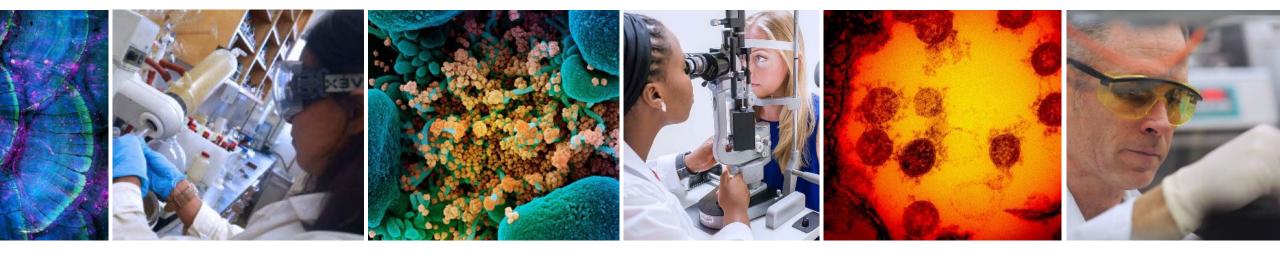
Director's Report

124th Advisory Committee to the Director Meeting June 9, 2022





Lawrence A. Tabak, DDS, PhD Acting Director, NIH

Department of Health and Human Services

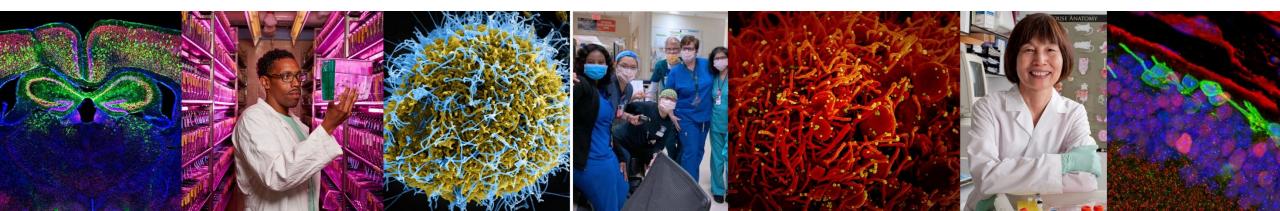


In Memoriam U.S. Rep. John Porter, June 3, 2022

JOHN EDWARD PORTER

Topics for Today

- Appointments and Departures
- Awards and Honorees
- Budget and Legislative Updates
- Initiative Updates
- Update on NIH Efforts to Redress (Sexual) Harassment
- Two Things that Keep Me Up at Night



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Advisory Committee to the (NIH) Director



Acting NIH Principal Deputy Director



Tara A. Schwetz, PhD

Acting Associate Deputy Director, NIH



Courtney Aklin, PhD

Acting Director of the Office of Science Policy



Lyric Jorgenson, PhD

Norman E. "Ned" Sharpless, MD Director, National Cancer Institute



Acting Director, National Cancer Institute (NCI)



Doug R. Lowy, MD

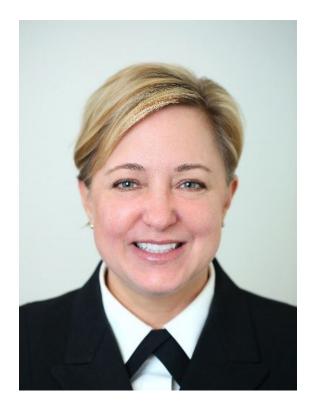
Acting Director,

National Center for Advancing Translational Sciences



Joni L. Rutter, PhD

Acting Associate Director for Behavioral and Social Sciences Research; Acting Director of Office of Behavioral and Social Sciences Research



Christine Hunter, PhD, ABPP

Acting Chief of Staff



John T. Burklow

Acting Associate Director for Communications and Public Liaison



Renate H. Myles

Acting Deputy Director of Advanced Research Projects Agency for Health (ARPA-H)



Adam Russell, DPhil





Julie Louise Gerberding, MD, MPH

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Service to America Medal Finalists





Diana W. Bianchi, M.D.

Director, NICHD COVID-19 Response Finalist

H. Clifford Lane, M.D.

Deputy Director for Clinical Research and Special Projects, NIAID **Career Achievement Finalist**



RESEARCHIAMERICA ADVOCACY AWARDS

JOHN EDWARD PORTER LEGACY AWARD, GENEROUSLY SUPPORTED BY ANN LURIE



Francis S. Collins, MD, PhD Acting Science Advisor to the President: Senior Investigator, Center for Precision Health Research, National Human Genome Research Institute, NIH

OUTSTANDING ACHIEVEMENT IN PUBLIC HEALTH AWARD



Vivian W. Pinn, MD Inaugural Director, Office of Research on Women's Health, NIH (Retired)

