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Pathogen Genomic Surveillance Workshop Learnings, Harmonization Study Next Steps

Arend Sidow and Marc Salit
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



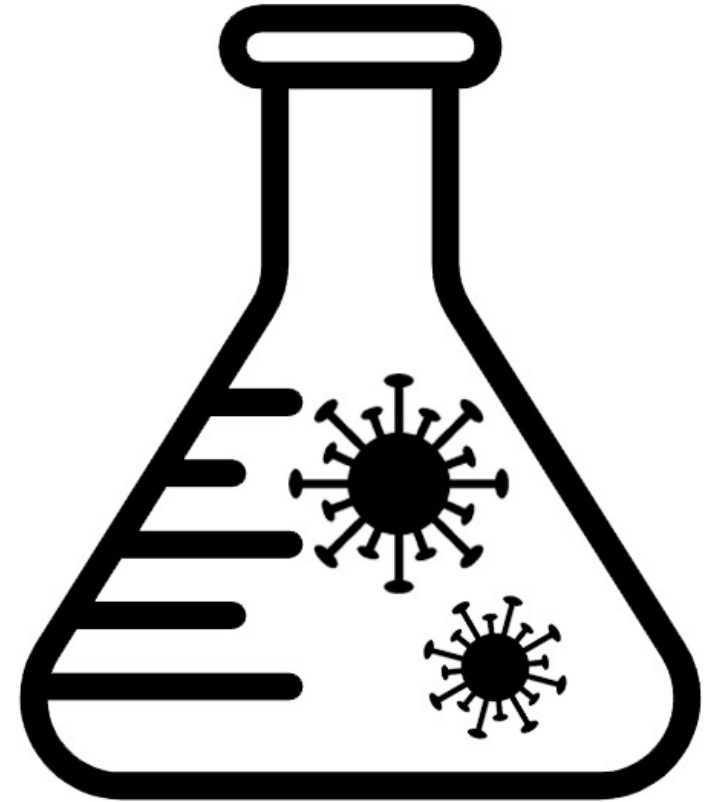
Pathogen Genomic Surveillance

Consultation on findings



