

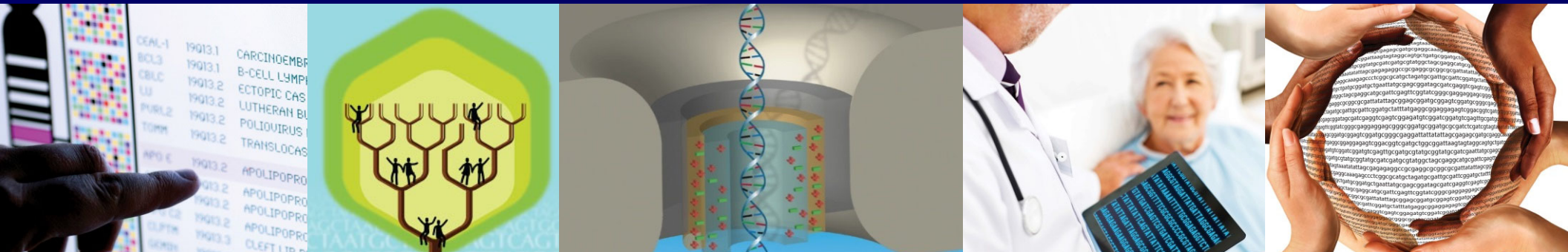


—
The **Forefront**
of **Genomics**
—

DIRECTOR'S REPORT

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

September 2023



Director's Report-Related Documents

September 2023

Director's Report 
Director's Report 

No.	Relevant Documents
1	Upcoming Retirement of Director, Division of Extramural Operations
2	New Incoming Director, Division of Extramural Operations
3	New NIH-ACMG Fellows
4	New AAAS Fellow
5	New ASHG-NHGRI Genomics and Public Service Fellowship Program

genome.gov/DirectorsReport

Document # 

Open Session Agenda

Special Celebration:

100th Meeting of the NACHGR

Eric Green

Presentation:

Research Priorities for Office of Data Science Strategy

Susan Gregurick

Concept Clearance:

Machine Learning and Artificial Intelligence Tools to Advance
Genomic Translational Research

Sandhya Xirasagar

Open Session Agenda

Concept Clearances:

NHGRI Technology Development Coordinating Center

Stephanie Morris

Genomic Medicine eConsult Service

Renee Rider

Genomic Research Experiences for Data Scientists

Sandhya Xirasagar

Research Experiences in Genomic Research for Genetic Counselors

Heather Colley

Open Session Agenda

Presentations:

Genomics & Society Working Group

Malia Fullerton

**NHGRI Office of Communications and History of Genomics
Program**

Sarah Bates & Christopher Donohue

**Using Machine Learning and Artificial Intelligence Methods in
History of Genomics Archival Research**

Spencer Hong & Thomas Stoeger

Clinical Sequencing Evidence-Generating Research

Gail Jarvik & Kyle Brothers

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

Director's Report Outline

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- II. General NIH Updates**
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Upcoming Retirement of Director, Division of Extramural Operations



Bettie Graham, Ph.D.



New Incoming Director, Division of Extramural Operations



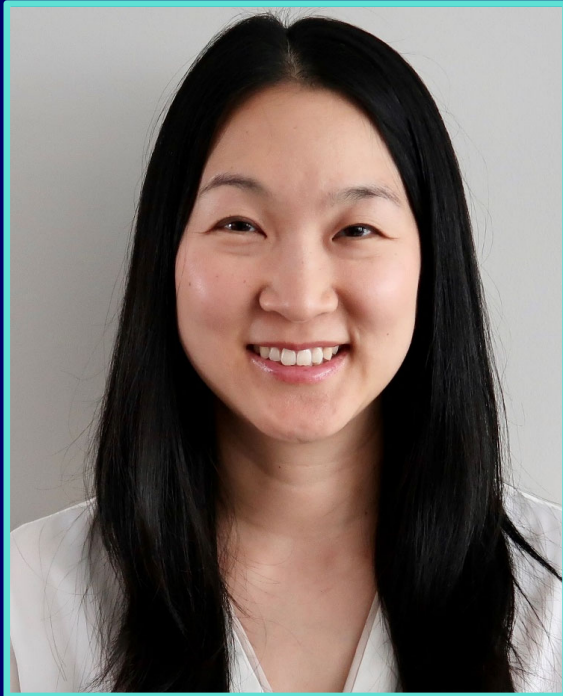
Jennifer Troyer, Ph.D.

New Extramural Program Director



Ian Nova, Ph.D.