RAPID TRANSLATION AWARD

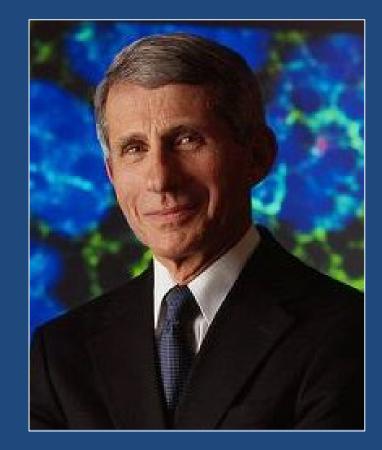
Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIVE)



Elliot L. Richardson Prize for Excellence in Public Service



Francis Collins, MD, PhD



Anthony Fauci, MD

Topics for Today

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House Appropriations Committee Hearing



Senate Appropriation Committee Hearing



Budget Update

NIH Director's Report to the Advisory Committee to the Director June 9, 2022

Neil K. Shapiro Associate Director for Budget, NIH



FY 2022 Appropriations Action

- The consolidated appropriations bill, including Labor/HHS/Education, became law on March 15th after four continuing resolutions spanning nearly half the fiscal year.
- It provided NIH with the full-year discretionary appropriation, as well as creating the new Advanced Research Projects Agency for Health (ARPA-H).
- The Type 1 Diabetes mandatory funding was reauthorized last year, but it was reduced by \$8.55 million (to \$141.45 million) due to sequestration.

FY 2022 at a Glance

| (\$ in thousands) | FY 2021 | FY 2022 | Change from FY 2021 (\$) | Change from FY 2021 (%) |
|-------------------|--------------|--------------|-----------------------------|----------------------------|
| NIH Program Level | \$42,812,323 | \$42,812,323 | +\$3,365,667 | +7.9% |
| ARPA-H (non-add) | | \$1,000,000 | +\$1,000,000 | |

- \$3.4 billion increase over FY 2021 final budget.
- \$1 billion for ARPA-H, which was transferred to NIH by the Department in April. The funds are available for obligation over three years.
- General increase for Institutes and Centers of 3.4 percent.

Highlights of Omnibus: Largest Targeted Increases

| Alzheimer's Disease | \$289 M | |
|------------------------------------------------|---------|--|
| NCI success rate | 150 | |
| HEAL Initiative | 75 | |
| BRAIN Initiative | 60 | |
| • COVID-19 | 53 | |
| NIMHD Health Disparities | 50 | |
| Buildings & Facilities | 50 | |
| • All of Us Research Program | 41 | |
| Cybersecurity | 40 | |
| | | |

FY 2023 President's Budget

| (\$ in thousands) | FY 2022 | FY 2023 PB | Change from FY 2022 (\$) | Change from FY 2022 (%) |
|--------------------------|--------------|--------------|-----------------------------|----------------------------|
| NIH Program Level | \$46,177,990 | \$62,502,703 | +\$16,324,703 | +35% |
| ARPA-H (non-add) | \$1,000,000 | \$5,000,000 | +\$4,000,000 | +400% |
| Pandemic Prep. (non-add) | | \$12,050,000 | +\$12,050,000 | |

- Released March 28th using the continuing resolution level for FY 2022 as the current-year baseline, rather than the omnibus that had just been enacted. Typically, it takes two months or more to develop the Budget.
- Some PB levels are close to or below the FY 2022 enacted level due to the size of the unanticipated congressional increase, not the Administration's intent.

FY 2023 President's Budget (cont.)

- Intended general increase of 2 percent for Institutes and Centers (over continuing resolution).
- Largest targeted increases
 - Opioids/Pain Research (inc. HEAL) \$552M -Health Disparities 350 _ Climate Change 100 _ Nutrition Science 96 _ - Cybersecurity 60 **Buildings & Facilities** 50 -

Pandemic Preparedness Proposal

- Preclinical R&D of prototype vaccines/therapeutics against high profile viral families (\$4.0 billion)
- Expansion of laboratory capacity and pilot cGMP manufacturing (\$2.35 billion)
- Development and clinical evaluation of vaccines and therapeutics (\$2.0 billion)
- Establish, expand, and/or improve large and flexible clinical trials networks and infrastructure (\$1.7 billion)
- Biosafety and biosecurity (\$1.0 billion)
- Develop affordable, accessible, and novel diagnostics and innovations in early warning (\$1.0 billion)

Legislative Update

ADRIENNE HALLETT ASSOCIATE DIRECTOR FOR LEGISLATIVE POLICY & ANALYSIS JUNE 9, 2022

FY 2023 Appropriations Hearings

- ► Themes Discussed:
 - ► ARPA-H
 - Success Rates
 - Undiagnosed Diseases Network
 - ► COVID-19
 - RECOVER (Long COVID)
 - Mental Health
 - ► Alzheimer's Disease
 - School Closures during the pandemic



Congressional Areas of Interest

Events held by OLPA

| 2020 | 2021 | 2022 |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topics COVID Grants RADx | Topics COVID ARPA-H Diversity CTSAs Maternal Health & COVID RADx Opioids & COVID | Topics COVID Mental Health Alzheimer's Disease ALS Long COVID Diversity Women's Health ARPA-H |
| Over 50 events | Over 300 events | 100 events so far |

Sexual Harassment Policy

NIH will require notification by the NIH-funded institution within 30 days of removal or disciplinary action.

