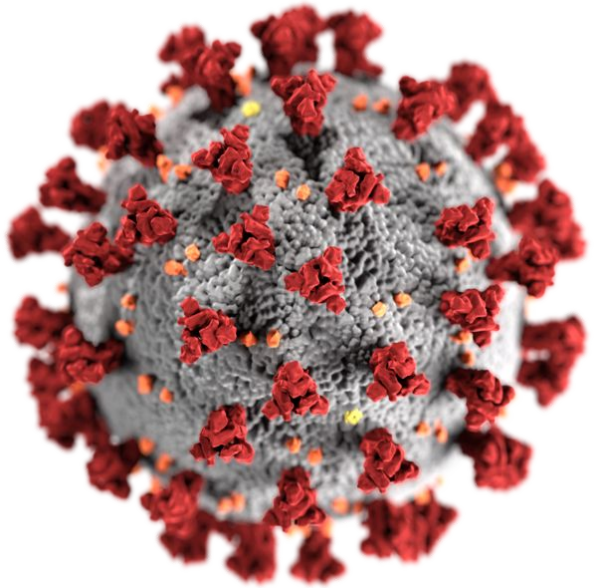
iDigBio
Integrated Digitized Biocollections

Discuss:

Zooming in on COVID19 in our lives



@idbdeb @soltislab

https://bit.ly/covid19digidata4

Deborah Paul, Florida State University; Pamela Soltis, University of Florida

Digital Data IV: Harnessing the Data Revolution ~ Amplifying Collections with Biodiversity Information Science

2 June 2020 virtually via Indiana University

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(Re)inventing “normal”: local to global

In (re)constructing our day-to-day lives, most of us seem to be living in “perpetual beta” both for our work lives and our home lives. We note other changes around us too, in society, economies, nature, and ecosystems.

Change brings challenges ~ and opportunities

This COVID-19 pandemic, zoonoses, and pathogens in general, provide key opportunities to highlight the value of collections and foster much-needed cross-discipline collaboration and changes in standards of practice.

~with these ideas in mind~

We're here to share our experiences and to hear your stories, ideas, insights, thoughts, and concerns.

NSC ALLIANCE

Upham lab of Phylogenetics

American Institute of Biological Sciences

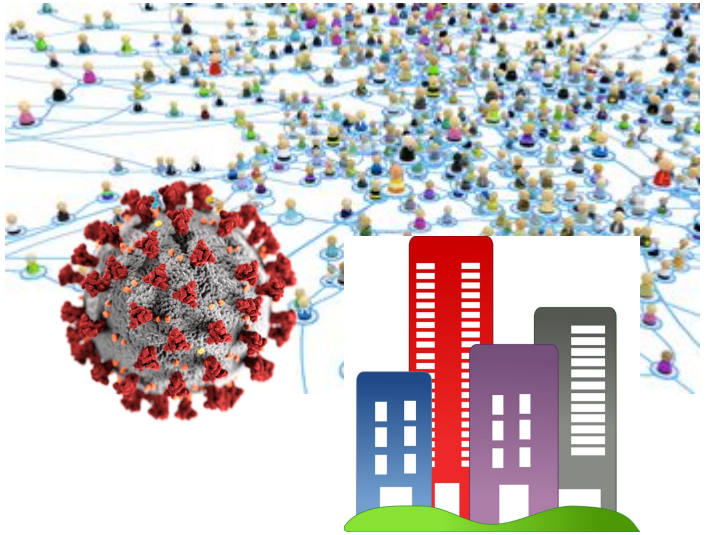
SPNHC
ADVANCING COLLECTIONS CARE

Museum of Southwestern Biology
Division of Mammals

COVID19 spurring action and change
ViralMuse Task Force

computer science, mammalogy, microbiology, virology, disease ecology, botany, biodiversity data informatics, data standards science, taxonomy, systematics, ...

- need long-term relationship for virology community and natural history museums
- pursue a multi-disciplinary conversation to build a fundamental bridge between natural history collections and public health
- focus on the need for explicit, verifiable host-species, host-pathogen relationships and evolution
- *BioScience* Viewpoint (in press). **Integrating Biodiversity Infrastructure Into Pathogen Discovery and Mitigation of Epidemic Infectious Diseases**...



