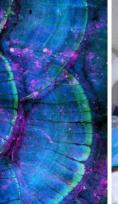
NIH Director's Report

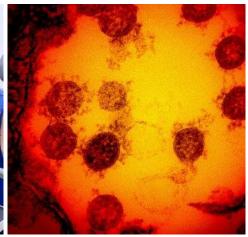
Council of Councils September 8, 2022















Lawrence A. Tabak, DDS, PhD
Performing the Duties of the Director of NIH
Department of Health and Human Services



Topics for Today

- NIH Leadership Changes
- NIH Budget Update
- COVID and Monkeypox Updates
- NIH Public Access Policy
- Initiative Updates: RECOVER, N3C, STRIVE



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Retirement: Director, Division of Program Coordination, Planning, and Strategic Initiatives



James M. Anderson, MD, PhD

Appointment: Acting Director, Division of Program Coordination, Planning, and Strategic Initiatives



Bob Eisinger, PhD

Retirement: Director, National Cancer Institute



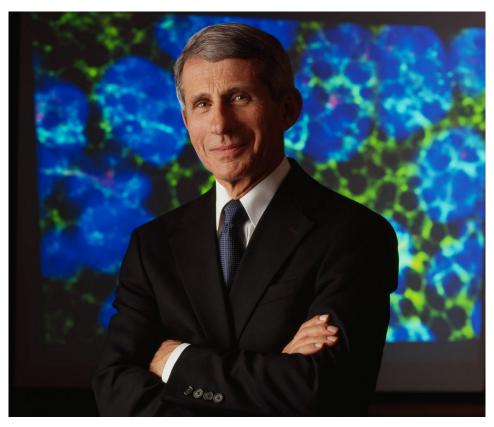
Norman E. "Ned" Sharpless, MD

Appointment: Director Designee, National Cancer Institute (NCI)



Monica Bertagnolli, MD

Retirement: Director, National Institute of Allergy and Infectious Diseases



Anthony S. Fauci, MD

Appointment: Acting Deputy Director for Intramural Research



Nina Schor, MD, PhD

Appointment: Director of the Office of Equity, Diversity, and Inclusion



Kevin Williams, JD

Appointment: Acting Deputy Director, Advanced Research Projects Agency for Health (ARPA-H)



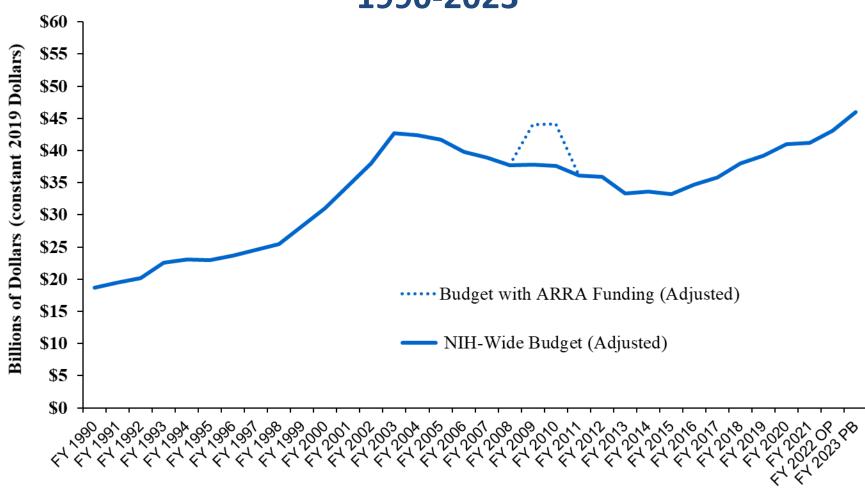
Adam Russell, DPhil

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National Institutes of Health Funding 1990-2023



Notes: Dollar values are adjusted to 2019 dollars using the Biomedical Research and Development Price Index (BRDPI), http://officeofbudget.od.nih.gov/gbiPriceIndexes.html. Includes \$1 billion for ARPA-H in FY 2022 and a \$5 billion request in the FY 2023 President's Budget. Does not include the President's Budget request of \$12.1 billion in mandatory resources to support pandemic preparedness. Sources: the NIH's Office of Extramural Research and the Office of Budget (March 2022).