▶ Effective July 8, 2022.

SEC. 239. The Director of the National Institutes of Health shall hereafter require institutions that receive funds through a grant or cooperative agreement during fiscal year 2022 and in future years to notify the Director when individuals identified as a principal investigator or as key personnel in an NIH notice of award are removed from their position or are otherwise disciplined due to concerns about harassment, bullying, retaliation, or hostile working conditions. The Director may issue regulations consistent with this section.

ACT for ALS

Implementation for the Accelerating Access to Critical Therapies for ALS Act (ACT for ALS)

- FOA posted May 12, 2022 to support research utilizing data from expanded access to investigational drugs and biological products for those otherwise not eligible for ALS clinical trials
- Grants available to phase 3 clinical trials sponsored by small businesses



Bayh-Dole Act

Background

- Facilitate US technological innovation by establishing a uniform set of federal rules
- Enable universities/nonprofit research institutions/small business to own/patent/commercialize inventions supported, in part, by federal funds

Two Areas of Congressional Interest

- Use of march-in for drug pricing
- Concerns about royalties paid to scientists for federally funded inventions.



Future Forecast: Must Pass Provisions

- FDA User Fee Agreements for medical products
 - Expires September 30, 2022
- Small Business Innovation Research Program and Small Business Technology Transfer (SBIR/STTR)
 - Sunsets September 30, 2022
- Appropriations
- Annual Defense Authorization
- ACA premium increase?

Future Forecast: *May* Pass Provisions

- ARPA-H Authorization
- Health Omnibus
- Pandemic Preparedness
- Cures 2.0
- ► U.S. Competes Act

1 SEC. 30227. PROHIBITION ON FEDERAL FUNDING FOR CER-

2 TAIN GAIN-OF-FUNCTION RESEARCH BY A 3 FOREIGN ADVERSARY.

4 (a) IN GENERAL.—No Federal funds may be made 5 available, whether directly or indirectly, or used by an en-6 tity, to conduct or support any gain-of-function research 7 involving a potential pandemic pathogen by a foreign ad-8 versary, including—

9 (1) China, Russia, Iran, and North Korea; and 10 (2) any other country the Secretary of State, in 11 consultation with the Secretary of Defense, the Di-12 rector of National Intelligence, or any other appro-13 priate Federal official, determines to be a foreign 14 adversary for the purposes of this section. (b) FUNDING FREEZE FOR VIOLATIONS.—Any entity 15 16 the Secretary of State finds to have used Federal funds 17 in violation of this section may not receive any Federal

18 funding for a period of 5 years, beginning on the date of

1 (e) PROHIBITION.—

19 such finding.

- 2 (1) IN GENERAL.—No Federal funds authorized
- 3 or made available pursuant to this Act may be used
- 4 or expended to laboratories in China or other coun-
- 5 tries identified by the United States government as
- 6 foreign adversaries to conduct gain of function re-
- 7 search.

1 SEC. 30227. PROHIBITION ON PROGRAMMING THAT ENDAN-

GERS NATIONAL SECURITY.

2

3 (a) WUHAN INSTITUTE OF VIROLOGY.—Notwith4 standing any other provision of law, funds authorized or
5 appropriated by any Act may not be made available for
6 any purpose to the Wuhan Institute of Virology.

7 (b) TECHNOLOGY TRANSFER.—Notwithstanding any
8 other provision of law, funds authorized or appropriated
9 by any Act may not be available for any purpose to con10 duct technical exchanges with entities under the direction
11 or control of the Chinese Communist Party or the Govern12 ment of the People's Republic of China.

1 SEC. 30326. PROHIBITION ON AVAILABILITY OF FUNDS.

2 None of the funds authorized to be appropriated by
3 this Act may be made available to any individual or entity
4 that is related legally or financially to the People's Repub5 lic of China.