New NIH-ACMG Fellows



**Jessica Chong,
P.A.-C.**



**Karyn Roberts,
Ph.D., R.N.**

New AAAS Fellow



Molly Bird, Ph.D.

New ASHG-NHGRI Genomics and Public Service Fellowship Program

Genomics and Public Service Fellowship Program

Genetics and Public Policy Fellowship



Genetics Education and Engagement Fellowship



Genomics Communications Fellowship



Post-Baccalaureate Genomics Analyst Fellowship

Applications open on
October 1, 2023

Director's Report Outline

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- VII. NHGRI Intramural Research Program

New Director, Centers for Disease Control and Prevention



**Mandy Cohen,
M.D., M.P.H.**



Retirement of Director, National Library of Medicine



**Patricia Brennan,
R.N., Ph.D.**



**Stephen Sherry,
Ph.D.**

New Associate Director, NIH Behavioral and Social Sciences Research



**Jane Simoni,
Ph.D.**



New Director, National Institute of Allergy and Infectious Diseases



**Jeanne Marrazzo,
M.D.**



NIH Mission Statement: Request for Information

Request for Information (RFI): Inviting Comments and Suggestions on Updating the NIH Mission Statement

Notice Number:
NOT-OD-23-163

Key Dates

Release Date: August 25, 2023

Response Date: November 24, 2023

Related Announcements

None

Issued by

NATIONAL INSTITUTES OF HEALTH (NIH)

Purpose

This Notice is a Request for Information (RFI) inviting feedback on a proposed update to the NIH mission statement. As the largest public funder of biomedical and behavioral research in the world, NIH works to turn scientific discoveries into better health for all. This RFI will inform NIH's efforts to update its mission statement to ensure that it reflects the NIH mission as accurately as possible.

Review of this entire RFI notice is encouraged to ensure your response is comprehensive and to have a full understanding of how it will be used.



Give Us Your Input:
NIH invites feedback on a proposed
update to the NIH mission statement