FY 2022 NIH Appropriations

	FY 2021	FY 2022	Change from FY 2021 (\$)	Change from FY 2021 (%)
NIH Program Level	\$42.94B	\$45.18B	+\$2.24B	+5.2%

- \$2.24 billion increase, or 5.2 percent, over FY 2021
- General increase for Institutes/Centers of 3.4 percent
- Specific increases include:
 - ARPA-H (\$1 billion)
 - Alzheimer's disease (\$289 million)
 - Cancer research (\$150 million)
 - Opioids research (\$75 million)
 - BRAIN Initiative (\$60 million)
 - Health disparities (\$50 million)

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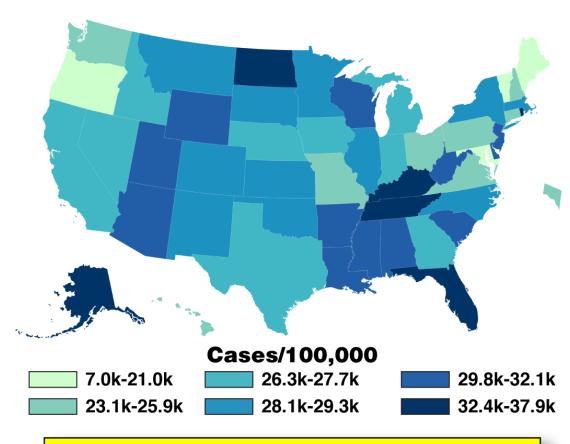
COVID-19 Pandemic

Globally



Reported cases: 593.3 million Reported deaths: 6,446,547

United States

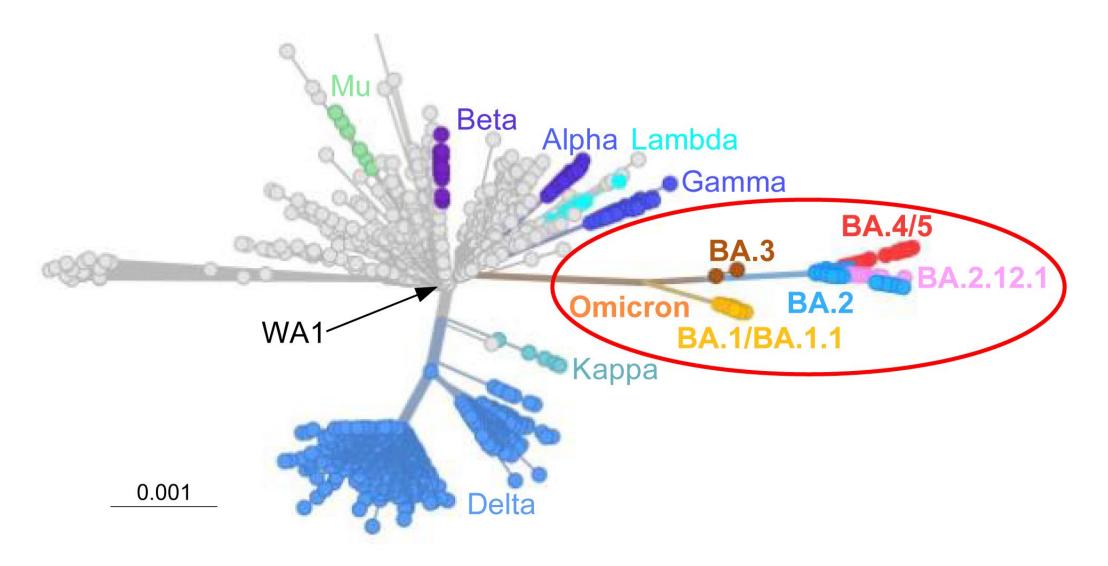


Reported cases: 93.2 million Reported deaths: 1,034,668

Sources: WHO; KFF. Data as of 8/22/2022.

Source: CDC. Data as of 8/22/2022.