Amendments to Watch

Congressional Confirmations



| 5 | | | | | | July | | | | | | |
|--------------------------------|-------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mon. | Tues. | Wed. | Thurs. | | | Sun. | Mon. | Tues. | Wed. | Thurs. | Fri. | Sat. |
| | | 1 | 2 | 3 | 4 | | | | 19-11-1 - | | 1 | 2 |
| 6 | 7 | 8 | 9 | 10 | 11 | 3 | 4 Independence Day | 5 | 6 | 7 | 8 | 9 Eid al-Adha (begins) |
| 13 | 14 | 15 | 16 | 17 | 18 | 10 Eid al-Adha (ends) | 11 | 12 | 13 | 14 | 15 | 16 |
| 20 Juneteenth (observed) | 21 | 22 | 23 | 24 | 25 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 27 | 28 | 29 | 30 | | | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | 6 13 Juneteenth (observed) | Mon. Tues. 6 7 13 14 20 Juneteenth 21 (doserved) | Mon. Tues. Wed. 1 1 6 7 8 13 14 15 20 21. 22 Juneteenth 21. 22 | Mon. Tues. Wed. Thurs. 1 2 6 7 8 9 13 14 15 16 Juneteenth (observed) 21 22 23 | Mon. Tues. Wed. Thurs. Fri. 1 2 3 6 7 8 9 10 13 14 15 16 17 20 Janeteenth (observed) 21 22 23 24 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 6 7 8 9 10 11 13 14 15 16 17 18 20 21 22 23 24 25 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 6 7 8 9 10 11 13 14 15 16 17 18 20 21 22 23 24 25 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 6 7 8 9 10 11 13 14 15 16 17 18 20 21 22 23 24 25 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 Sun. Mon. Tues. 6 7 8 9 10 11 Sun. Mon. Tues. 13 14 15 16 17 18 10 Eid al-Adha (ends) 11 12 20 21 22 23 24 25 17 18 19 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 Sun. Mon. Tues. Wed. 6 7 8 9 10 11 Sun. Mon. Tues. Wed. 13 14 15 16 17 18 10 Eid al-Adha (ends) 11 12 13 20 21 22 23 24 25 17 18 19 20 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 Sun. Mon. Tues. Wed. Thurs. 6 7 8 9 10 11 Sun. Mon. Tues. Wed. Thurs. 13 14 15 16 17 18 10 Ed. 11 12 13 14 20 21 22 23 24 25 17 18 19 20 21 | Mon. Tues. Wed. Thurs. Fri. Sat. 1 2 3 4 6 7 8 9 10 11 13 14 15 16 17 18 20 21 22 23 24 25 |

September August Sun. Mon. Tues. Wed. Thurs. Fri. Sun. Mon. Tues. Wed. Thurs. Fri. Sat. Sat. Labor Day 23 24 (begins)

October

| Sun. | Mon. | Tues. | Wed. | Thurs. | Fri. | Sat. | Sun. | Mon. | Tues. | Wed. | Thurs. | Fri. | Sat |
|------|-----------------------|-----------------------------|---------------------------|--------|------|------|------|------|----------------------|------|---------------------------|-----------------------|-----|
| | | | | | | 1 | | | 1 | 2 | 3 | 4 | 5 |
| 2 | 3 | 4 Yom Kippur (begins) | 5 Yom Kippur (ends) | 6 | 7 | 8 | 6 | 7 | 8 Election Day | 9 | 10 | 11 Veterans Day | 12 |
| 9 | 10 Columbus Day | 11 | 12 | 13 | 14 | 15 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 20 | 21 | 22 | 23 | 24 Thanksgiving Day | 25 | 26 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 | 27 | 28 | 29 | 30 | | | - |
| 30 | 31 | | | | | | | | | | | | |

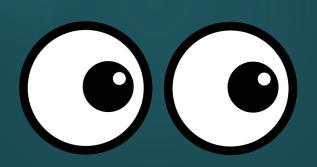
House committee work only / Senate in session



OSTP Director

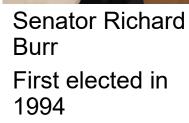
Retirement Watch

- Who will retire in 2022?
- Leadership changes
- So far...
 - 33 Democrats
 - 23 Republicans





Senator Patrick Leahy First elected in 1974





Senator Roy Blunt First elected in 1997

Election Watch 2022

- ► The President's party historically loses seats in the midterms.
- Voter turnout higher than average in 2018, what will happen in 2022?
- ▶ In 2021, there was record high campaign spending for an off-cycle year.
- ► The Democratic majority in both Chambers is unusually narrow:
 - House (+10 Seats)
 - Senate (Even split)

House Election Watch

- Redistricting has changed the map.
- NRCC targeting 72
 Democrats in the House.
- DCCC announced 40 "Districts in play".

