

# Sharing, Discovering, and Citing Data in Times of Crisis

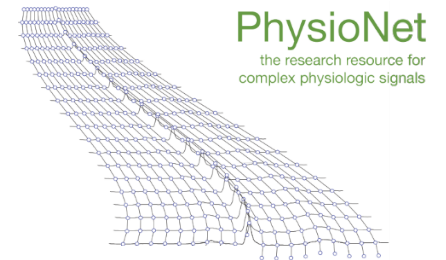
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Associate Director for Data Science  
Office of Data Science Strategy

*April 24, 2020*



# NIH Supports Many Repositories for Biomedical Data Sharing

NIH strongly encourages  
**Open-Access Data Sharing Repositories**  
as a first choice.



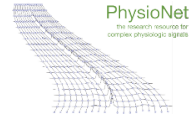
AphasiaBank





# NIH Data Repository Ecosystem

Domain-specific



Strength is often careful, detailed curation  
Findable, Accessible < **Interoperable, Reusable**



# NIH Data Repository Ecosystem

Strength is often robust Findability & Accessibility

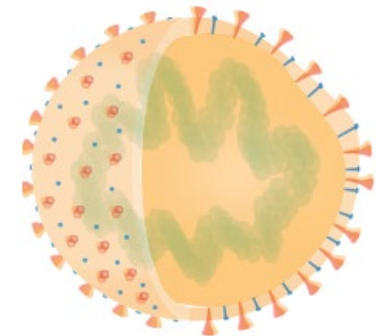
**Findable, Accessible** < Interoperable, Reusable

Generalist



# NIH Contributes Resources for Open-Access Data to Address COVID-19

- COVID-19 Open Research Dataset ([CORD-19](#)), a free resource of over 45,000 scholarly articles
  - Related: White House Office of Science and Technology [AI Challenge](#)
- [LitCovid](#) is a curated literature hub for tracking up-to-date scientific information about the 2019 novel Coronavirus
- [SARS-CoV-2 Sequences](#) provided by NCBI
- [iSearch](#): Literature on COVID-19 including PubMed and pre-prints from medRxiv, bioRxiv, and ChemRxiv





# NIH Contributes Resources for Open-Access Data to Address COVID-19

- The Broad [Terra cloud workspace](#) contains COVID-19 genomic data and workflows that will enable you to perform viral genomic analysis.
- NIGMS-funded [Modeling Infectious Disease Agents Study \(MIDAS\) online portal for COVID-19](#) modeling research. Public-access data collections with documented metadata.
- *(Coming Soon)* Platform(s) to integrate clinical, imaging, and patient data that are supported by NIH



# COVID-19: Additional Resources

- [Schema.org](#)
  - [Dimensions COVID-19 publications, datasets, and clinical trials](#)
  - [C3.ai Covid-19 data lake](#)
  - [GISAID](#)
  - [Nextstrain COVID-19 genetic epidemiology](#)
  - [Research Data Alliance Working Group](#)
  - [Virus Outbreak Data Network \(VODAN\)](#)
  - **\*New\*** [OSF Coronavirus Outbreak Research Collection](#)
  - **\*Coming Soon\*** Inter-university Consortium for Political and Social Research (ICPSR) COVID-19 Repository
- And more to come...*

<https://datascience.nih.gov/covid-19-open-access-resources>

# Today's Agenda

- Vivli



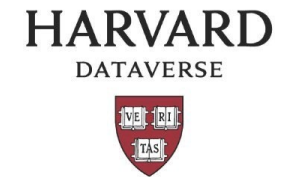
- Zenodo



- Figshare



- Harvard Dataverse



- GitHub



- Mendeley Data



- Dryad



- NLM

