

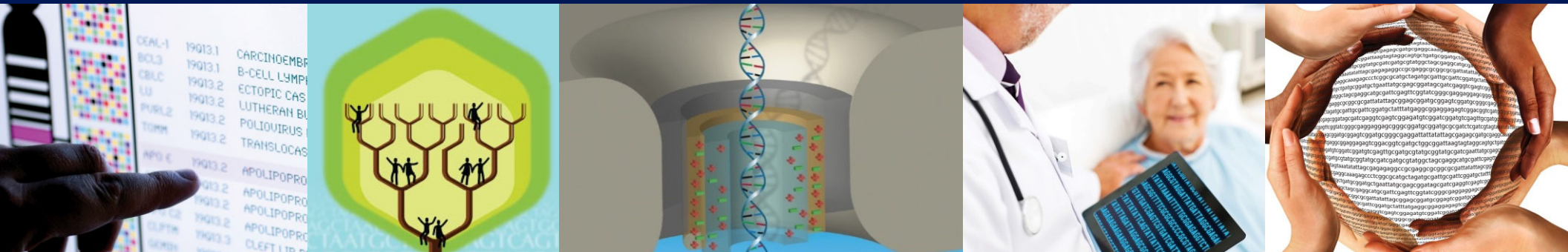


The **Forefront**  
of **Genomics**

# DIRECTOR'S REPORT

**Eric Green, M.D., Ph.D.**  
Director, NHGRI

**February 2023**



## Director's Report-Related Documents

February 2023



No.	Relevant Documents
1	<a href="#">Retirement of Extramural Program Directors</a>
2	<a href="#">Departure of Director, National Institute on Allergy and Infectious Diseases</a> <a href="#">Statement by Anthony S. Fauci, M.D.</a> <a href="#">Fauci Bids NIH Farewell After Half Century of Service</a>
3	<a href="#">Departure of Director, Fogarty International Center</a>

[genome.gov/DirectorsReport](https://genome.gov/DirectorsReport)

  
Document #

# Open Session Agenda

## Presentations:

**Building a Diverse Genomics Workforce Action Agenda:  
Implementation Plan and Progress Report**

**Vence Bonham**

**Outstanding Awards for Diversity, Equity, Inclusion, and  
Accessibility (DEIA) in the Genomics Workforce**

**Lorjetta Schools**

# Open Session Agenda

## Concept Clearances:

**ELSI Program Announcements for R01, R03, and R21 Applications**

**Dave Kaufman**

**Center for ELSI Resources and Analysis**

**Nicole Lockhart**

**Diversity Action Plan**

**Lucia Hindorff**

**Advancing Genomic Medicine Research**

**Christine Chang**

**Human Genome Reference Program**

**Adam Felsenfeld**



# Open Session Agenda

## Reports:

**Genomic Medicine Working Group of Council: Update of Meetings, Activities, and Accomplishments**

**Teri Manolio**

**Genomic Data Science Working Group of Council Update**

**Mark Craven**

**Community Engagement in Genomics Working Group of Council Update**

**Maya Sabatello & Greta Goto**

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- I. General NHGRI Updates
- II. General NIH Updates
- III. General Genomics Updates
- IV. NHGRI Extramural Research Program
- V. NIH Common Fund/Trans-NIH
- VI. NHGRI Communications, Policy, and Education
- VII. NHGRI Intramural Research Program

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# Retirement of Extramural Program Directors



**Joy Boyer**



**Elise Feingold, Ph.D.**



**Mike Smith, Ph.D.**

# Departure of Extramural Program Director



**Ken Wiley, Ph.D.**

# New Extramural Program Director

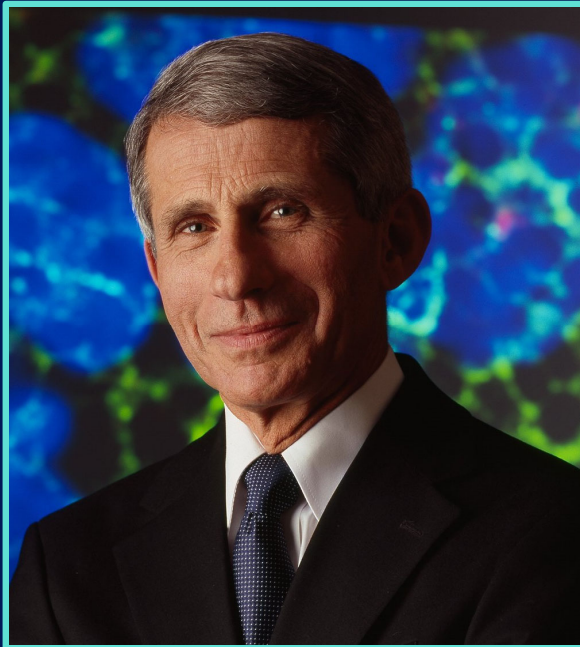


**Temesgen Fufa, Ph.D.**

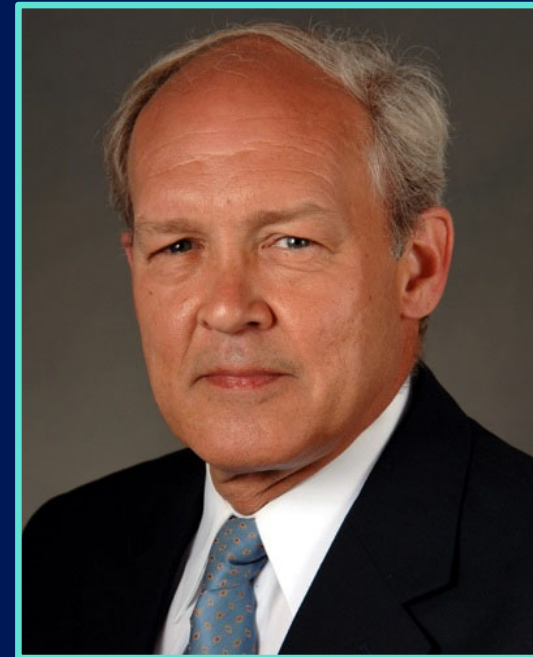
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# Departure of Director, National Institute on Allergy and Infectious Diseases



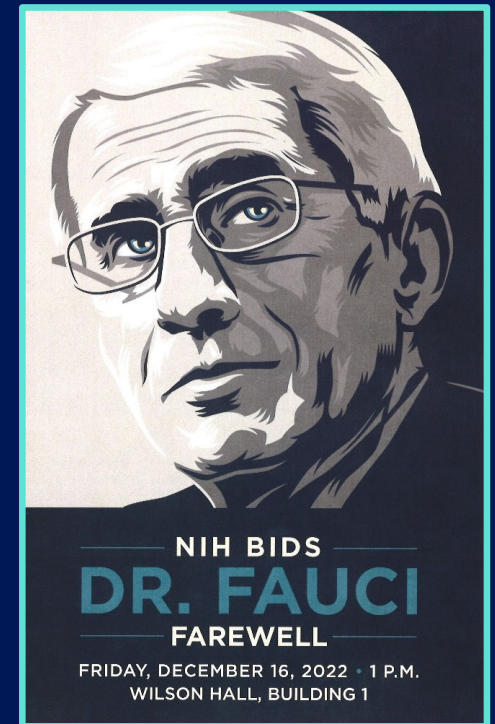
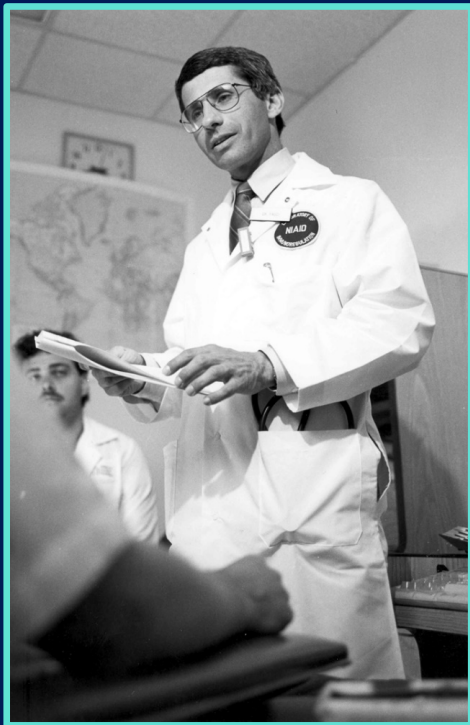
**Anthony Fauci, M.D.**