The disappearance of competitive districts will continue in 2022

Number of House seats for each party since 1996, according to FiveThirtyEight's partisan lean

SOLID D COMPETITIVE D HIGHLY COMPETITIVE COMPETITIVE R SOLID R

| 1996 | 89 | 56 | | 98 | | | 92 | | 100 | |
|--------------------|-----|----|----|-----|----|------|-------|-----|-----|--|
| 1998 | 96 | 46 | | 102 | | | 94 | | 97 | |
| 2000 | 97 | 46 | | 102 | | | 91 | | 99 | |
| 2002 | 119 | | 48 | | 52 | 81 | | 135 | | |
| 2004 | 118 | | 47 | | 57 | 73 | | 140 | | |
| 2006 | 120 | | 44 | | 50 | 85 | | 138 | | |
| 2008 | 122 | | 42 | | 50 | 79 | | 142 | | |
| 2010 | 127 | | 41 | | 51 | 73 | | 143 | | |
| 2012 | 126 | | 42 | 5 | 43 | 70 | 15 | 4 | | |
| 2014 | 135 | | 3 | 39 | 36 | 62 | 163 | | | |
| 2016 | 134 | | 4 | 41 | 40 | 62 | 158 | | | |
| 2018 | 137 | | | 39 | 41 | 50 | 168 | 168 | | |
| 2020 | 140 | | | 39 | 40 | 48 | 168 | | | |
| 2022 Projection | 143 | | | 48 | | 41 3 | 3 170 | | | |

Senate Election Watch

Senators up for election in 2022 D Democrat R Republican Democrat Republican open seat open seat AK ME NH VT WA ID ΜТ ND MN IL WI MI NY RI MA OR SD OH PA СТ NV WY IA IN NJ UT CO NE MO KY wv VA MD CA DE ΑZ NM KS AR TN NC SC AL OK LA MS GA HI ΤХ FL

Democrats (14) Alex Padilla (CA) Michael Bennet (CO) Richard Blumenthal (CT) Brian Schatz (HI) Tammy Duckworth (IL) Chris Van Hollen (MD) Catherine Cortez Masto (NV) Maggie Hassan (NH) Chuck Schumer (NY) Ron Wyden (OR) Patty Murray (WA) Mark Kelly (AZ) Raphael Warnock (GA) OPEN (Leahy) (VT): Solid D

Republicans (20)

Lisa Murkowski (AK) John Boozman (AR) Marco Rubio (FL) Mike Crapo (ID) Todd Young (IN) Chuck Grassley (IA) Jerry Moran (KS) Rand Paul (KY) John Kennedy (LA) John Hoeven (ND) James Lankford (OK) Tim Scott (SC) John Thune (SD) Mike Lee (UT) Ron Johnson (WI) OPEN (Shelby) (AL): Solid R OPEN (Blunt) (MO) Solid R OPEN (Burr) (NC): Toss Up OPEN (Portman) (OH): Lean R OPEN (Toomey) (PA). Toss Up OPEN (InHofe) (OK): Solid R

Thank you

Topics for Today

- Appointments and Departures
- Awards and Honorees
- Budget and Legislative Updates
- Initiative Updates
- Update on NIH Efforts to Redress (Sexual) Harassment
- Two Things that Keep Me Up at Night



President Biden Reignites the Cancer Moonshot





INITIATIVES 2017–2022



President Biden Reignites the Cancer Moonshot



Ambitious Goals Include:

- Reduce the death rate from cancer by at least 50 percent over the next 25 years
- Improve the experience of people and their families living with and surviving cancer— and, by doing this and more
- End cancer as we know it today

Rx and Illicit Drug Summit



HEAL Advances

- Discovery and validation of novel targets for safe & effective pain management
 - 2 patents for small-molecule modulators of pain receptors to treat chronic pain, migraine
 - Investigational New Drug, a first-in-class, non-additive drug candidate for treating chronic pain
- Novel therapies for opioid use disorder and overdose
 - 50+ compounds being developed, 23 INDs filed with FDA, study of opioid vaccine
- Devices targeting nerve signaling to treat pain and opioid use disorder

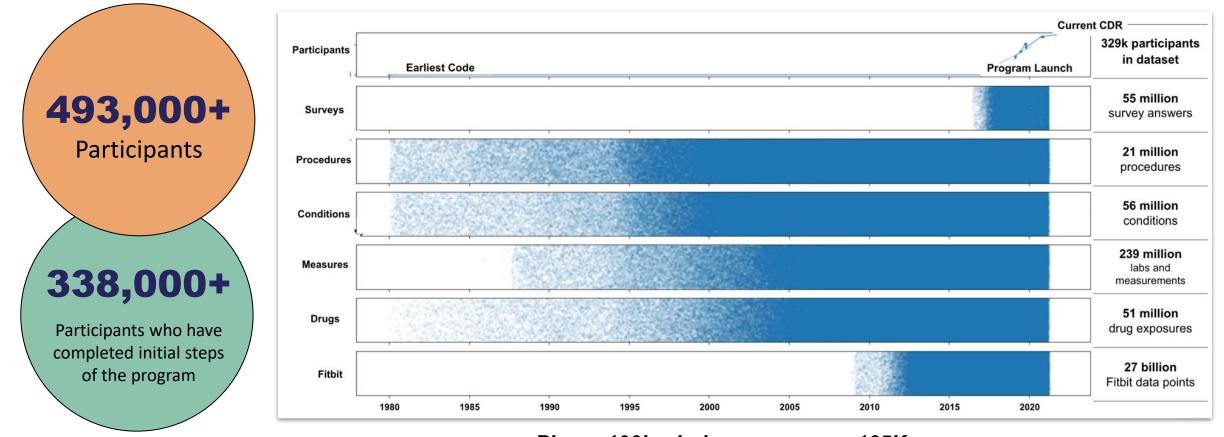
VPOTUS Maternal Health Action Plan Cabinet Meeting