Open until
November 24, 2023



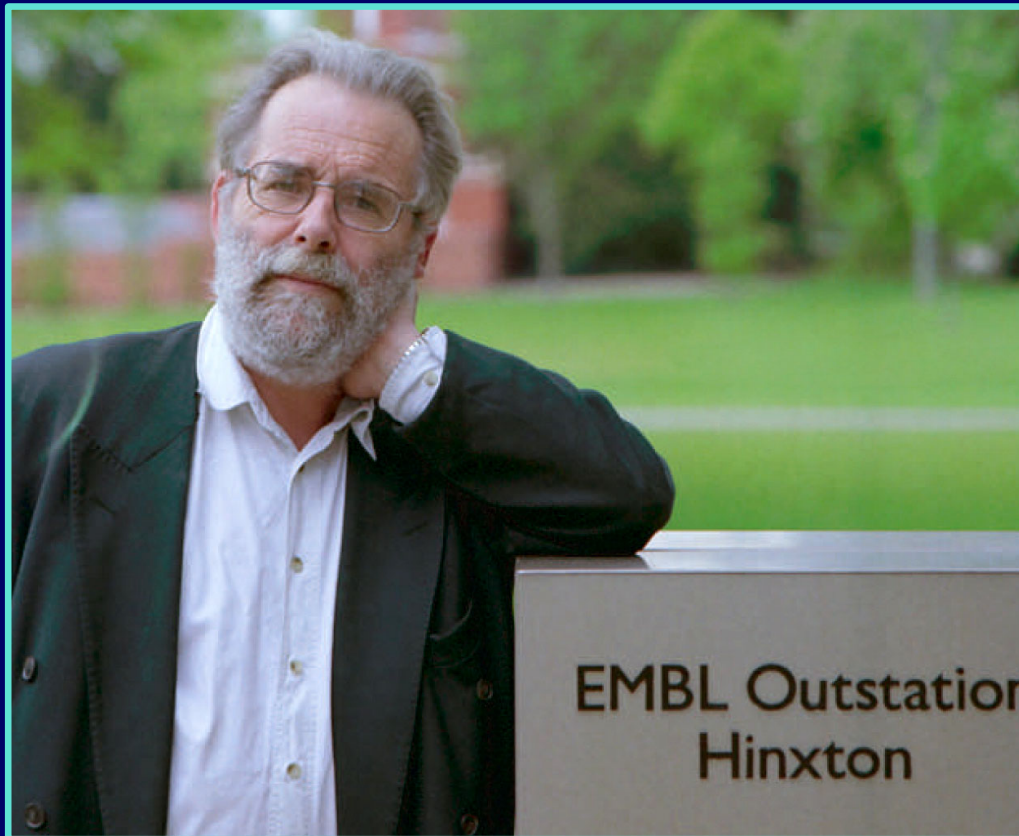
Fiscal Year 2024 Appropriations

Chamber	Agency	Fiscal Year 2024 Draft L-HHS Appropriation	Fiscal Year 2023 Enacted L-HHS Appropriation	2023-2024 Difference \$	2023-2024 Difference %
House	NIH	\$44 B	\$46.8 B	-\$2.8 B	-6%
	NHGRI	\$663.2 M	\$660.51 M	\$2.69 M	+0.4%
Senate	NIH	\$47.8 B	\$46.8 B	\$943 M	+2%
	NHGRI	\$663.2 M	\$660.51 M	\$2.69 M	+0.4%

Director's Report Outline

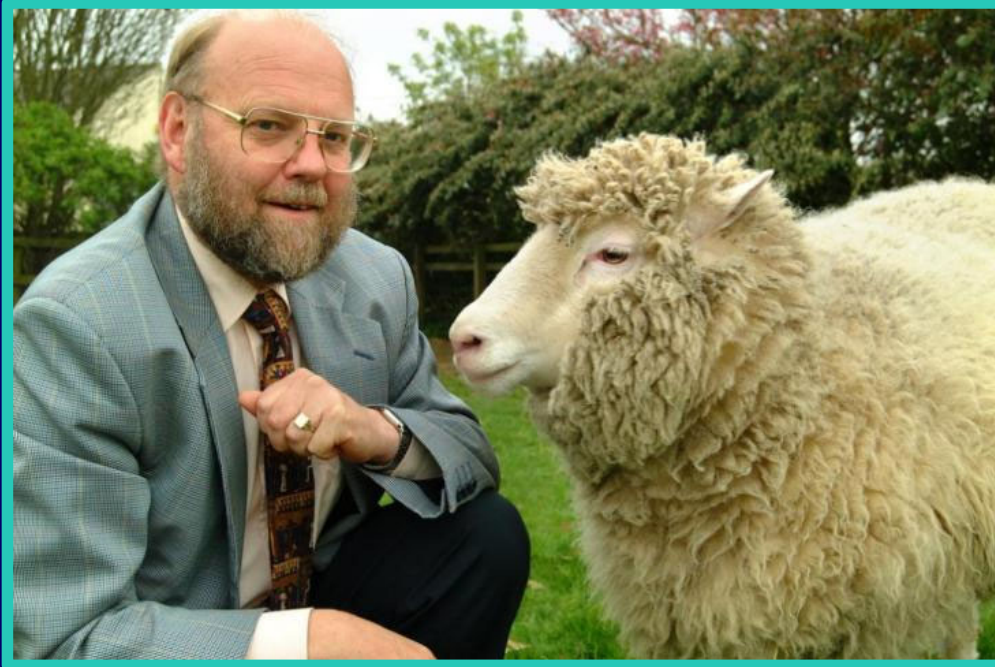
- I. General NHGRI Updates
- II. General NIH Updates
- III. General Genomics Updates**
- IV. NHGRI Extramural Research Program
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Mourning the Loss of Michael Ashburner



Michael Ashburner, Ph.D., Sc.D., F.R.S.

Mourning the Loss of Ian Wilmut



Ian Wilmut, Ph.D., O.B.E., F.R.S., F.Med.Sci., F.R.S.E.

Departure of Chief Executive Officer, American Society of Human Genetics



Mona Miller, M.P.P.



Double Helix: The Musical

DISCOVER WHAT IT
TRULY MEANS TO BE HUMAN

DOUBLE HELIX

A NEW MUSICAL

A NEW MUSICAL BY
**MADLINE
MYERS**

DIRECTED BY
**SCOTT
SCHWARTZ**

MAY 30-JUNE 18

Genomes in the “News...”