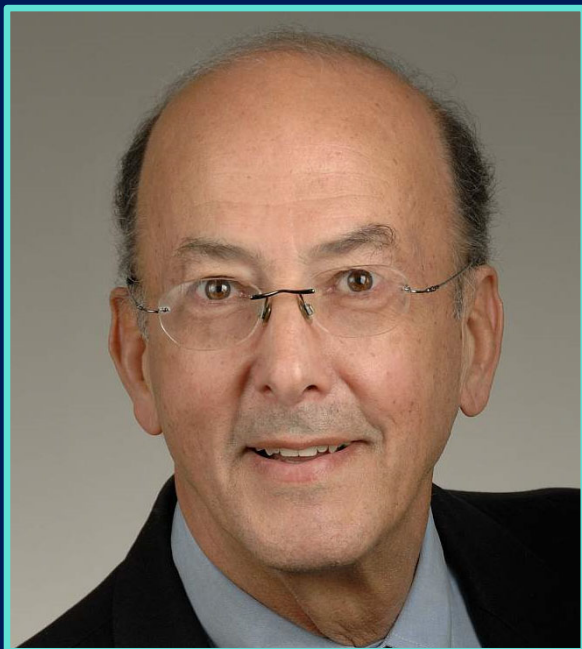
**Hugh Auchincloss, M.D.**



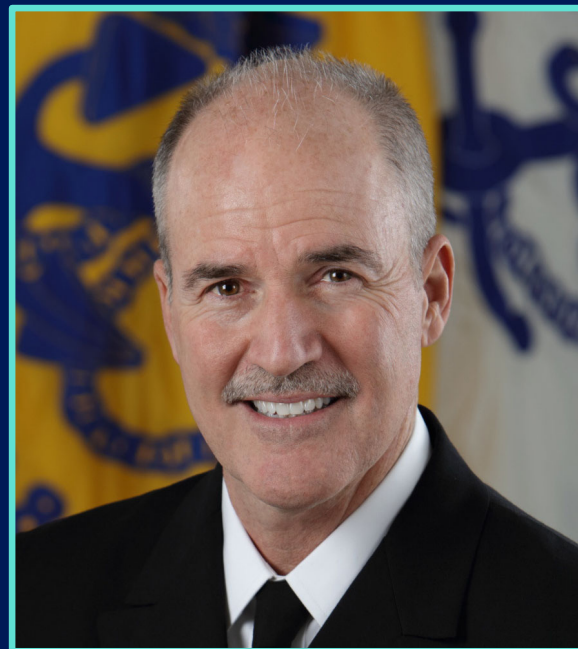
# Departure of Director, National Institute on Allergy and Infectious Diseases



# Departure of Director, Fogarty International Center



**Roger Glass, M.D., Ph.D.**



**Peter Kilmarx, M.D.**

## Departure of Director, Center for Information Technology



**Andrea Norris,  
M.B.A.**

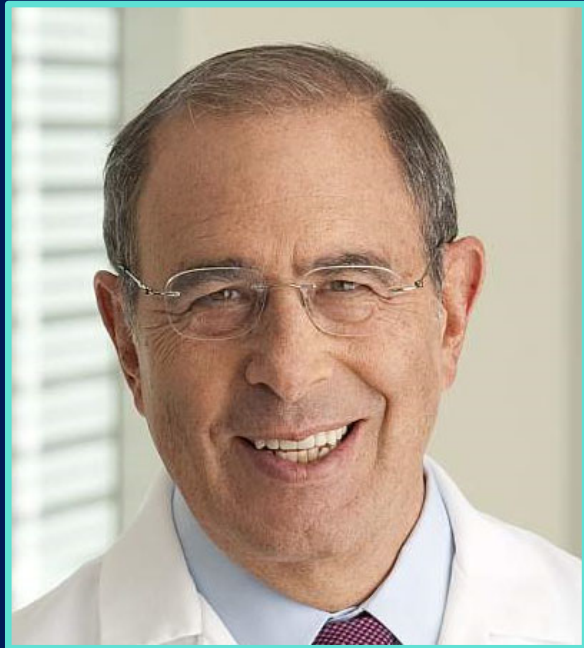


**Ivor D'Souza,  
M.S.**



**Dennis Papula,  
M.S.**

# Departure of Associate Director for Clinical Research



**John Gallin, M.D.**





# Departure of Associate Director for Legislative Policy and Analysis



**Adrienne Hallett, M.A.**



**Lauren Higgins**

# New Deputy Director for Intramural Research



**Nina Schor, M.D., Ph.D.**



# New Director, National Center for Advancing Translational Sciences



**Joni Rutter, Ph.D.**



# NIH Data Management and Sharing Policy



- **Effective January 25, 2023**
- **NHGRI's preparation for implementation of the policy:**
  - Guidance on where to share scientific data**
  - NHGRI sample DMS Plans**



# NIH Institute/Center Research Collaborations

## Report for Fiscal Years 2019-2021

IC	FY2019	FY2020	FY2021
NHGRI	36%	33%	33%
All NIH	17%	18%	18%



# Office of Science and Technology Policy Guidance

## Ensuring Free, Immediate, and Equitable Access to Federally Funded Research



### Memorandum to federal departments and agencies:

- Agencies must make publications that describe taxpayer-funded work freely available to the public by the end of 2025
- Agencies required to develop plans to improve transparency

# Science Policy Forum on NIH-led COVID-19 Response

## POLICY FORUM

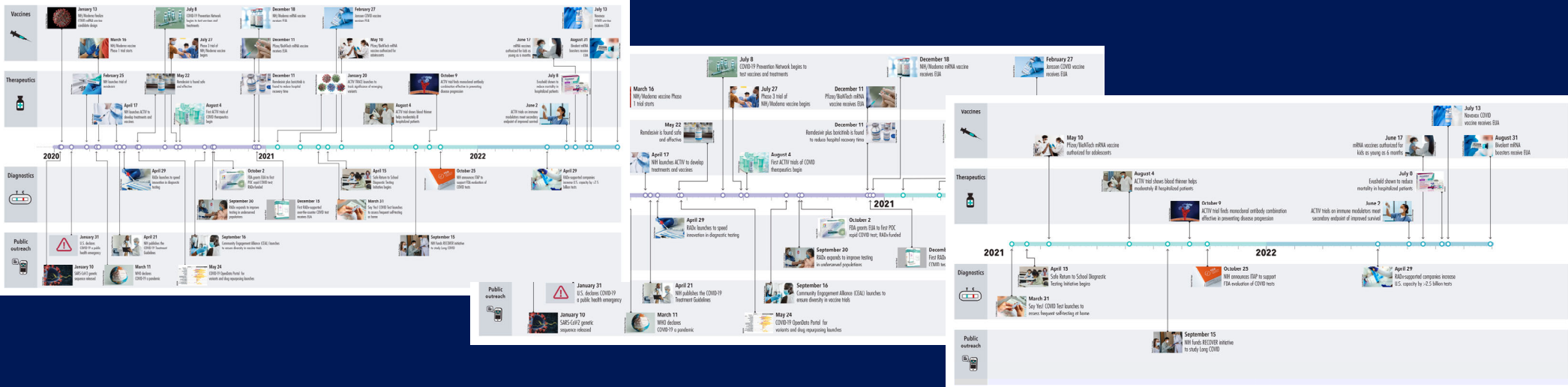
### BIOMEDICINE

# The NIH-led research response to COVID-19

Investment, collaboration, and coordination have been key

By Francis Collins<sup>1</sup>, Stacey Adam<sup>2</sup>, Christine Colvis<sup>3</sup>, Elizabeth Desrosiers<sup>4</sup>, Ruxandra Draghia-Akli<sup>5</sup>, Anthony Fauci<sup>6</sup>, Maria Freire<sup>2</sup>, Gary Gibbons<sup>7</sup>, Matthew Hall<sup>3</sup>, Eric Hughes<sup>8</sup>, Kathrin Jansen<sup>9</sup>, Michael Kurilla<sup>3</sup>, H. Clifford Lane<sup>6</sup>, Douglas Lowy<sup>10</sup>, Peter Marks<sup>11</sup>, Joseph Menetski<sup>1</sup>, William Pao<sup>9</sup>, Eliseo Pérez-Stable<sup>12</sup>, Lisa Purcell<sup>13</sup>, Sarah Read<sup>6</sup>, Joni Rutter<sup>3</sup>, Michael Santos<sup>2</sup>, Tara Schwetz<sup>14</sup>, Jeffrey Shuren<sup>11</sup>, Timothy Stenzel<sup>11</sup>, Paul Stoffels<sup>15</sup>, Lawrence Tabak<sup>14</sup>, Karen Tountas<sup>2</sup>, Bruce Tromberg<sup>16</sup>, David Wholley<sup>2</sup>, Janet Woodcock<sup>11</sup>, John Young<sup>17</sup>

Key milestones in developing COVID vaccines, therapeutics, diagnostics, and public outreach