Maternal Health Action by NIH

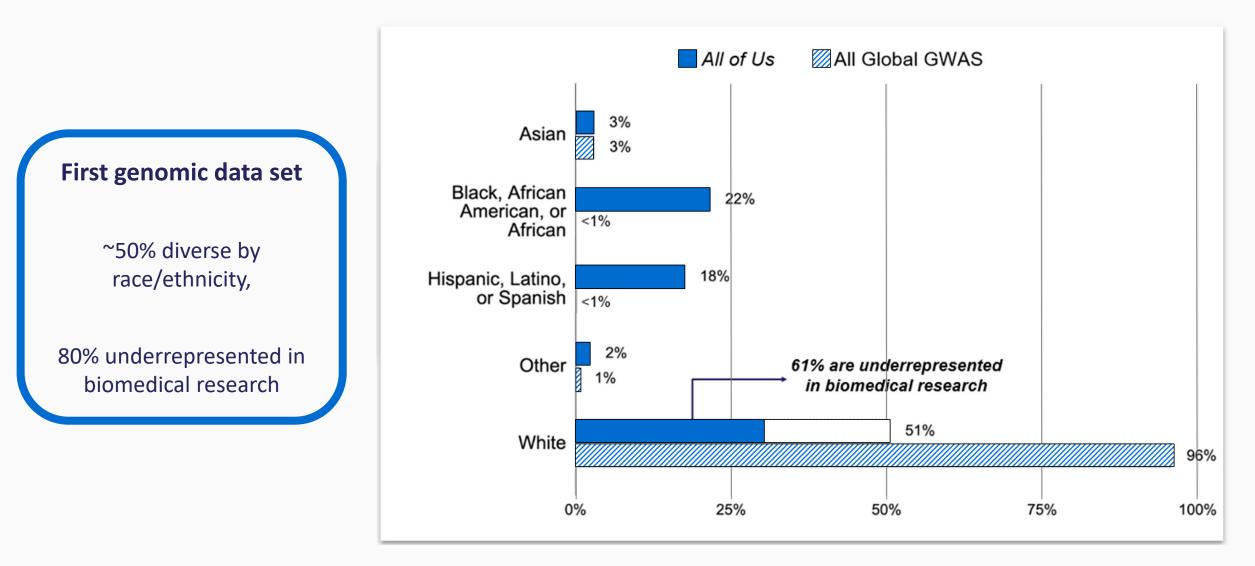
- NIH is committed to understanding and reducing maternal morbidity and mortality and disparities in maternal health
- In FY2021, NIH budget directed >\$422 million to maternal health research with >\$240 million specifically addressing maternal morbidity and mortality
- Increasing research by early-career and underrepresented researchers
- NIH-wide IMPROVE initiative—Implementing a Maternal health and PRegnancy Outcomes Vision for Everyone
- NICHD supported studies leading to the first medicine, Orlissa, approved by the FDA to treat pain associated with endometriosis

Available data in the All of Us Research Program (as of May 16, 2022)



Plus: ~100k whole genomes + ~165K arrays

All of Us' Inclusion of Underrepresented Groups will Enhance Diversity of Genomic Studies

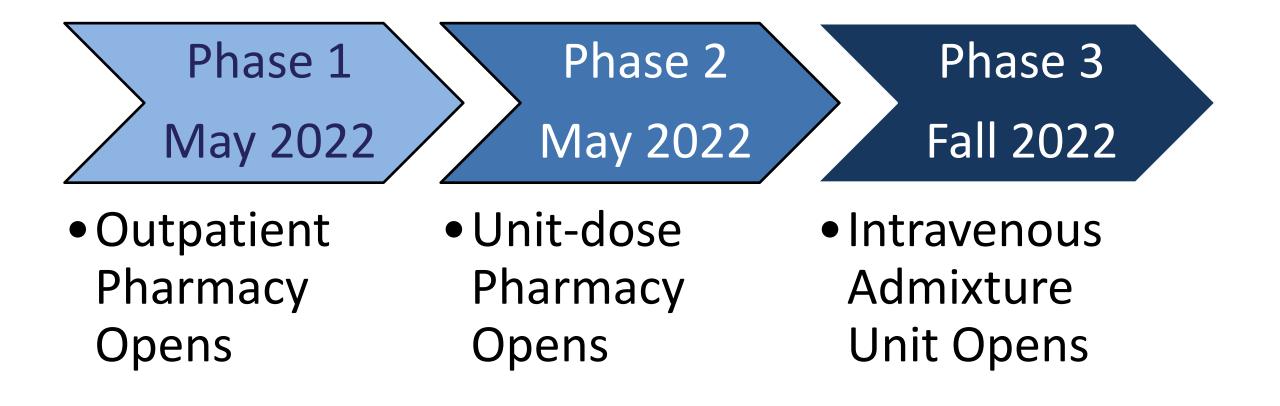


All Global GWAS values from <u>www.gwasdiversitymonitor.com</u>. Values current as of February 17, 2022