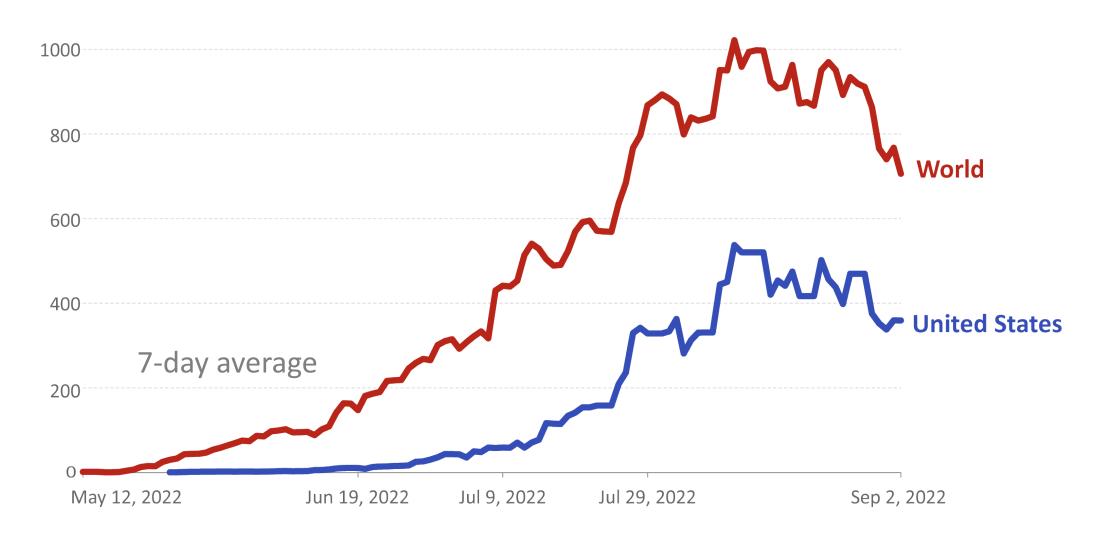
SARS-CoV-2 "Family Tree"



COVID-19 Vaccines in US Government Development

Platform	Immunogen		Developer	Status
Nucleic Acid (mRNA)	S2P	W. Marine	moderna	BLA (Age 18+); EUA (Age 6 mo-17)
	S2P		BIONTECH Pfizer	BLA (Age 16+); EUA (Age 6 mo-15)
Adenovirus Vector	S2P		Johnson-Johnson	■ EUA (Age 18+)
	Wild-type spike	School Light	AstraZeneca	EUA/BLA TBD
Recombinant Protein and Adjuvant	S2P		gsk SANOFI 🕠	EUA request 2/2022
	S2P		NOVAVAX Creating Tomorrow's Vaccines Today	■ EUA (Age 12+)

Monkeypox Daily Cases



Source: Our World in Data

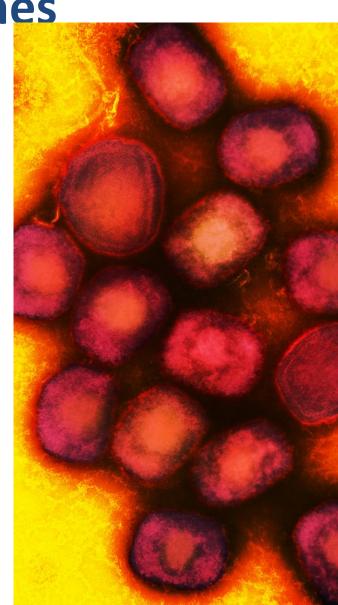
Planned NIAID Clinical Trials

Monkeypox Treatments & Vaccines

• Sept. 2022: U.S. clinical trial of tecovirimat (TPOXX)

• Sept. 2022: Clinical trial of tecovirimat (TPOXX) in the Democratic Republic of the Congo

 Fall 2022: Intradermal administration of a low-dose JYNNEOS monkeypox vaccine



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WHITE HOUSE OFFICE of Science and Technology Policy

Public Access to Federally Funded Research Results

2013 – Expanding Access

- Federal departments/agencies with >\$100M in R&D expenditures
- Develop and implement public access plans and policies
 - 12-month embargo for scholarly publications
 - Plans for maximizing access to scientific data

2022 – Increasing Equitable Access

- All Federal departments/agencies
- Develop new or update existing public access plans and policies
 - No embargo for scholarly publications
 - Scientific data made accessible at publication
 - Require digital Persistent Identifiers (PIDs) and metadata for research outputs