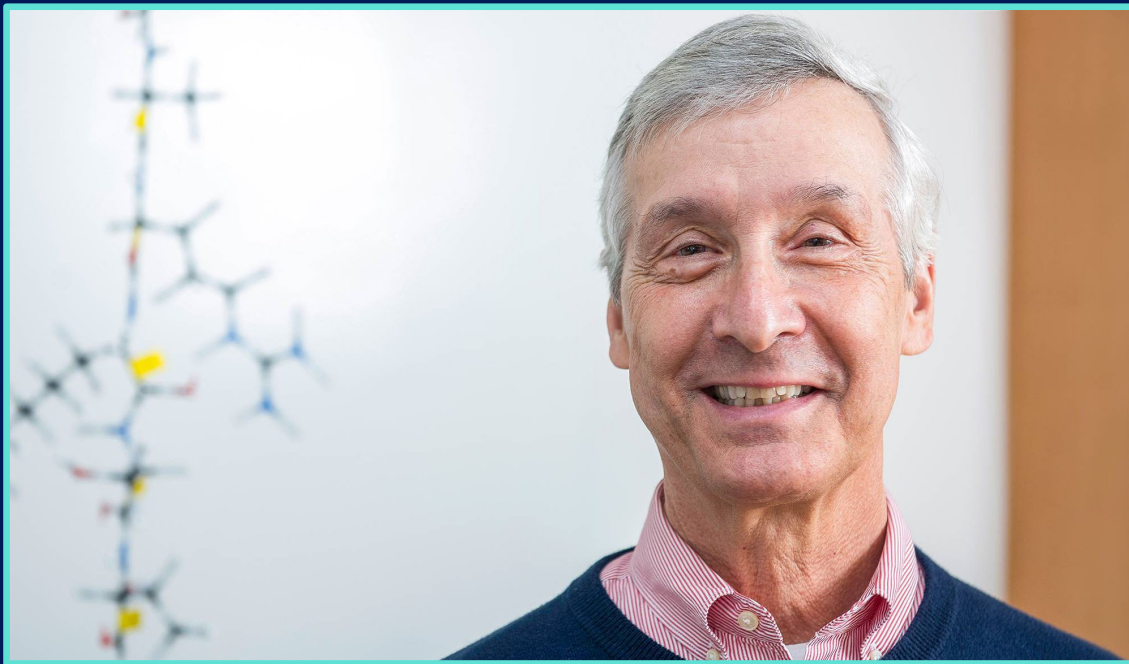
# Fiscal Year 2023 Appropriations

	<b>FY 2022 (\$)</b>	<b>FY 2023 (\$)</b>	<b>Increase (\$)</b>	<b>Increase (%)</b>
<b>NIH</b>	\$45.0 billion	\$47.5 billion	\$2.5 billion	5.6
<b>NHGRI</b>	\$639 million	\$663 million	\$24 million	3.8

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# Mourning the Loss of David Allis

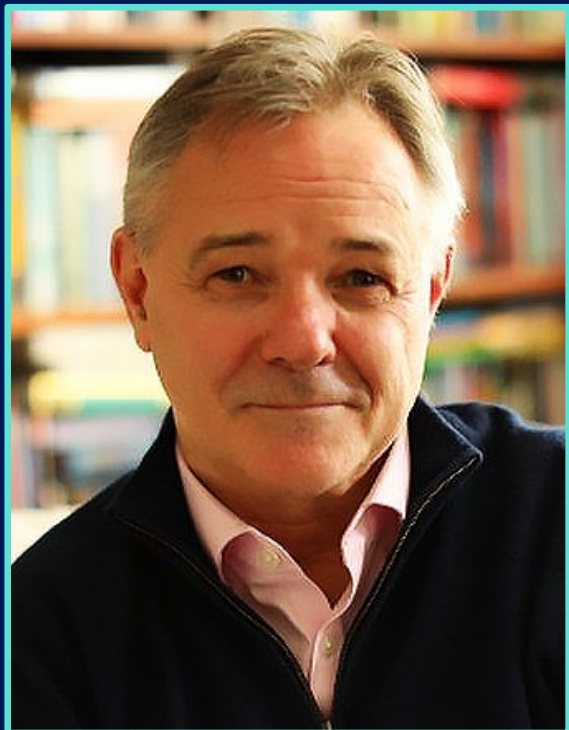




# Mourning the Loss of Barbara Migeon



# New Chief Scientist, World Health Organization



**Jeremy Farrar,  
OBE, FMedSci, FRS**





# 2022 Nobel Prize in Physiology or Medicine



**Svante Pääbo, Ph.D.**



# 2022 Lasker~DeBakey Clinical Medical Research Award

## Noninvasive Prenatal Testing Using Fetal DNA

2022 Lasker~DeBakey Clinical Medical Research Award



**Yuk Ming Dennis Lo**  
The Chinese University of Hong Kong



# Elected to National Academy of Medicine

**Steven Joffe**

**Eugene Koonin**

**Katherine Pollard**

**John Quackenbush**

**Norman Sharpless**

**Bruce Tromberg**

**Marylyn Ritchie**

**Sarah Tishkoff**



**NATIONAL ACADEMY OF MEDICINE**

## Elected to AAAS

Linda Birnbaum

Atul Butte

Cynthia Dunbar

Paul Liu

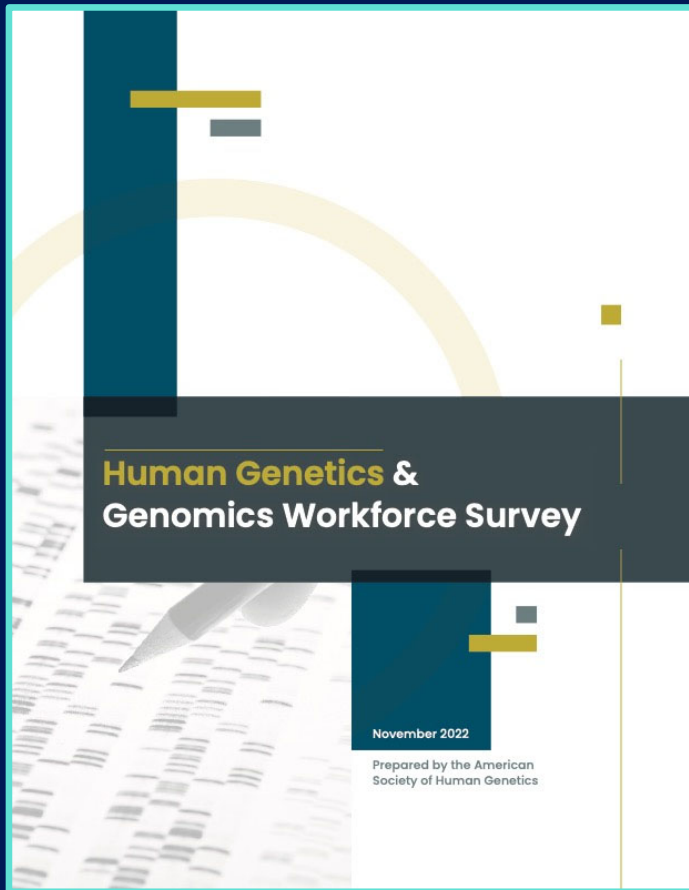
Alan Love

Robert Tjian

Elias Zerhouni



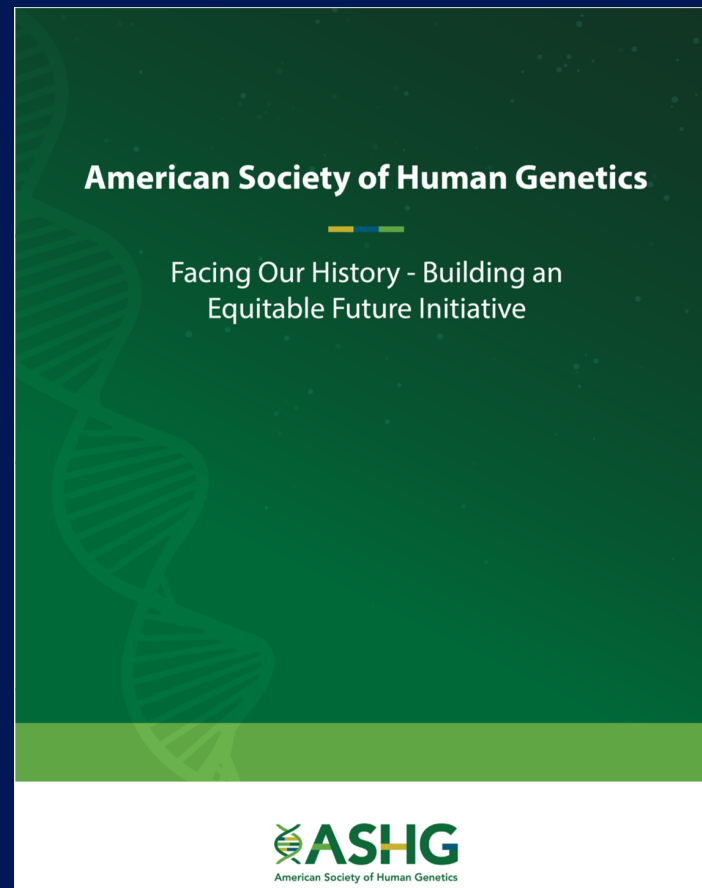
# Human Genetics & Genomics Workforce Survey Report



- Report from American Society of Human Genetics (ASHG) – with support from NHGRI
- Report lays important groundwork for future assessment and action
- Key respondent findings: 67.7% identified as White; 73.3% as U.S. Citizens; women made up majority of respondents
- NHGRI hosted webinar with report partners to explore key findings and define next steps