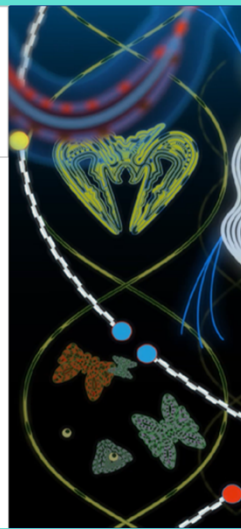


THE NEW YORKER

THE RACE TO SAVE THE WORLD'S DNA

*A scientific rescue mission aims to analyze every plant, animal,
and fungus before it's too late.*

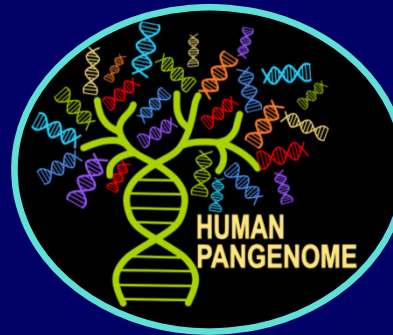
By Matthew Hutson
August 9, 2023



Director's Report Outline

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My Week in St. Louis



Human Genome Reference Program



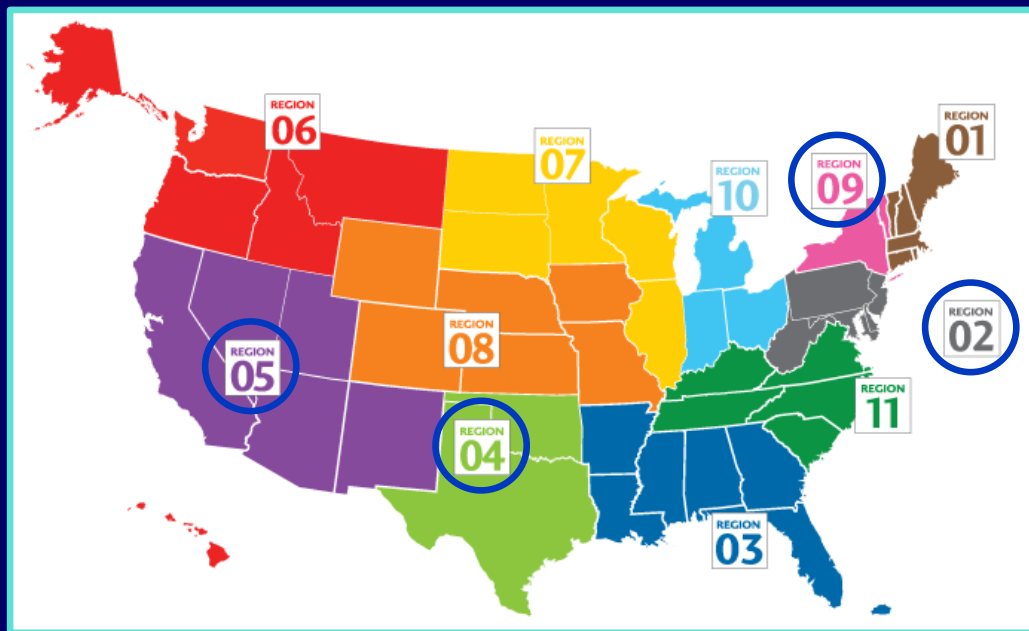
- Program renewal
- Applications received for two components
- Third component:

Open competition for Informatics Tools for the Pangenome

Applications due on November 1, 2023

Human Developmental Genotype-Tissue Expression (dGTEx)