Next Steps

- Public access plans due to OSTP & OMB no later than 180 days (~February)
 - Agency public access policies: Developed by December 31, 2024;
 Implemented by December 31, 2025
 - PIDs Requirement/Metadata: Developed by December 31, 2026;
 Implemented date by December 31, 2027
- Immediate next steps for NIH Plan Development
 - Revisions to NIH Public Access Policy
 - NIH DMS Policy already underway after extensive consultation;
 to be implemented January 25, 2023
 - Will undertake outreach to stakeholders and interagency in development

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NIH Researching COVID to Enhance Recovery (RECOVER) Initiative

Goal: Rapidly improve our understanding of and ability to predict, treat, and prevent Post-Acute Sequelae of SARS-CoV-2 Infection (PASC)





RECOVER Key Scientific Aims

- Understand clinical spectrum and biology underlying COVID-19 recovery over time
- Define risk factors, incidence/prevalence, and distinct PASC subphenotypes
- Study pathogenesis over time and possible relation to other organ dysfunction and disorders
- Identify interventions to treat and prevent PASC



RECOVER Guiding Principles

- Patient-centered
- National scale, inclusive and diverse, patient participation
- Standardized procedures
- Adaptive



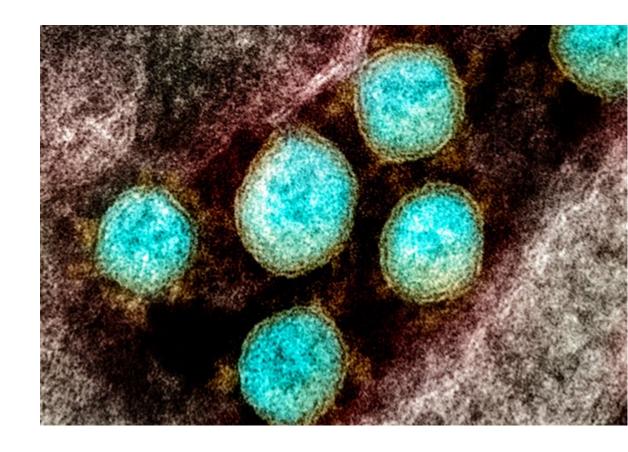


National COVID Cohort Collaborative (N3C)

Collaborators contribute and use electronic health record data (EHR) to

study clinical course of COVID-19

- Diverse, deidentified data from
 - 75 sites in 49 states
 - 15.2 million people
 - 6.0 million COVID cases
 - 1.6 billion clinical observations



Partners & Collaborators:

NCATS * NIGMS * CTSAs * IDeA-CTRs * NLM * ODSS * NIAID * NIBIB * NICHD * NHLBI * THRO * FDA * BARDA * CMS * ONC, CD2H, Palantir * Datavant * Acumen * SAMVIT * OCHIN * Regenstreif * MDClone * Microsoft *Sage Bionetworks

N3C Controlled Access Database Answering Urgent Public Health Questions

- Data are secure and cannot be removed
- Extensive learning, training, and community resources available
- >70 preprints or publications, >1000 Google citations
 - Defining PASC and risk factors for PASC
 - Effectiveness of monoclonal antibody treatment
 - Unpublished: Paxlovid rebound



STRIVE: Strategies and Treatments for Respiratory Infections and Viral Emergencies

- New component of the Accelerating COVID-19 Therapeutic
 Interventions and Vaccines (ACTIV) public-private partnership
- Purpose
 - Identify better treatments for severe respiratory infections
 - Maintain clinical trials infrastructure for pandemic preparedness
- Global footprint
- Scope
 - COVID-19 initial focus
 - Potential to study additional pathogens in the future



STRIVE: Potential Therapies to Investigate

- Antiviral agents
 - Small molecule antiviral drugs
 - Passive immunity agents
- Host response agents
 - Immunomodulators
 - Host pathways
- Strategies of combination therapy
- Repurposed drugs
- Novel drugs
- Supportive care approaches

Trial #1 - Protease Inhibitor

Anticipated Trial #2 -Strategy trial evaluating use of immunomodulatory agents











NIH...

Lawrence.Tabak@nih.gov @NIHDirector/Twitter

Turning Discovery Into Health