Harmonization Study

Experiment to demonstrate utility of comparable standards



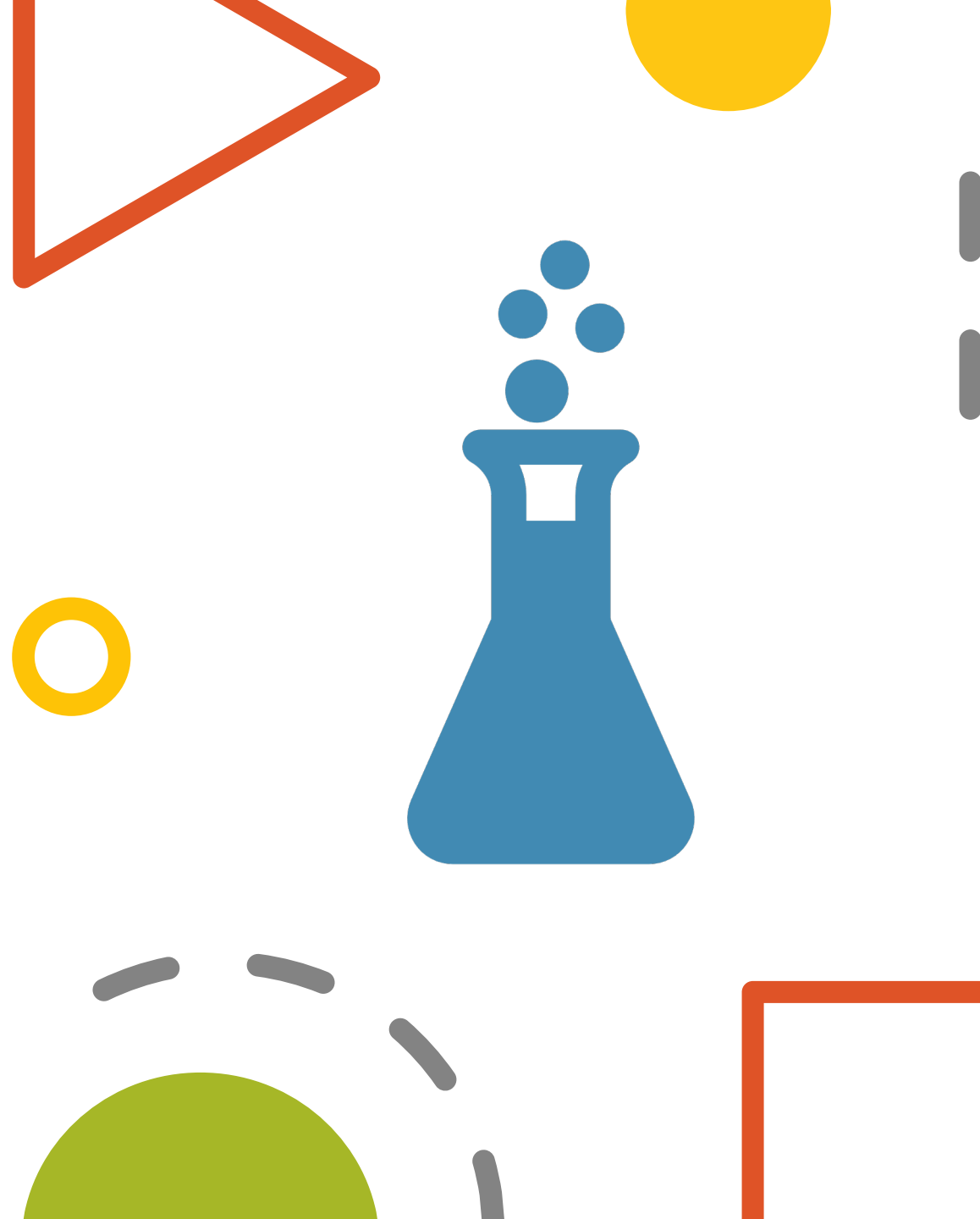
Pathogen Genomic Surveillance

- Rockefeller Foundation-sponsored convening in June 2021 to propose “Standards Architecture”
- Working document in draft
- Summary findings to share