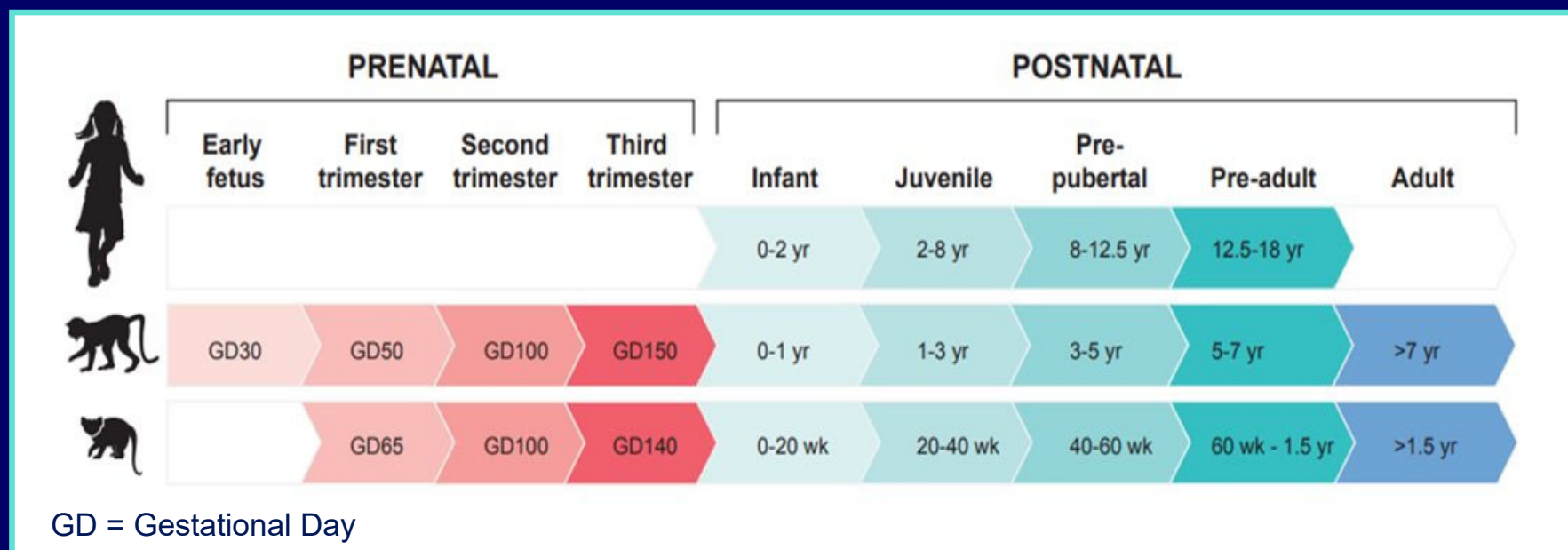
Organ Procurement Organizations (OPOs)



Donor Screening:

- 120 donors
- ~30 donors per age group
- 4 developmental age groups

Non-Human Primate Developmental Genotype-Tissue Expression (dGTEx)



Rhesus macaque sampling to date:

- 18 macaques across 7 developmental stages
- 766 samples from 54 distinct tissues



GREGoR Consortium

First In-Person GREGoR Meeting



Focused discussion of high-priority research themes

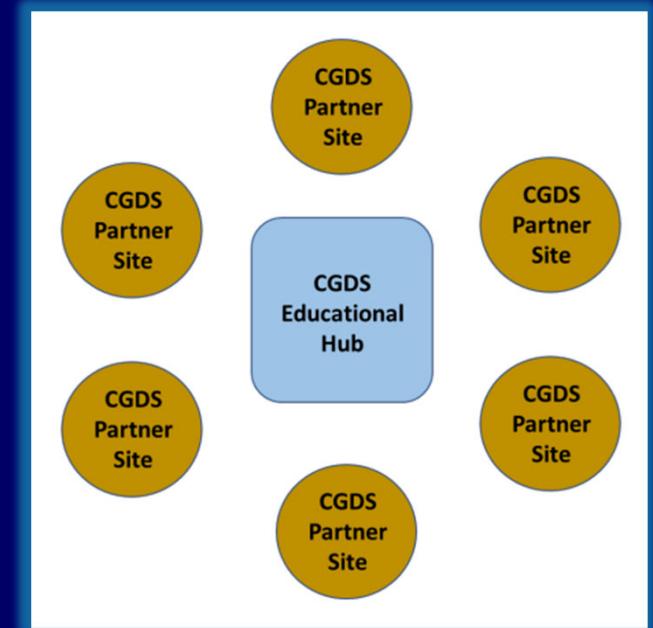
Educational Hub for Enhancing Diversity in Computational Genomics and Data Science

- "The Hub" will leverage AnVIL and *All of Us* platforms to increase access to educational and research opportunities in CGDS

Awarded to North Carolina Agricultural and Technical State University

- Funding opportunity:

Broadening Opportunities for Computational Genomics and Data Science Education



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

- AnVIL renewed for Phase II



- Addition of the AnVIL Clinical Resource (ACR)