# American Society of Human Genetics

## Facing Our History – Building an Equitable Future Initiative





# 2022 American Society of Human Genetics Awards



Sir Peter Donnelly, FRS,  
FMedSci,  
2022 William Allan Award



Heidi Rehm, PhD, FACMG  
2022 Curt Stern Award



David L. Nelson, PhD  
2022 Victor A. McKusick  
Leadership Award



Eimear Kenny, PhD  
2022 Early Career Award

# NASEM Study

## Toward Sequencing and Mapping of RNA Modifications

- Consensus study on direct sequencing of RNA modifications
- Sponsored by: Warren Alpert Foundation, NIEHS, & NHGRI



NATIONAL  
ACADEMIES

*Sciences  
Engineering  
Medicine*

- Upcoming Workshop: March 14-15, 2023



# Global Alliance for Genomics and Health (GA4GH)



- 10<sup>th</sup> plenary meeting in September 2022
- 11 NIH-supported GA4GH Driver Projects (out of 24 projects)
- Call for new GA4GH Driver Projects and Strategic Partnerships
- GA4GH Assigned Expert program extends global reach

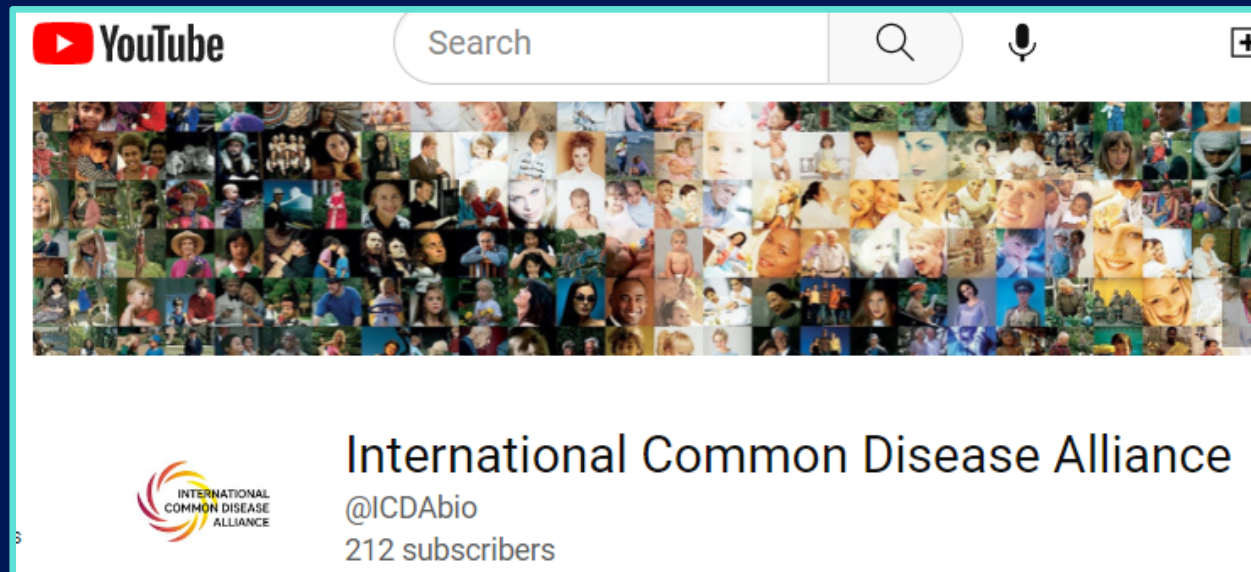
# Global Biodata Coalition



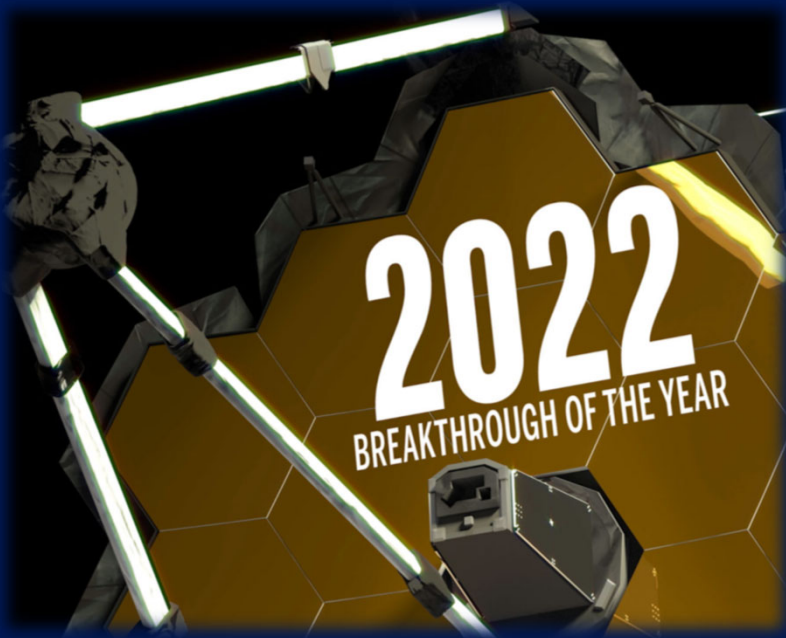
- **First set of Global Core Biodata Resources (GCBRs) selected**
- **GCBRs of fundamental importance to life sciences around the world, and the long-term preservation of biological data**
- **Of the 37 resources selected, 16 are funded by NHGRI**

# International Common Disease Alliance

- ICDA Scientific Plenary Meeting in December 2022
- Meeting focused on proposals for moving from Maps to Mechanism to Medicine



# Science's 2022 Breakthrough of the Year & Runners Up



**Black Death's legacy  
detected in the genes  
of Europeans**



**Ancient ecosystem  
reconstructed from  
2-million-year-old DNA**



# *Nature's* 10 People Who Helped Shape Science in 2022



# *The Scientist's Top Innovations of 2022*



**Machine to sequence the genome for \$100**

**Instruments for single-cell analysis**

**Non-invasive prenatal testing**

**3D view of gene expression**

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# Human Genome Reference Program (HGRP)



- **Annual HPRC meeting (October 2022)**
  - Sample selection and collection
  - Embedded ELSI research
  - Changes in DNA sequence-production costs
- **HGRP planning meeting (October 2022)**



# Genomics Research Enhances Genetics of Rare Disease (GREGoR) Consortium



- **First in-person GREGoR Consortium Meeting**  
**November 2022**  
**Over 140 participants**
- **Key themes of networking and collaboration**  
**Identifying challenges to solving Mendelian disorders**  
**Internal and external collaboration**

# Impact of Genomic Variation on Function (IGVF)

## First Annual Consortium Meeting



**September 2022**

### Meeting focus:

- Coordinating activities
- Engaging trainees
- Fostering interactions
- Defining future goals

# Impact of Genomic Variation on Function (IGVF)

## IGVF Affiliate Membership

- **Affiliate role**
  - Contribute to data sharing and analysis
  - Engage in Consortium
  - Broaden participation
- **Current affiliate members**
  - 17 members
  - U.S. and Europe



● Affiliate Sites in Continental U.S.

# Molecular Foundations for Biotechnology (MFB) Partnerships to Transform Emerging Industries

## RNA Tools/Biotechnology



- **NSF23-554: Partnership between NSF & NHGRI**
- **Soliciting synergistic proposals:**
  - Study RNA function in complex biological systems**
  - Harness RNA research to advance biotechnology**
  - Integrate across disciplines**
- **Letters of intent due: March 16, 2023**
- **Full proposal due: May 11, 2023**

# Analysis, Visualization, and Informatics Lab-space (AnVIL)

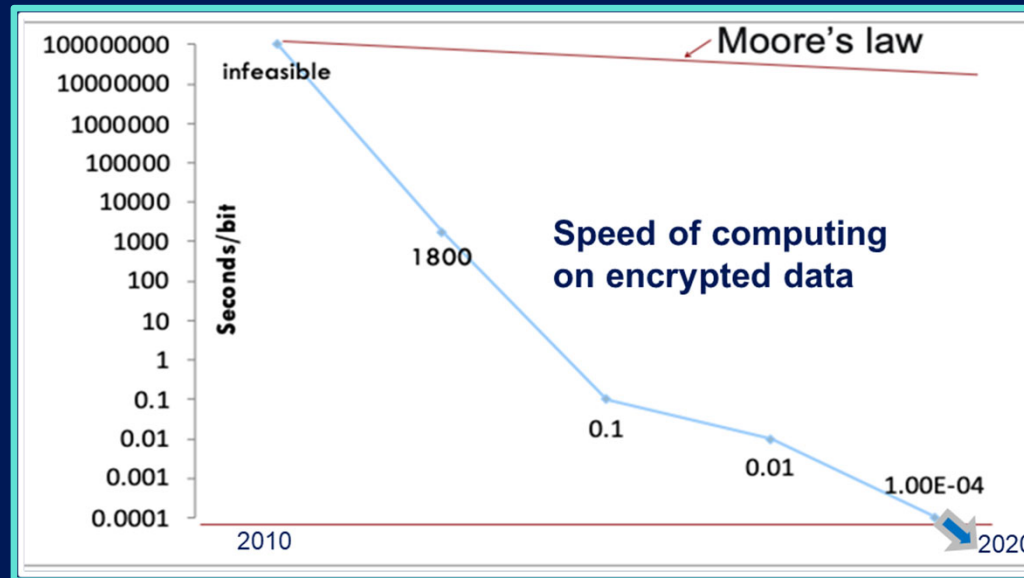
## Data Use Oversight System (DUOS) Pilot



