

8 May 2020

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University

# 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



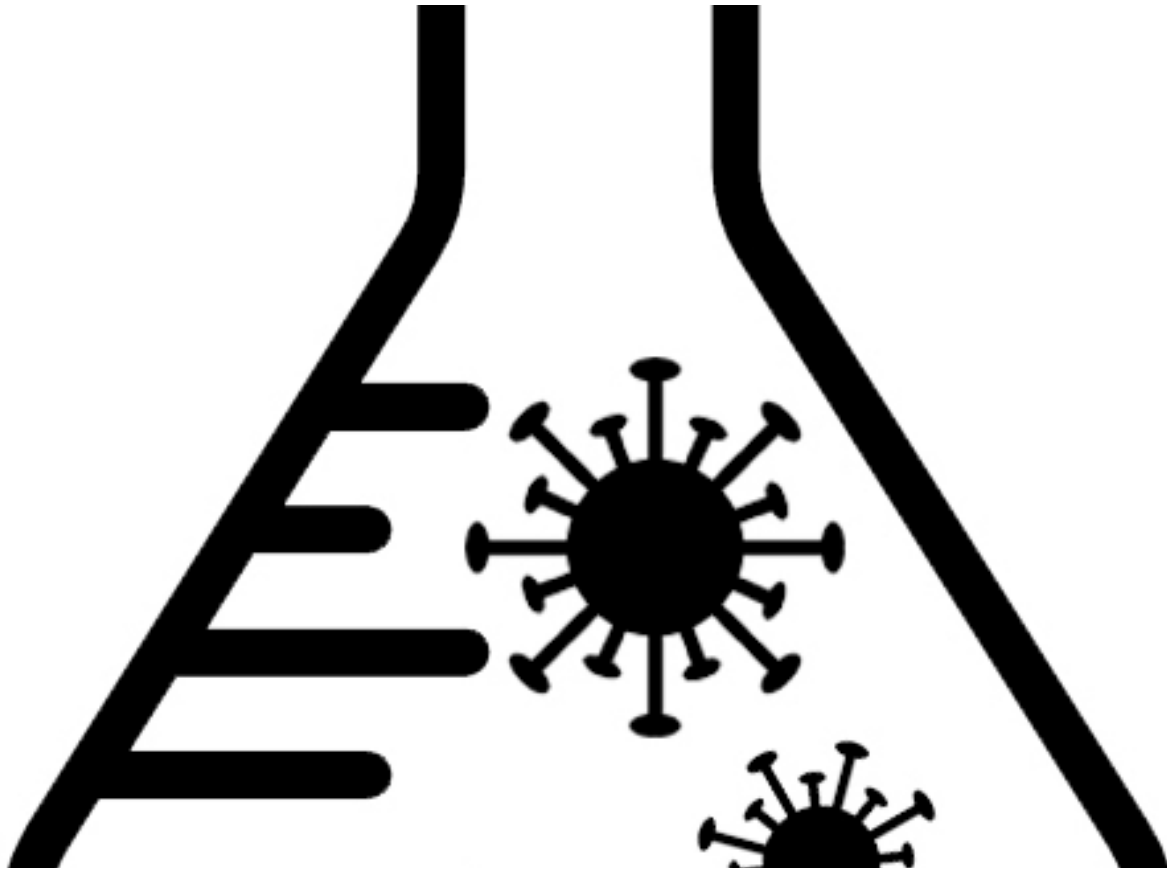
Identify and develop critical infrastructure to support...

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



Identify best practices that should be institutionalized

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



## 8 May Agenda

- Standards and Manuscript Update
  - MIAViC
  - standards database
- Patrick Chain
  - *in silico* evaluation of diagnostic assays
- Russell Garlick
  - Advancing SARS-CoV-2 Virus Testing

## *In silico* Evaluation of Diagnostic Assays

Patrick Chain, LANL

Despite its slow mutation rate, SARS-CoV-2 continues to accumulate mutations as it persists in the human population. It is essential to continuously evaluate PCR-based diagnostic assays as new SARS-CoV-2 genome sequences become available.