JOHNS HOPKINS
UNIVERSITY



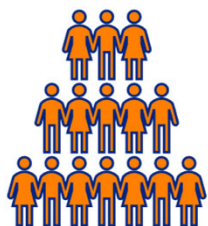
BROAD
INSTITUTE

VANDERBILT  UNIVERSITY
MEDICAL CENTER



Multi-Omics for Health and Disease

Disease Study Sites



COLUMBIA
UNIVERSITY

Krzysztof Kiryluk

UTHealth
The University of Texas
Health Science Center at Houston

Joseph McCormick

USC University of
Southern California

Lida Chatzi

UIC UNIVERSITY OF ILLINOIS
AT CHICAGO

Tanika Kelly

UC San Diego

Louise Laurent

UCSF University of California
San Francisco

Stephanie Christenson

'Omics Production Center



Washington
University in St. Louis

Gary Patti

Data Analysis & Coordinating Center



UMass Chan
MEDICAL SCHOOL

Zhiping Weng



National Human Genome
Research Institute



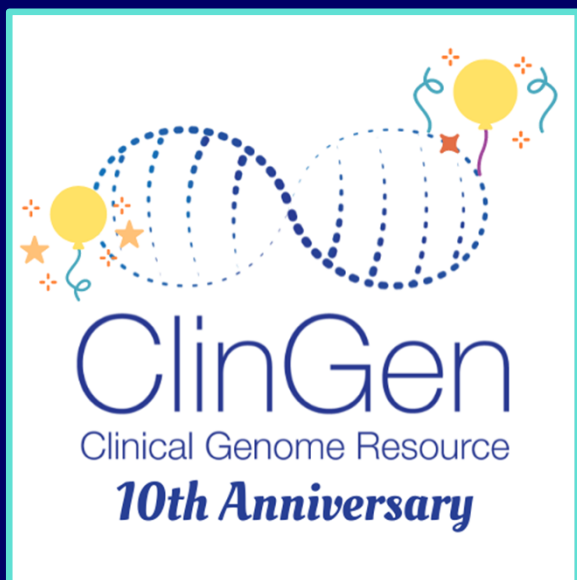
NATIONAL
CANCER
INSTITUTE



National Institute of
Environmental Health Sciences

Clinical Genome Resource (ClinGen)

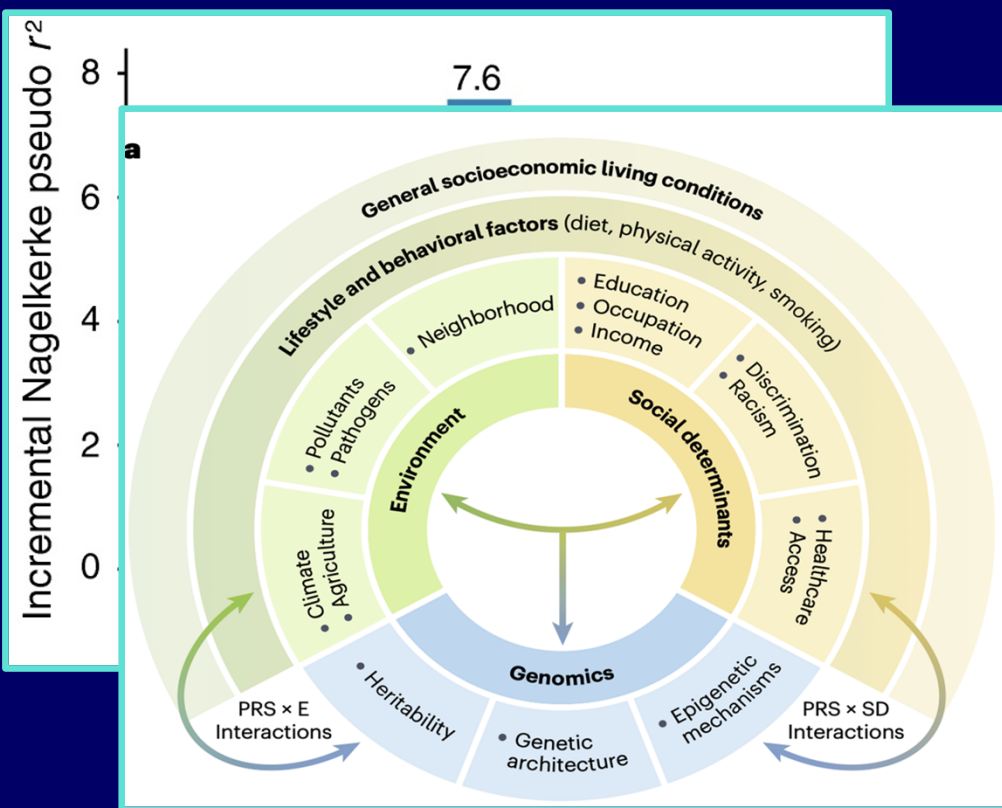
10th Anniversary



- **American Society of Human Genetics**
November 2, 2023
Lunch reception
- **American College of Medical Genetics & Genomics**
March 12-16, 2024
- **Curating the Clinical Genome**
May 9-10, 2024