- **DUOS expedites controlled data access**
- **By mid-2023, DUOS will be used by the NHGRI Data Access Committee to process all data access requests**

# iDASH Genomic Privacy Challenge 2022

- Privacy algorithms rapidly becoming practical in real-world use
- Compute time decreasing faster than Moore's Law



- iDASH challenge winners building useful genomics applications

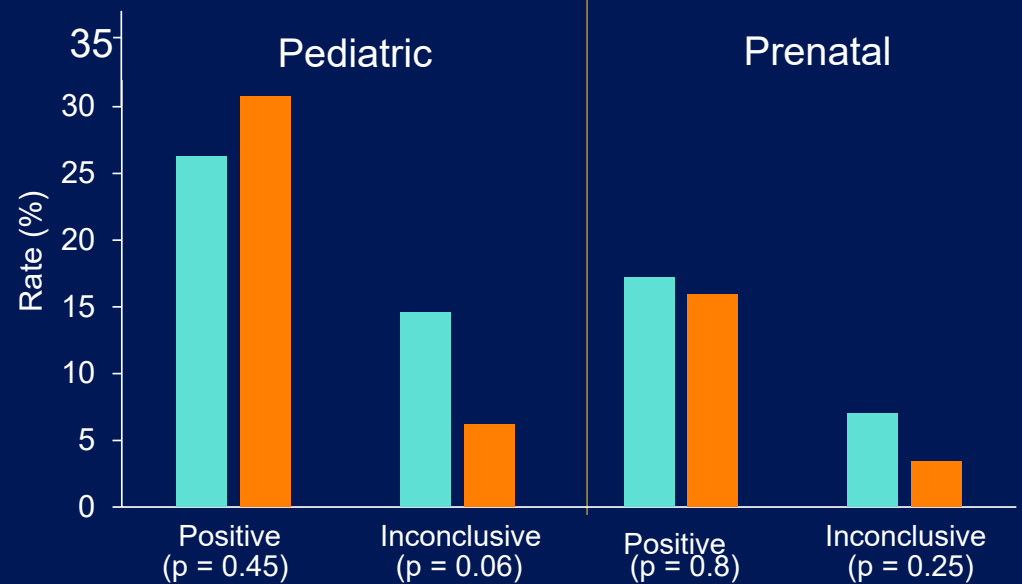


# Clinical Sequencing Evidence-generating Research Program (CSER)



- 10 presentations
- P3EGS: Rates of positive diagnoses and inconclusive findings were similar between URM and non-URM children
- KidsCanSeq: Combined exome sequencing and panel testing may improve utility in pediatric cancer

Similar Rates of Positive Diagnoses and Inconclusive Findings in URM and non-URM Pediatric and Prenatal Exome Sequencing



Courtesy of Anne Slavotinek (unpublished)



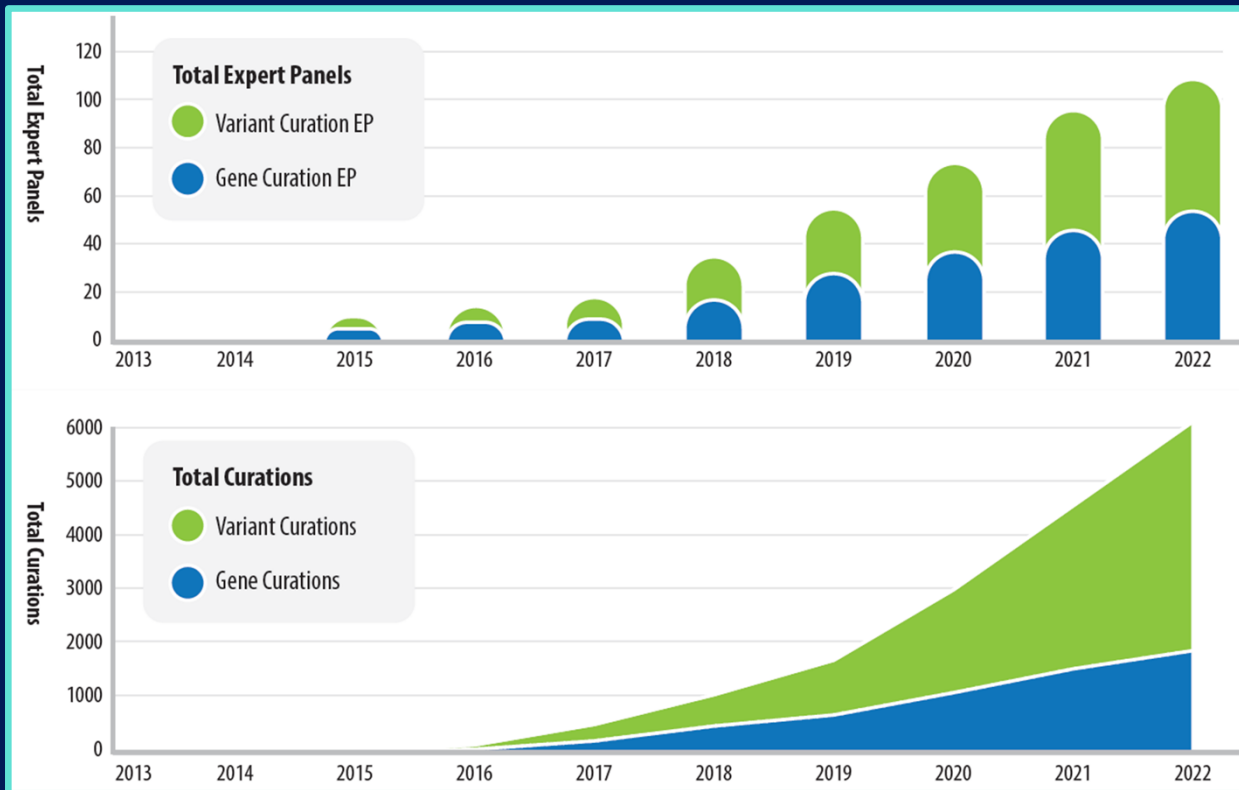


# Clinical Genome Resource (ClinGen)

## Efforts Toward Sustainability



### Increased Curation Output



### Other NIH Funding

NCI  
NEI  
NICHD  
NINDS

### Non-NIH Funding



# Phenotypes and Exposures (PhenX) Toolkit

The screenshot shows the PhenX Toolkit website interface. At the top left is the logo 'PhenX Toolkit' with a DNA helix icon. To the right are buttons for 'Register', 'Log in', and 'My Toolkit'. Below the logo is a navigation menu with links for Home, Protocols, Search, Resources, News, Help, About, and Contact. A search bar is located below the menu, with the text 'Search: Search all protocols in the Toolkit using keywords (e.g. diabetes) or PhenX ID (e.g. 011502)'. The main content area features a banner for 'New COVID-19 Research Collections, click here.' Below this is a section titled 'What does PhenX Toolkit include?' with a list of bullet points: 'Measurement protocols that address a wide range of research domains', 'Information about each protocol to ensure consistent data collection', 'Collections of protocols that add depth to the Toolkit in specific areas', and 'Tools to help investigators implement the measurement protocols'. To the right of this section are three buttons: 'Research Domains', 'Browse Protocols Tree', and 'Research Using PhenX'. At the bottom, there are six icons representing different research areas: Substance Abuse and Addiction (green triangle), Tobacco Regulatory Research (four overlapping circles), Mental Health Research (green head with gears), Blood Sciences Research (red blood drop), Social Determinants of Health (three houses), and COVID-19 Research (red and white virus particle).

## PhenX Toolkit renewed (Fiscal Years 2022-2026)

- Carol Hamilton, RTI International
- Funded as Trans-NIH Biomedical Knowledgebase
- Co-funding from NHLBI, NIMHD, NINDS, and OBSSR

# Phenotypes and Exposures (PhenX) Toolkit

## Expanded Social Determinants of Health Collection

### PhenX Social Determinants of Health Assessments Collection

An open-access resource for standard social determinants of health measures.