COVID19 spurring action and change

CETAF-DiSSCo COVID19 Task Force

computer science, mammalogy, microbiology, virology, disease ecology, botany, biodiversity data informatics, data standards science, taxonomy, systematics, ...

- survey for research foci on animal virus carriers
- guidelines for preservation of viral evidence (for specimens and samples)
- a biodiversity-related knowledge COVID19 hub
- improve metadata registering practices on genetic material deposition

https://cetaf.org/covid19-taf-communities-taking-action

COVID19 spurring action and change

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Five Key Elements for Enhancing Future Resilience to Disease Outbreaks:

Collaborative development of guidelines for keeping **samples of both pathogens and hosts.**

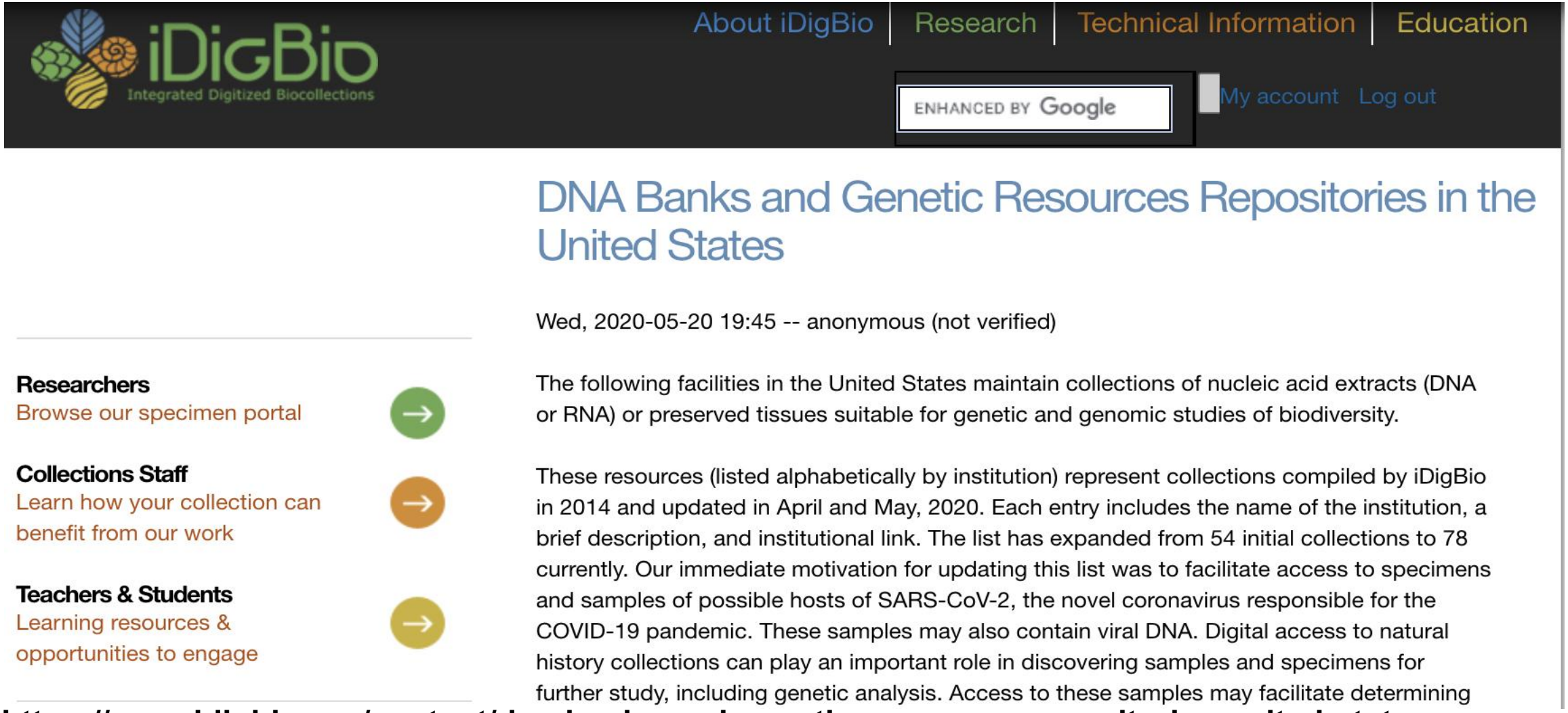
Collaborative development of **metadata requirements for physical specimens and samples**.