New Clinical Center Pharmacy Ribbon Cutting



New Clinical Center Pharmacy



John Lewis National Institute of Minority Health Disparities (NIMHD) Research Endowment Revitalization Act of 2021



John Lewis National Institute of Minority Health Disparities (NIMHD) Research Endowment Revitalization Act of 2021

- The NIMHD Research Endowment Program (REP) aims to help institutions:
 - Build research infrastructure
 - Recruit, train, maintain a diverse student body and faculty
- Provides funding to the endowments of academic institutions (up to 5 years)—does not directly fund research projects
- Endowment funds must be invested and maintained for at least 20 years after the award period ends
- New law expands eligibility to include former NIMHD and HRSA Centers of Excellence

Research Focus of the NIH-BMGF Collaboration

HIV

- Sustained remission strategies
- Vaccinal effect
- Home assays detecting viral load
- HIV Reservoir

Shared Gene-based Strategies

- Vector tropism and efficiency
 - Gene targeting
 - In vivo delivery

SCD

- Epidemiology
- Point of care diagnostics
- Pilot infant screening
- Guideline-based care for infants with SCD

NIH-BMGF Collaboration

Project outcomes

Phenotype data (associated with genotype data)

- Demographic information
- Anthropometric data
- Disease and health related phenotype data

Genomic data, human and pathogen

- Sequence data (whole genome, exome, targeted)
- Genotyping chip array data
 - ->60,000 samples run on H3Africa chip
- Epigenetic data
- Transcriptomic data

Microbiome sequence data

- Patient/sample phenotypes
- Non-human 16S rRNA sequence data for microbiome
- Non-human full genome sequence data for microbiome

Qualitative data

- Focus groups and surveys
- Deliberative workshops



New discoveries: novel genetic associations, risk factors, analysis methods, and research and training modalities (>650 publications and counting)



Resources

Policies and guidelines:

- H3Africa Guidelines for Community Engagement
- H3Africa Guidelines for Informed Consent
- Framework for African Genomics and Biobanking
- H3Africa Data Sharing, Access & Release Policy
- H3Africa Data and Biospecimen Access Committee Guidelines
- Recommendations for Feedback of Findings

Regional Biorepositories:

- Located in Nigeria, Uganda, and South Africa
- ISBR compliant
- Support for collection, processing, storage, retrieval, and shipping
- LIMS and catalog of samples
- Regional distribution, training & support
- Effective, affordable, & reliable regional courier shipping routes

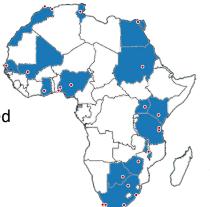


Research tools and products:

- Phenotype harmonization
- Cardiovascular disease harmonized data
- Training modules and trained personnel
- Population genetics studies
- ADME study
- H3Africa genotyping array

Bioinformatics Network:

- 135TB genomic data stored
- 1.2 PB available for storage
- 80TB genomic data transferred
- 3432 cores for processing
- 18 computing facilities
- 4 containerized workflows



www.h3abionet.org



Topics for Today

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Congress Strengthens NIH's Ability to Address Harassment

H.R.2471 – Consolidated Appropriations Act, 2022

Section 239: "The Director of the [NIH] shall hereafter require institutions that receive funds through a grant or cooperative agreement during fiscal year 2022 and in future years to notify the Director when individuals identified as a principal investigator or as key personnel in an NIH notice of award are removed from their position or are otherwise disciplined due to concerns about harassment, bullying, retaliation, or hostile working conditions. The Director may issue regulations consistent with this section."