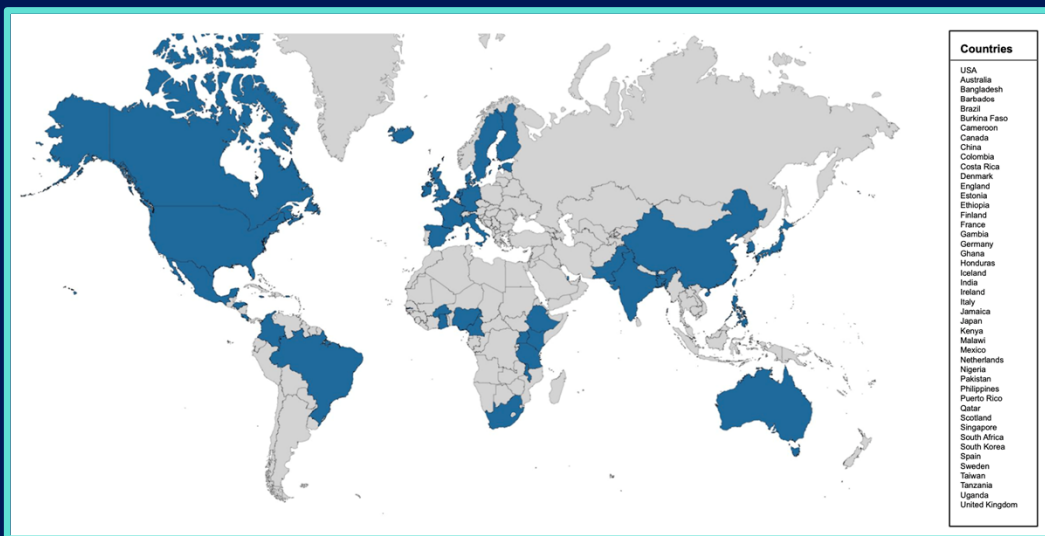


**NIH** National Institute on Minority Health and Health Disparities



- 15 new protocols
- Protocols include:
  - Internet access
  - Minimum wage
  - Healthcare discrimination

# Polygenic Risk MEthods in Diverse populations Consortium (PRIMED)



## Working Groups:

- Data Sharing
- Genotype Harmonization
- Methods Review
- Phenotype Harmonization
- Social and Ethical Implications of Polygenic Risk

**Establishment of PRIMED External Scientific Panel**

## Small Business Program

- ~\$16.5 million in Fiscal Year 2022
- 19 Phase I Proof of Principle awards
- 11 Phase II Pre-Commercialization awards

The logo for CURIO, featuring the word "CURIO" in a stylized, teal-colored font with a circular element at the end of the "O".

CURIO

The logo for ARMONICA TECHNOLOGIES, INC, with "ARMONICA" in red and "TECHNOLOGIES, INC" in black.

ARMONICA  
TECHNOLOGIES, INC



Electronic  
BIOSCIENCES



Primordial Genetics

The logo for Datirium, featuring a stylized white graphic of a DNA double helix and the word "Datirium" in a white, sans-serif font.

Datirium

# Extramural Training Program

- Outreach at the 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS)
- Publication of the conference report on the 2022 NHGRI Research Training and Career Development Annual Meeting

Conference Report

For reprint orders, please contact: [reprints@futuremedicine.com](mailto:reprints@futuremedicine.com)

  
**Personalized  
Medicine**

Conference Report: NHGRI Research Training  
and Career Development Annual Meeting

Susanne B Haga\*,<sup>1</sup> 

<sup>1</sup>Duke University School of Medicine, Department of Medicine, Division of General Internal Medicine, Durham, NC 27708, USA

\*Author for correspondence: Tel.: 919 684 0325; [susanne.haga@duke.edu](mailto:susanne.haga@duke.edu)



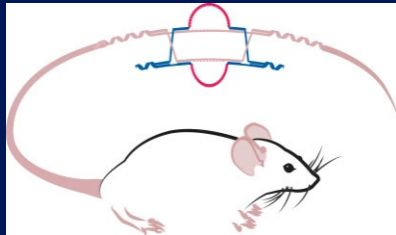


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# Knockout Mouse Phenotyping Project (KOMP2)



- Awards funded for a final five-year project period

**UCDAVIS**

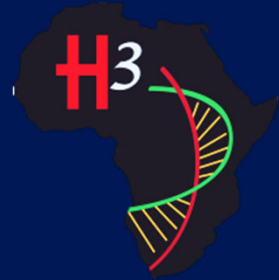


Baylor  
College of  
Medicine®



- Annual meeting held December 2022

# Human Heredity & Health in Africa (H3Africa)



Setting the agenda in research

## Comment



Scientists at the African Centre of Excellence for Genomics of Infectious Diseases in Ede, Nigeria, prepare samples for DNA sequencing.

## Could Africa be the future for genomics research?

Zané Lombard & Guida Landouré for the H3Africa Steering Committee

# Human Biomolecular Atlas Program (HuBMAP)

Now in Production Phase (Fiscal Years 2022-2026)



**6 HuBMAP Integration,  
Visualization, and  
Engagement Groups**

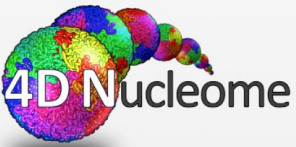


**10 Tissue Mapping Centers**



**4 Demonstration Projects**





# 4D Nucleome (4DN)

CellPress Cell

*Human Molecular Genetics*, 2022, Vol. 31, R1, R47–R53

CellPress Cell

**Molecular Cell** CellPress

Perspective  
**Elucidating the structure and function of the nucleus –  
The NIH Common Fund 4D Nucleome program**

Ananda L. Roy,<sup>1,2,3,\*</sup> Richard S. Conroy,<sup>1,2,3</sup> Veronica G. Taylor,<sup>1,2,3</sup> Judy Mietz,<sup>4</sup> Ian M. Fingerman,<sup>4</sup> Michael J. Pazin,<sup>5</sup> Phillip Smith,<sup>6</sup> Carolyn M. Hutter,<sup>5</sup> Dinah S. Singer,<sup>4</sup> and Elizabeth L. Wilder<sup>1,2,3</sup>



# Faculty Institutional Recruitment for Sustainable Transformation (FIRST)

## 2022 Awardees

<b>Institution</b>	<b>Principal Investigators</b>
<b>Northwestern University in Chicago</b>	<b>Melissa Simon, Eric Perreault, Clyde Yancy</b>
<b>University of California, San Diego</b>	<b>JoAnn Trejo, María Elena Martinez</b>
<b>University of Maryland Baltimore</b>	<b>James Kaper, William LaCourse</b>
<b>The University of New Mexico</b>	<b>Jane Ellen Smith, Irene Salinas</b>
<b>University of South Carolina in Columbia</b>	<b>Angela D. Liese, Coretta Jenerette</b>

# All of Us

RESEARCH PROGRAM

- Return of health-related genetic results to participants
- New Funding Opportunity Announcements
  - RFA-PM-23-001
  - RFA-PM-23-002
  - Due date: March 1, 2023



# Bespoke Gene Therapy Consortium (BGTC)

Government	Industry	Non-Profit
 NCATS    NHLBI NEI      NHGRI NICHD	            	         

## Candidate Diseases:

- Congenital Hereditary Endothelial Dystrophy
- MPS VI Corneal Disease
- Leber Congenital Amaurosis 16
- Retinitis Pigmentosa - *CNGB1*
- Retinal Degeneration - *NPHP5*
- Charcot Marie Tooth Disease, Type 4J
- Multiple Sulfatase Deficiency
- Spastic Paraplegia, Type 47
- Spastic Paraplegia, Type 50
- Barth Syndrome
- *PGM1*-Congenital Disorder of Glycosylation
- Propionic Acidemia
- Fibrodysplasia Ossificans Progressiva
- Mucopolysaccharidosis IVA (Morquio A Syndrome)



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# Talking Glossary of Genomic and Genetic Terms

The screenshot shows the homepage of the 'Talking Glossary of Genomic and Genetic Terms' on the NIH website. The page features a dark blue header with the NIH logo and navigation links. The main content area has a large title and a brief description of the glossary. Below the description is a search bar. At the bottom, there is an alphabetical index and a 'Popular' section with four featured terms: Gene Therapy, Genetic Code, Chromosome, and Codominance, each with a small illustrative image.

National Human Genome Research Institute

Begin your search here

About Genomics Research Funding Research at NHGRI Health Careers & Training News & Events About NHGRI

## Talking Glossary of Genomic and Genetic Terms

The glossary features nearly 250 terms explained in an easy-to-understand way by leading scientists and professionals at the National Human Genome Research Institute.

type to search

Browse Alphabetically | En Español

**A**  
Adenine

**B**  
Allele

**C**  
Amino Acid

**D**  
Aneuploidy

**E**  
Animal Model

**F**  
Anticodon

**I**  
Antisense

**K**  
Autism

### Popular

Gene Therapy

Genetic Code

Chromosome

Codominance

The image shows the cover of the journal 'Clinical Chemistry'. The title is in large white letters on a red background. Below the title, it says 'Volume 68 • Number 12 • Pages 1479-1586 • December 2022 • www.clinchem.org'. The central illustration depicts a DNA double helix interacting with a protein structure embedded in a lipid bilayer. At the bottom, the logos for 'OXFORD UNIVERSITY PRESS' and 'AACC' are visible.