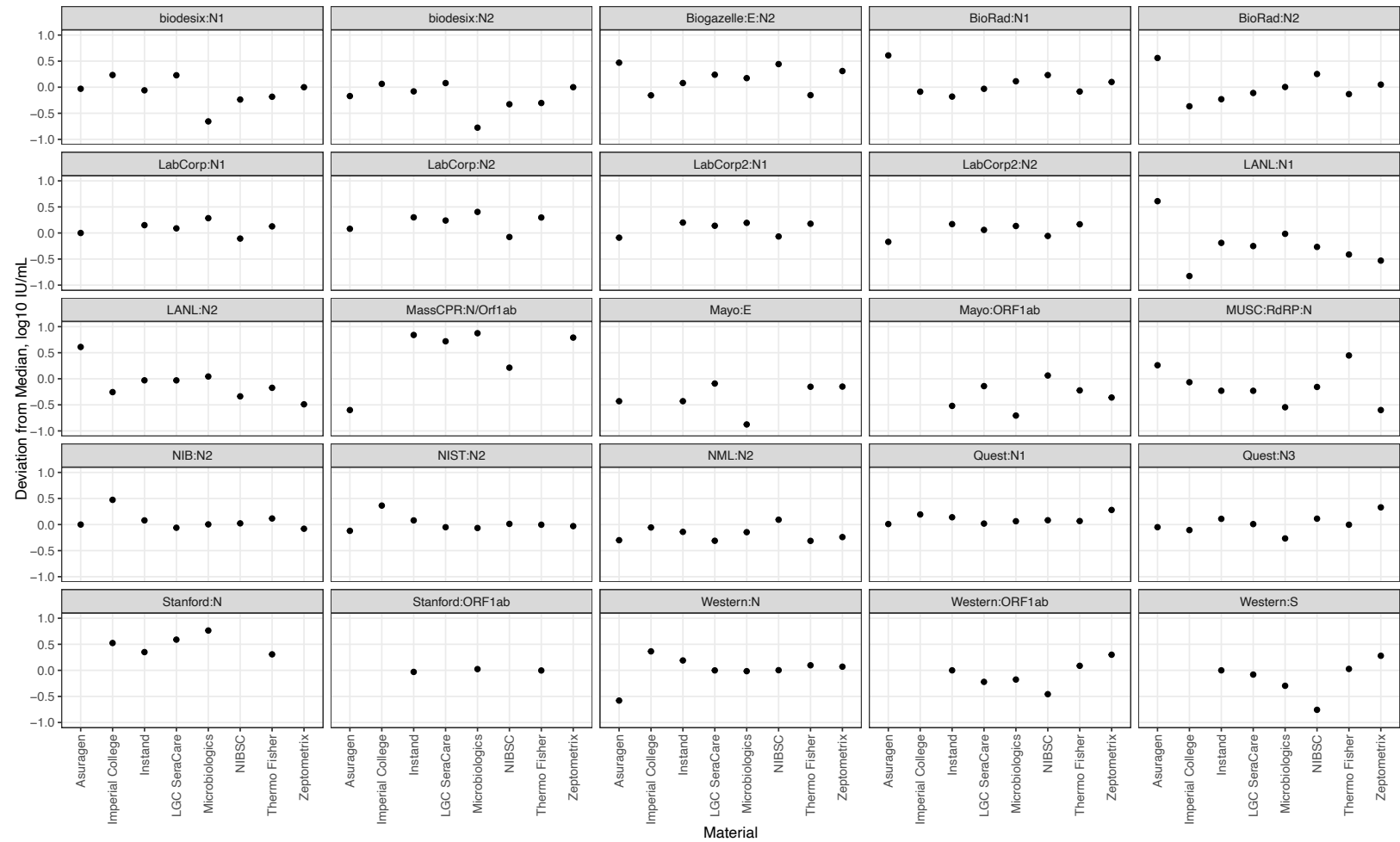
Harmonization Study Update

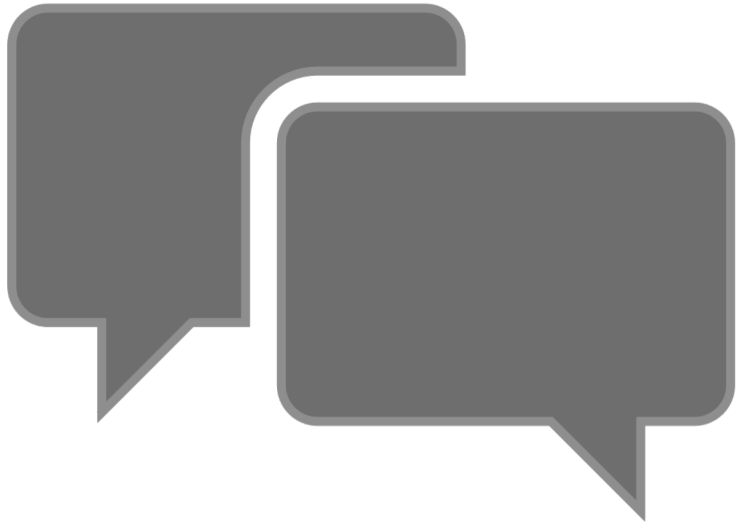
- Results dissemination
 - some updates in dashboard
- Manuscript preparation
 - “Propagating the WHO International Unit for SARS-CoV-2 RNA”
- Experiment to demonstrate utility of comparable standards
 - share archived clinical samples to 3 labs, have them calibrate with harmonized standards
 - demonstrate comparability of viral load of clinical samples
 - in International Units per mL



Examine deviations to try to discover biases

- systematic biases like over extraction should be apparent in deviations
 - plot scaled to median ± 1
- nothing apparent





Discussion