Characteristics of harassment cases reported to NIH Office of Extramural Research

| Characteristic | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------------------|-----------|------------|------------|------------|-----------|
| Total N (%) | 33 (6.9) | 110 (23.0) | 108 (22.6) | 160 (33.5) | 67 (14.0) |
| Allegation: Sexual Harassment Only | 16 (48.5) | 57 (51.8) | 36 (33.3) | 56 (35.0) | 10 (14.9) |
| Allegation: Sexual Harassment Plus | | | | | |
| Other | 12 (36.4) | 30 (27.3) | 19 (17.6) | 28 (17.5) | 2 (3.0) |

Findings and Outcomes of Harassment Cases Reported to NIH Office of Extramural Research (2018- May 2022)

| Finding/Outcome | Sexual Harassment Only | Sexual Harassment Plus Other | | |
|--------------------------------|------------------------|------------------------------|--|--|
| Total N (%) | 175 (36.6) | 91 (19.0) | | |
| Contact with Institution | 131 (74.9) | 67 (73.6) | | |
| Formal Investigation | 114 (65.1) | 58 (63.7) | | |
| Allegation Substantiated | 61 (34.9) | 23 (25.3) | | |
| Principal Investigator Removed | 52 (29.7) | 14 (15.4) | | |
| Other Grant Actions | 16 (9.1) | 13 (14.3) | | |
| Left Institution | 54 (30.9) | 22 (24.2) | | |
| Removed from Peer Review | 90 (51.4) | 36 (39.6) | | |

Topics for Today

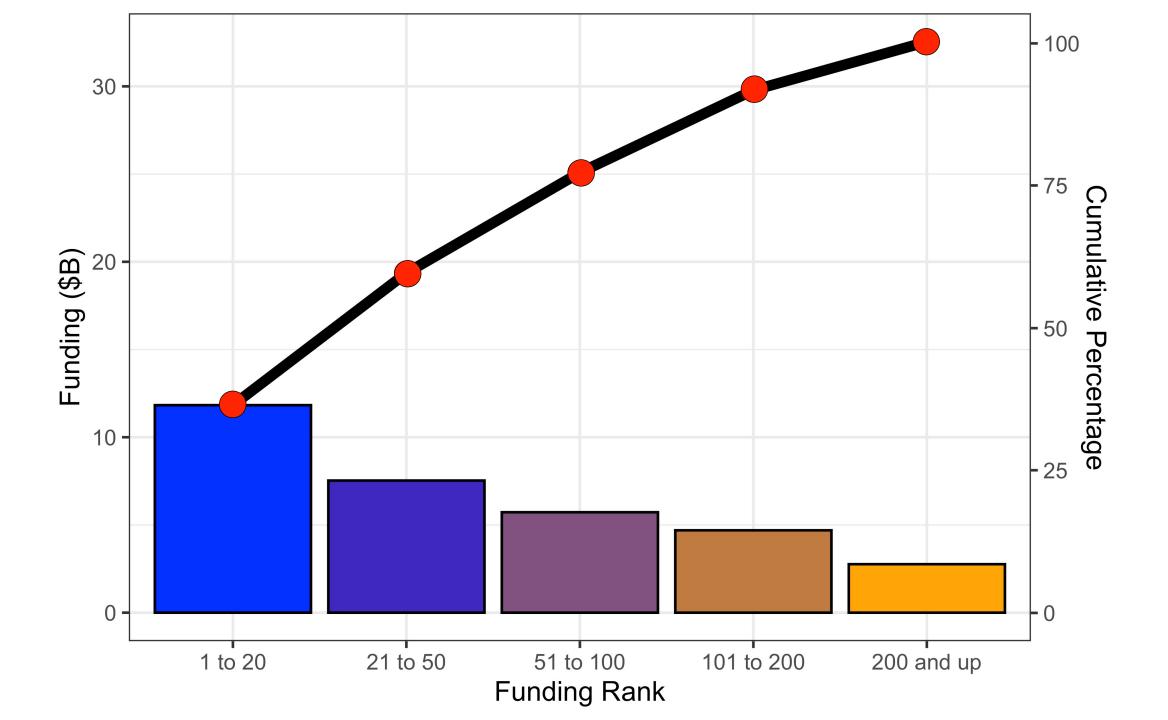
- Appointments and Departures
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Funding by Ranks FY2021, Domestic Non-Profits

| Ranking | Funding (\$Billion) | Percent Total Funding | Cumulative Percent |
|------------|---------------------|-----------------------|---------------------------|
| 1 to 20 | 11.83 | 36.36 | 36.36 |
| 21 to 50 | 7.53 | 23.14 | 59.5 |
| 51 to 100 | 5.73 | 17.61 | 77.11 |
| 101 to 200 | 4.69 | 14.41 | 91.52 |
| 200 and up | 2.76 | 8.48 | 100 |

Data from RePORT, <u>Awards by Location</u> Non-profits only (N=1026) Total FY2021 funding = \$32.54 Billion



(Lack of) Trust in Science



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Humans learn about the world by collectively acquiring information, filtering it, and sharing what we know. Misinformation undermines this process. The repercussions are extensive. Without reliable and accurate sources of information, we cannot hope to halt climate change, make reasoned democratic decisions, or control a global pandemic. Most analyses of misinformation focus on popular and social media, but the scientific enterprise faces a parallel set of problems—from hype and hyperbole to publication bias and citation misdirection, predatory publishing, and filter bubbles. In this perspective, we highlight these parallels and discuss future research directions and interventions. Check fo updates











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