# Clinical Chemistry

Volume 68 • Number 12 • Pages 1479-1586 • December 2022 • www.clinchem.org

OXFORD UNIVERSITY PRESS

AACC

~18.4 million page views

# NHGRI History of Genomics Program



## Recent Events



**Irreducible Subjects:**  
Disability and Genomics in the  
Past, Present and Future

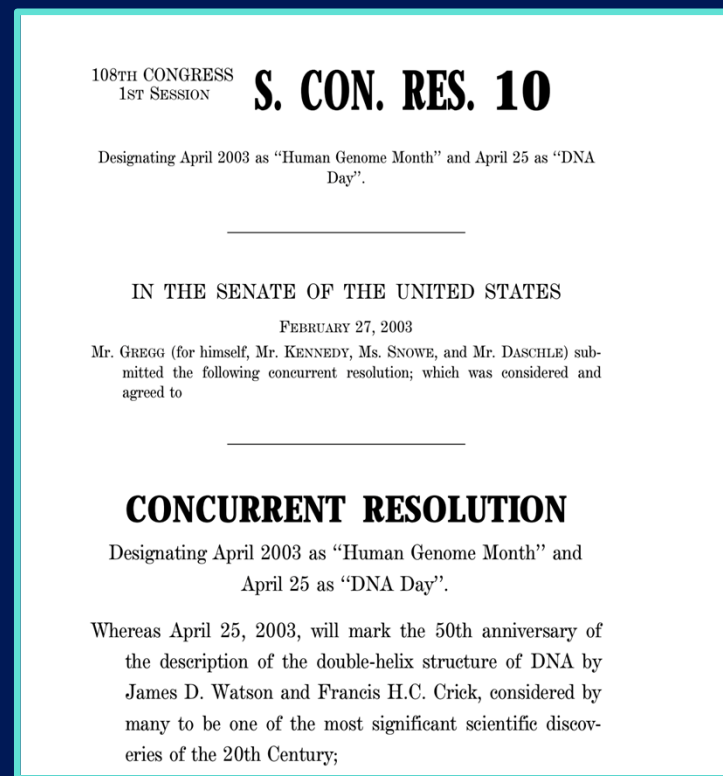
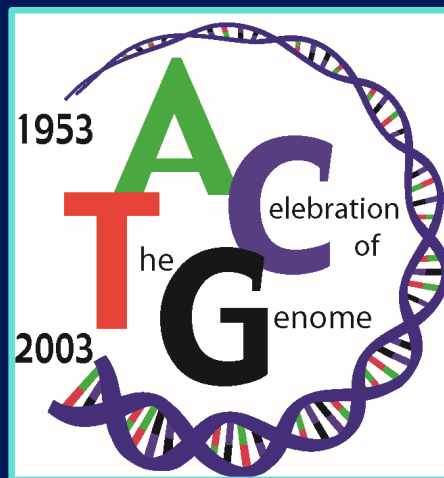
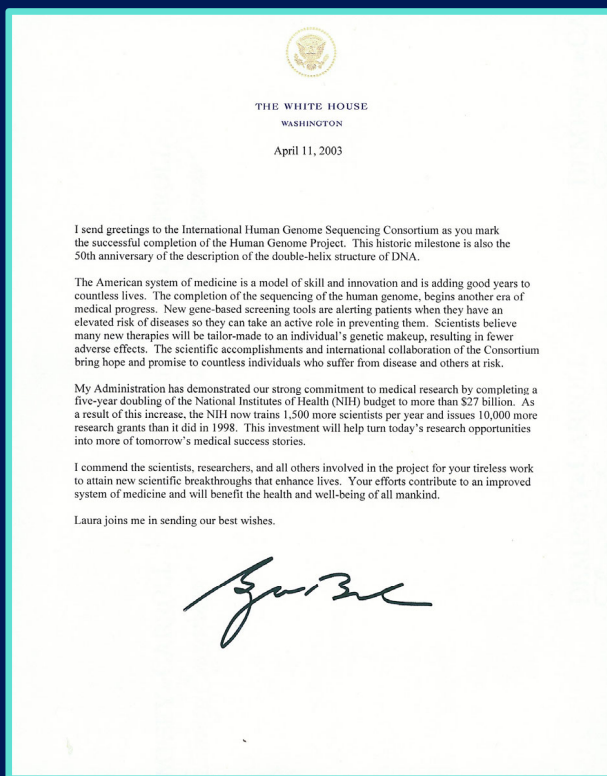
Oct. 6-7, 2022 10 a.m. EDT  
Webinar Day 1

**#NHGRIevents**

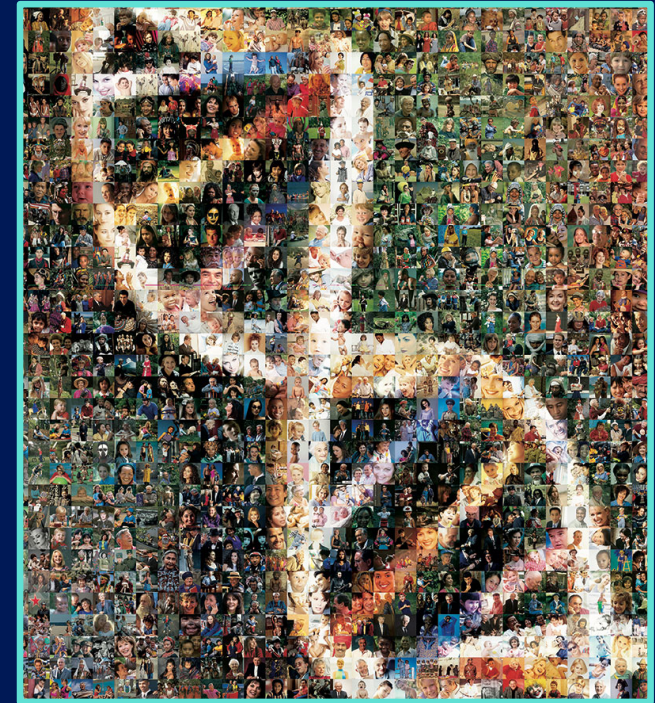
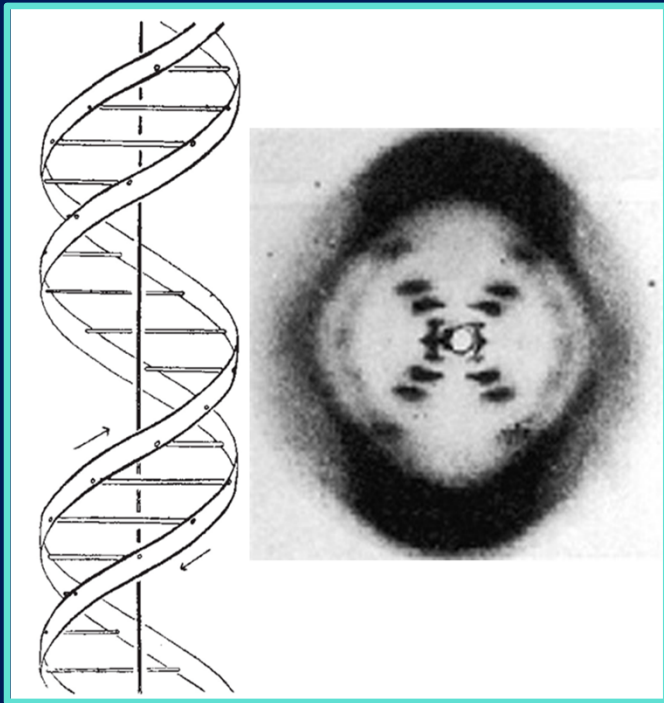


# NHGRI History of Genomics Program

## Archive Highlight

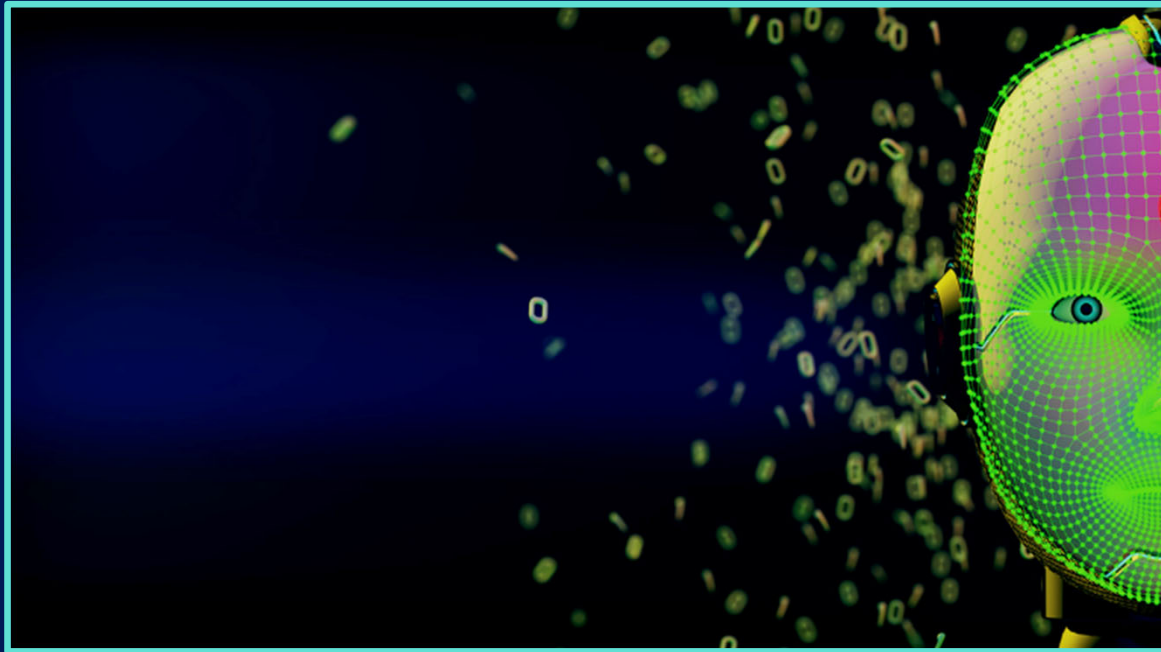


# Genomics Anniversaries in 2023





# Communications on Artificial Intelligence in Genomics



- **Feature story on AI and ML research at NHGRI**
- **Video with Benjamin Solomon, Susan Persky, and Oleg Shchelochkov**
- **Twitter Q&A with Spencer Hong (Ph.D. Candidate)**