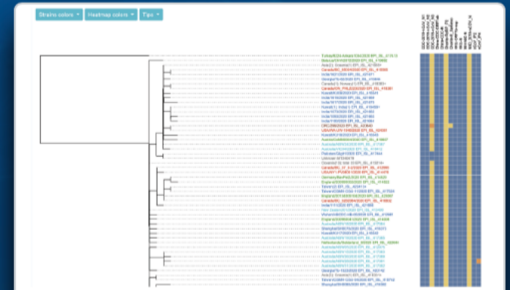
A platform for COVID-19 analytics



**EDGE**  
bioinformatics

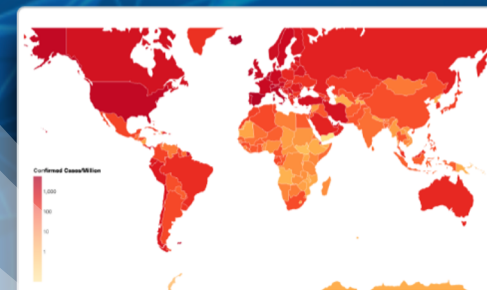
Automated workflow providing SARS-CoV-2 genomes from FASTQ files

EDGE COVID-19



COVID-19 assays screened against available SARS-CoV-2 genomes

Assay Validation

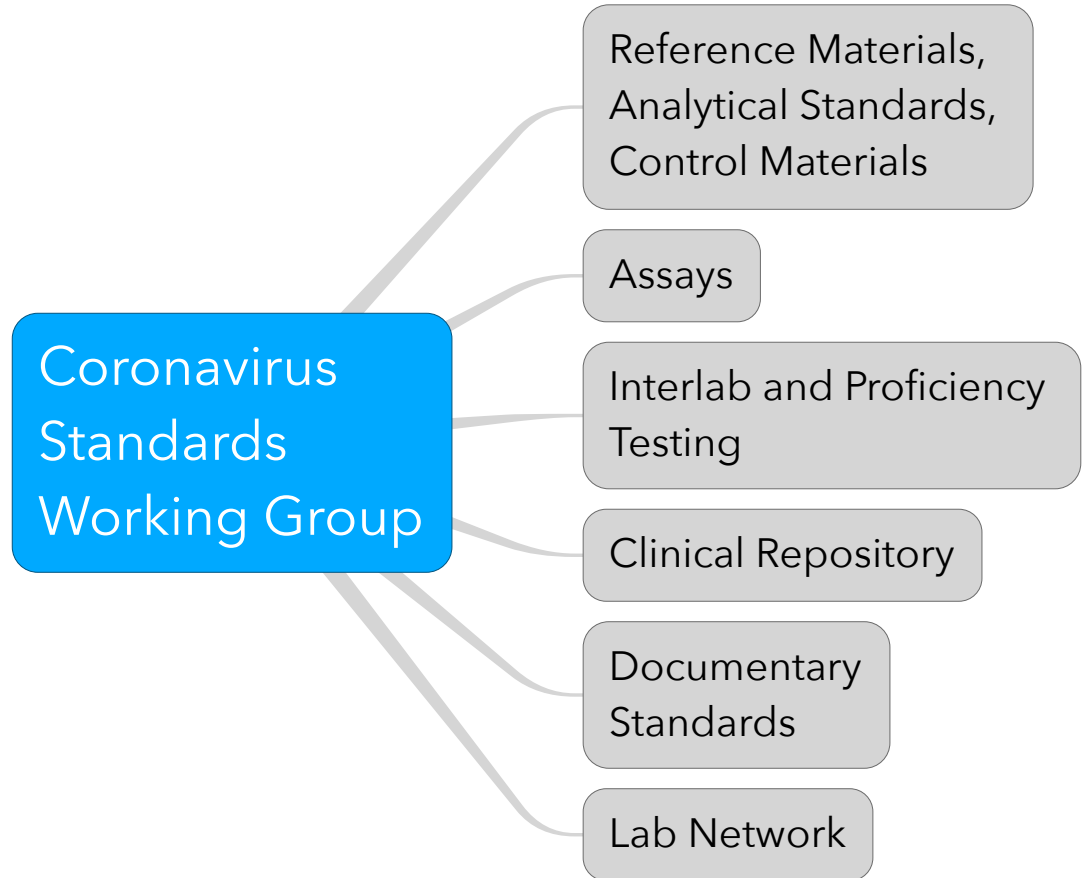


Tracking cases, deaths, and genomes

Cases and Genomic Data

Russell Garlick, Seracare

# Advancing SARS-CoV-2 Virus Testing During the Global Emergency



# All other business



How are we doing?

Communications, planning, engagement, process, operations...

# Discussion