Expanded investment in **infrastructure, both cyber and physical**, to support archives of biological materials.

Increased communication and development of **new channels of dialogue and collaboration** among museum scientists, virologists, bioinformaticians, biomedical professionals, and disease ecologists.

Enhancement of **financial support and strong leadership from federal agencies, international partners, and private foundations** to **develop proactive, multi-disciplinary approaches to future pandemics**.

iDigBio Directory of Genetic Resources Repositories



https://www.idigbio.org/content/dna-banks-and-genetic-resources-repositories-united-states

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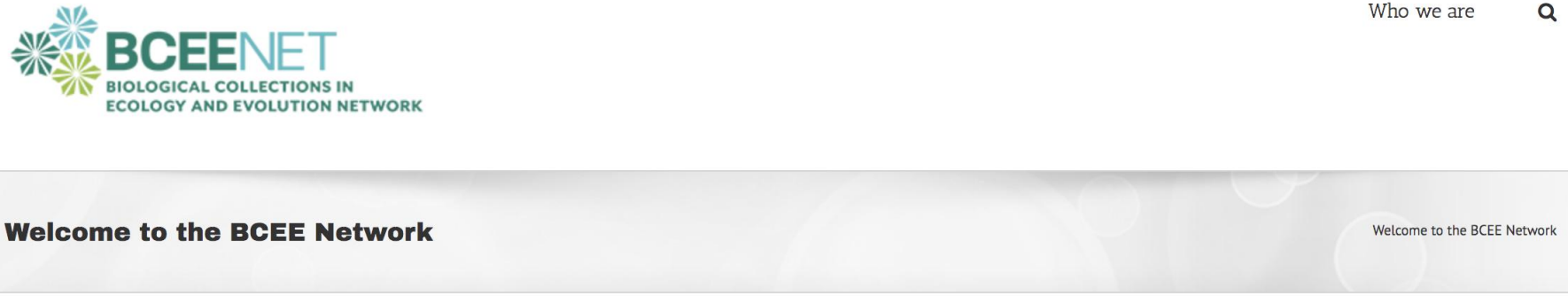
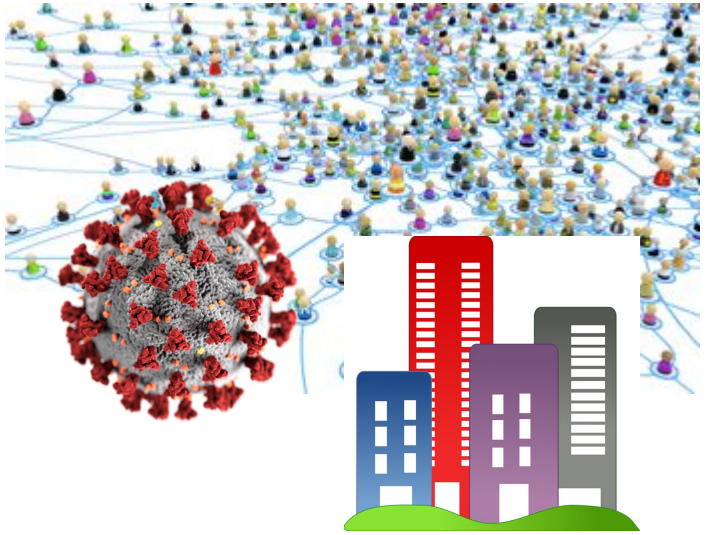

BCEENET
BIOLOGICAL COLLECTIONS IN
ECOLOGY AND EVOLUTION NETWORK
Who we are
Welcome to the BCEE Network
Welcome to the BCEE Network

Discussion



- Who are the folks in the room?
- What topics / ideas would you like to explore
- Please share your experiences / insights / concerns / ideas / questions
- https://bit.ly/covid19digidata4

Summary of our unconference conversation

This document will be read only after today
https://bit.ly/covid19digidata4

Send questions to Pam or Deb
(see linked document for emails)

Thank you so very much for your participation and engagement during what will likely continue to be one of the most challenging times of our entire lives.