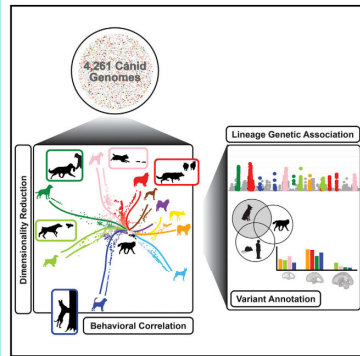
# Communications on the NHGRI Dog Genome Project

Cell

Article

## Domestic dog lineages reveal genetic drivers of behavioral diversification

### Graphical abstract



### Authors

Emily V. Dutrow, James A. Serpell, Elaine A. Ostrander

### Correspondence

eostrand@mail.nih.gov

### In brief

A framework for understanding the relationships between canine breeds allows for the identification of genetic drivers of the behaviors that define them.

### Highlights

- High-dimensional data analysis reveals canine lineages, resolving breed relationships
- Canine behavioral diversification predates modern breed formation
- Ancient non-coding variation drives working role-related dog behaviors
- Canine genetic diversity is associated with neurodevelopmental gene co-expression

Dutrow et al., 2022, Cell 185, 4737–4755  
December 8, 2022 Published by Elsevier Inc.  
<https://doi.org/10.1016/j.cell.2022.11.003>

CellPress



The New York Times





# Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC-PEG)

2022-2024 Scholars



**Ava Willoughby**



**Molly Felix**

# Director's Report Outline

- I. General NHGRI Updates
- II. General NIH Updates
- III. General Genomics Updates
- IV. NHGRI Extramural Research Program
- V. NIH Common Fund/Trans-NIH
- VI. NHGRI Communications, Policy, and Education
- VII. NHGRI Intramural Research Program**

# Retirement of Intramural Investigators



**Joan Bailey-  
Wilson, Ph.D.**



**David Bodine, Ph.D.**



**Jim Mullikin, Ph.D.**

# New Chief, NHGRI Metabolic Medicine Branch



**Charles Venditti, M.D., Ph.D.**



# NHGRI Intramural Research Highlights



**Genetics  
in  
Medicine**

**Educational considerations based on medical student use of polygenic risk information and apparent race in a simulated consultation**



**AJHG**

**Genotype first: Clinical genomics research through a reverse phenotyping approach**

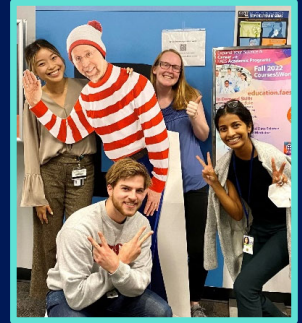


**PNAS**

**A family of unusual immunoglobulin superfamily genes in an invertebrate histocompatibility complex**



# Where's Eric?





## Where's Eric?



**Where's  
Laura?**



**Where's  
Stephen?**



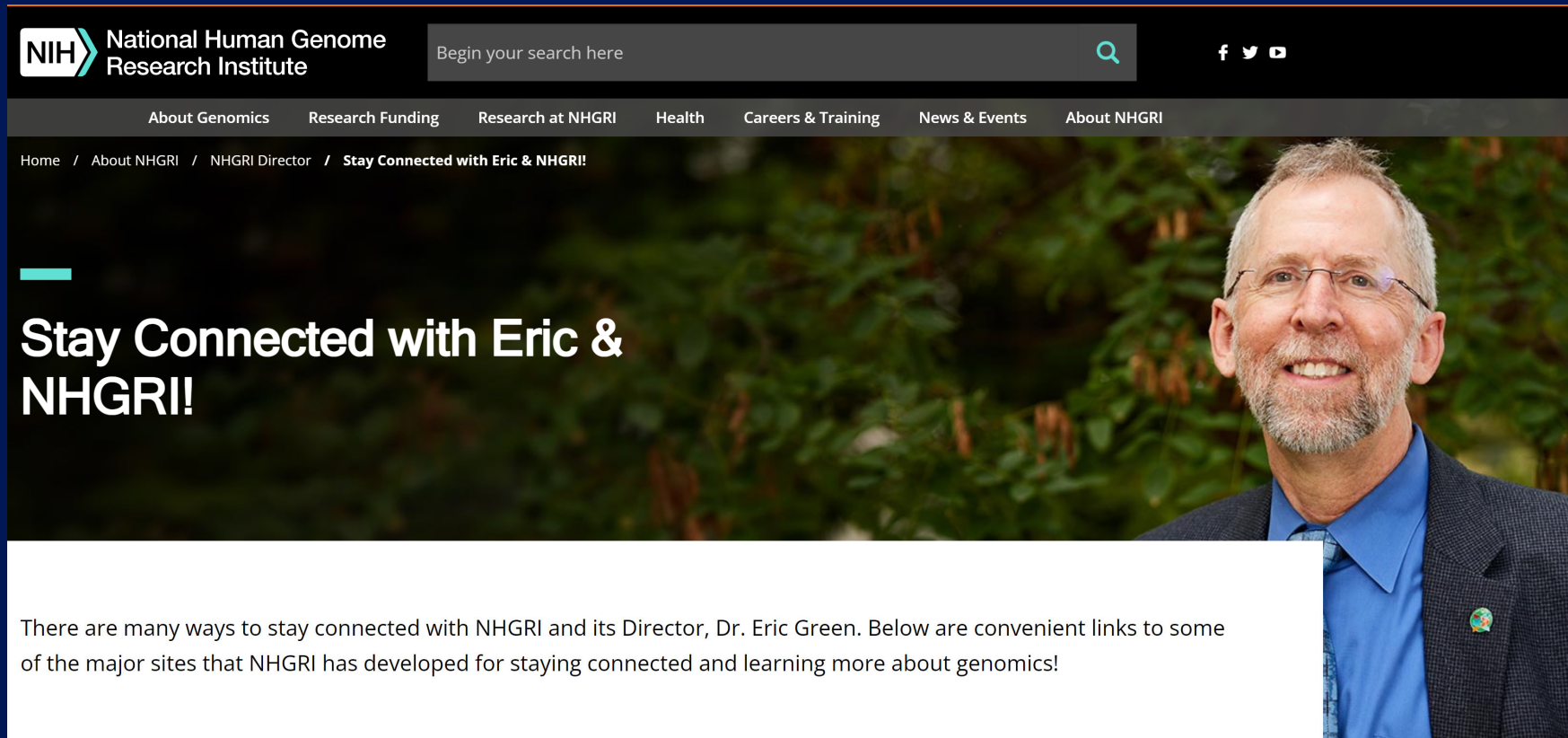
**Where's  
Gail?**



**Where's  
Hal?**

# 'One-Stop-Shop' to Stay Connected

## genome.gov/stayconnected



The screenshot shows the top navigation bar of the NIH website, including the NIH logo, a search bar with the text "Begin your search here", and social media icons for Facebook, Twitter, and YouTube. Below the navigation bar is a breadcrumb trail: "Home / About NHGRI / NHGRI Director / Stay Connected with Eric & NHGRI!". The main content area features a large photograph of Dr. Eric Green, the NHGRI Director, smiling. To the left of the photo, the heading "Stay Connected with Eric & NHGRI!" is displayed. Below the heading, a white text box contains the following text: "There are many ways to stay connected with NHGRI and its Director, Dr. Eric Green. Below are convenient links to some of the major sites that NHGRI has developed for staying connected and learning more about genomics!".

NIH National Human Genome Research Institute

Begin your search here

About Genomics Research Funding Research at NHGRI Health Careers & Training News & Events About NHGRI

Home / About NHGRI / NHGRI Director / **Stay Connected with Eric & NHGRI!**

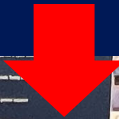
## Stay Connected with Eric & NHGRI!

There are many ways to stay connected with NHGRI and its Director, Dr. Eric Green. Below are convenient links to some of the major sites that NHGRI has developed for staying connected and learning more about genomics!



National Human Genome  
Research Institute

**Thanks!**



**Special Thanks!**



The **Forefront**  
of **Genomics**<sup>®</sup>