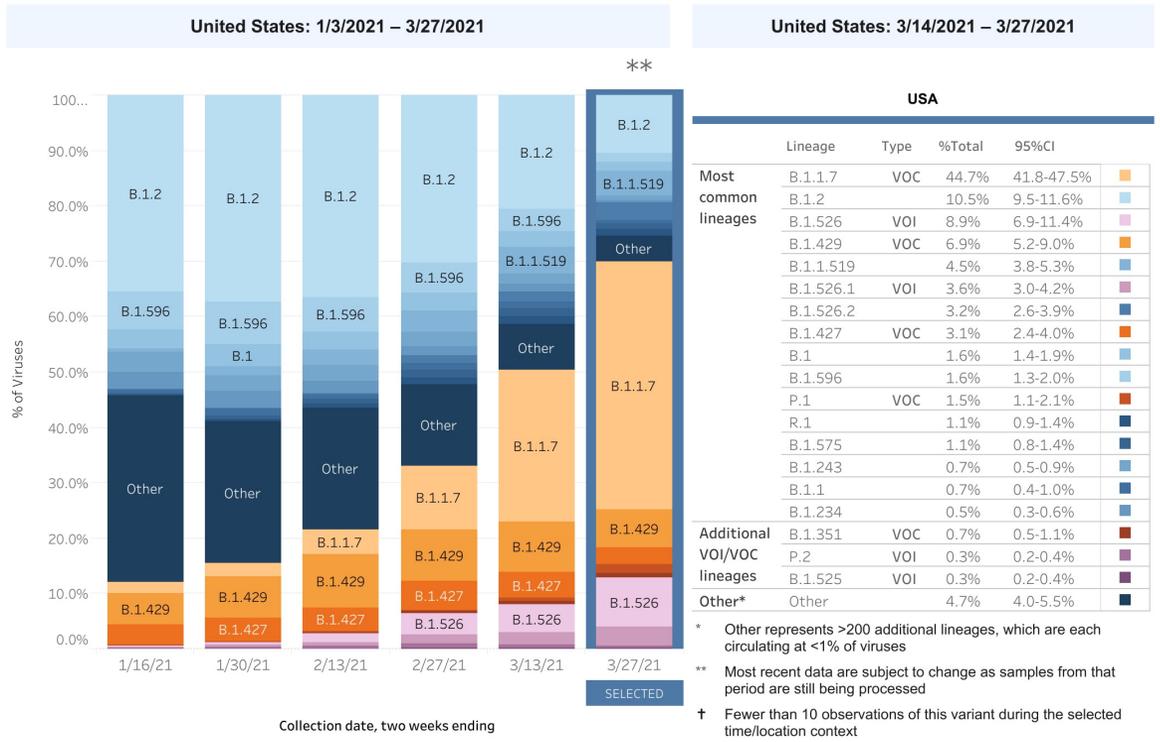
# What can we do to support community to understand & report sequencing data quality?

## *What can we do to be confident in genomic surveillance?*

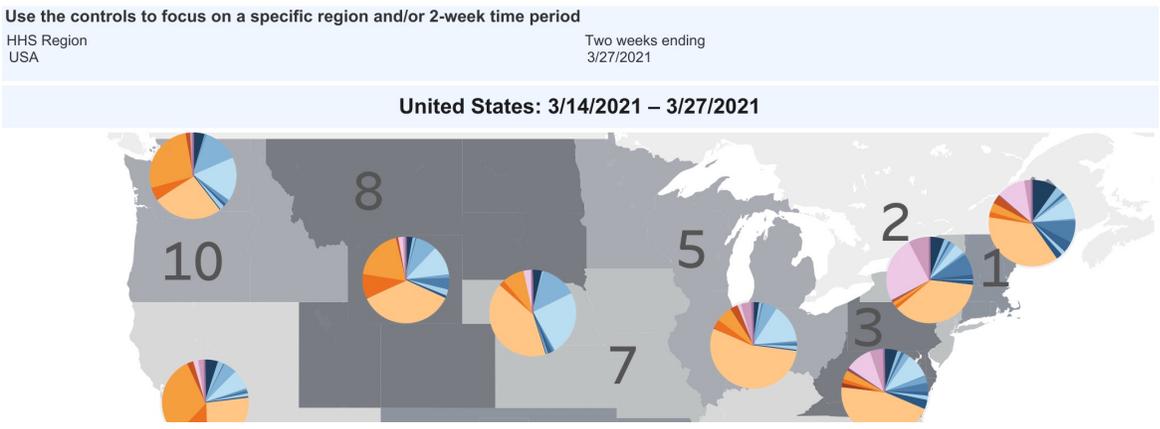


***Deliver technology-agnostic standards for Wet Lab -> Dry Lab -> Public Health***

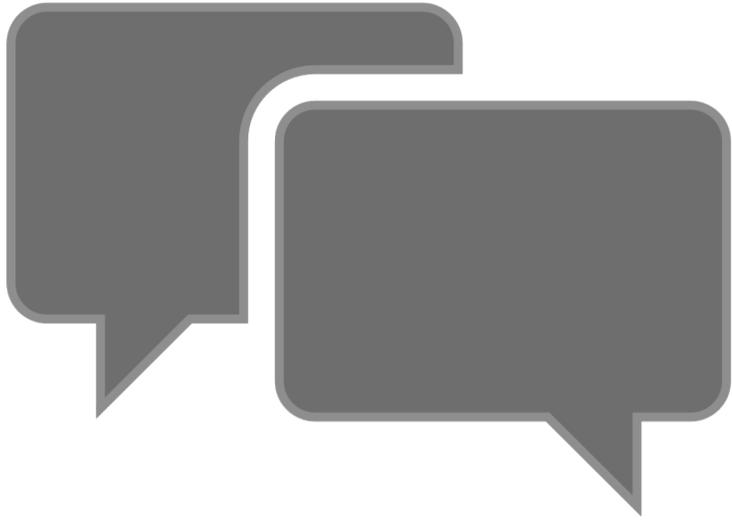




# How RT-PCR Testing Allows Labcorp to Perform National SARS-CoV-2 Pandemic Surveillance



Brian Krueger, Laboratory Corporation of America



Discussion