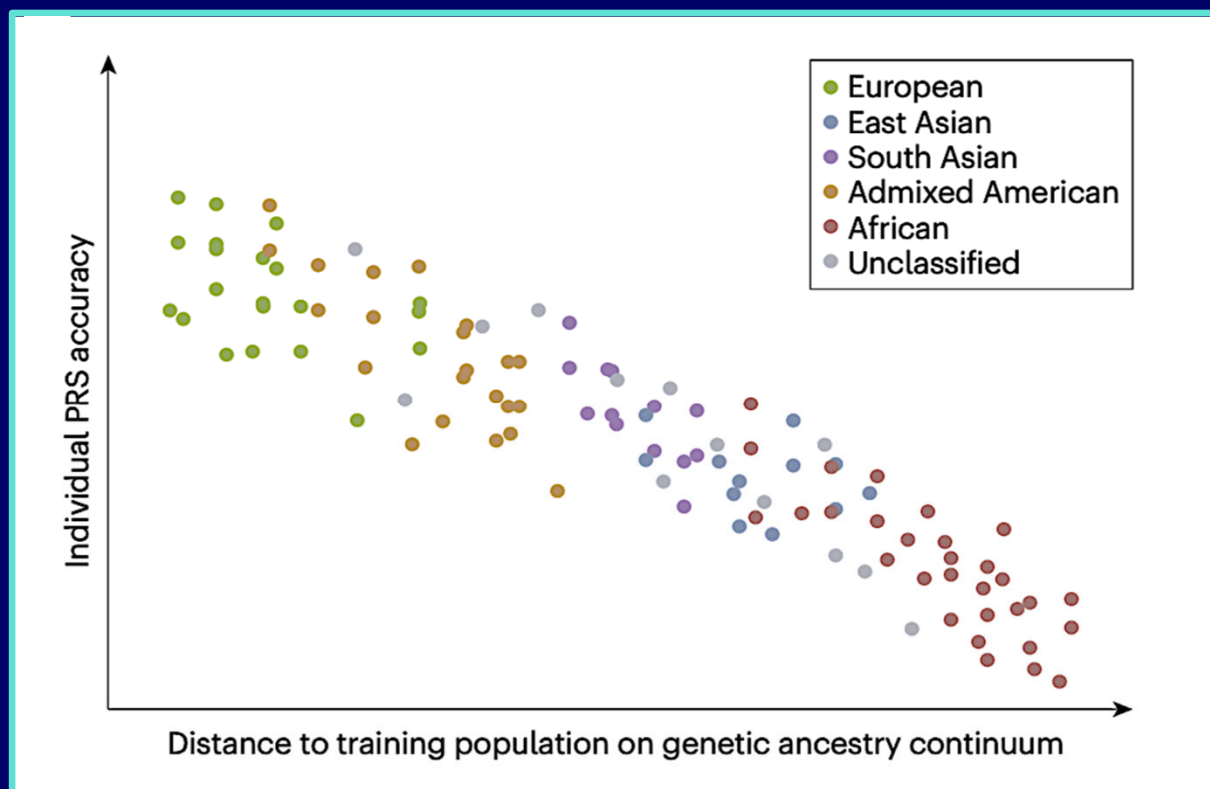
Stay tuned for event updates in the coming year!

Polygenic Risk Methods in Diverse Populations (PRIMED) Consortium



- Developing improved PRS models across multiple disease domains and populations
- Recent review: “Principles and methods for transferring polygenic risk scores across global populations”

Polygenic Risk Methods in Diverse Populations (PRIMED) Consortium

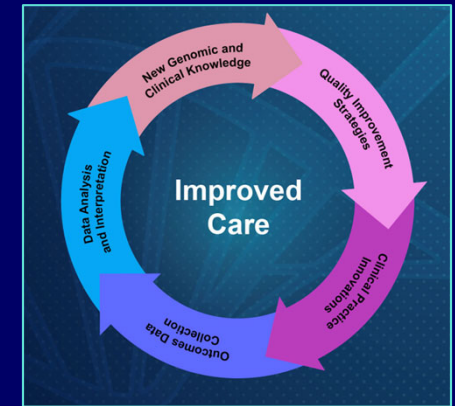


- Advancing PRS methods to recognize the continuous nature of genomic variation
- Pioneering Consortium secondary use of data in AnVIL



Genomics-Enabled Learning Health Systems (gLHS)

- Establish a Network to identify and create LHS tools and resources to improve adoption of genomics into clinical care
- New Funding Opportunity Announcements:



Department of Health and Human Services

Part 1. Overview Information

Funding Opportunity Title Network of Genomics-Enabled Learning Health

Department of Health and Human Services

Part 1. Overview Information

No
NU
Co

Funding Opportunity Title Network of Genomics-Enabled Learning Health Systems (gLHS) – Coordinating Center (U01 Clinical Trials Required)

Notice of Funding Opportunity (NOFO) Number RFA-HG-23-042

Companion Funding Opportunity RFA-HG-23-041, U01 Research Project (Cooperative Agreements)

**Applications due on
November 07, 2023**

Genomics and Health Funding Opportunities

Funding Opportunity Title

Investigator-Initiated Research in Genomics and Health Equity
(R01 Clinical Trial Optional)

Activity Code

R01 Research Project Grant

Announcement Type

New

Notice of Funding Opportunity (NOFO) Number

RFA-HG-23-017

Funding Opportunity Title

Investigator-Initiated Research in Genomics and Health Equity
(R21 Clinical Trial Optional)

Activity Code

R21 Exploratory/Developmental Research Grant

Announcement Type

New

Notice of Funding Opportunity (NOFO) Number

RFA-HG-23-018

- Support investigator-initiated research in genomics and health equity (R01 and R21)
- Research spanning across genomics research areas
- Collaboration with NIA, NCI, *All of Us*, and ORWH

**Applications due on
November 8, 2023**

Genomic Medicine XV: Genomics and Population Screening

November 8-9, 2023

Identify needs, opportunities, and challenges for using genomics in population screening

- Review current state of population genomic screening in U.S. and the available evidence of the impact of such screening
- Examine obstacles and opportunities for expanded population screening
- Identify research directions to inform expanded screening



NHGRI Funding Opportunity for Early Stage Investigators



**Supporting Talented Early Career
Researchers in Genomics**

RFA-HG-22-001



**Applications due on
February 27, 2024**

Genome Technology Program

Advances in Genomic Technology Development 2023 Hybrid Meeting



- Commercialization opportunities
- Engagement with NHGRI consortia
- Overviews of NHGRI programs

Small Business Program

Funding Opportunities



- **PAR-23-219: SBIR/STTR Commercialization Readiness Pilot Program Technical Assistance and Late-Stage Development**
- **NOT-HG-22-007: Methods Development for Genomic Studies of Genetic Variation, Function, and Disease**
- **NOT-HG-21-038: Genomics Education Interactive Digital Media Resources (SBIR/STTR)**

Ethical, Legal, and Social Implications (ELSI) Research Program



ELSIcon2024: The 6th ELSI Congress
Reimagining the Benefits of Genomic Science

SAVE THE DATE

June 10-12, 2024

Columbia University | NYC

**Abstract submission open from
September 5 to December 1, 2023**



Add the event to your calendar!



Diversity Action Plan

- **PAR-22-268, Initiative to Maximize Research Education in Genomics: Diversity Action Plan**
- **Support undergraduates and post-baccalaureates from diverse backgrounds**

**Next application due date
is November 15, 2023**

Diversity Research Supplements

- **PA-23-189: Research Supplements to Promote Diversity in Health-Related Research**
- **Enhance the diversity of the research workforce by recruiting, mentoring and supporting individuals from diverse backgrounds**

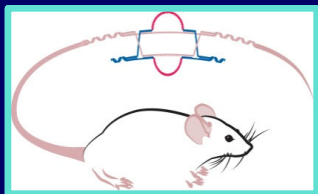
**Applications accepted throughout the
fiscal year until May 15**



Director's Report Outline

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Knockout Mouse Phenotyping Project (KOMP2)



- **International Mouse Phenotyping Consortium Annual Conference, July 2023**



- **Online Workshop: “Home Cage Monitoring in Behavioral Phenotyping”**
- **NIH Office for Data Science Strategy supplement to KOMP2**

Human Biomolecular Atlas Program (HuBMAP)



**Nature cross-journal collection
released July 20, 2023**

Brief Communication | [Open Access](#) | [Published: 19 July 2023](#)

Organ Mapping Antibody Panels: a community

re Article | [Open Access](#) | [Published: 19 July 2023](#)

Organization of the human intestine at single-cell

re Article | [Open Access](#) | [Published: 19 July 2023](#)

John **An atlas of healthy and injured cell states and niches in**

the Article | [Open Access](#) | [Published: 19 July 2023](#)

Blue **A spatially resolved timeline of the human maternal-**

f Perspective | [Published: 19 July 2023](#)

**Advances and prospects for the Human BioMolecular
Atlas Program (HuBMAP)**

Sanjay Jain [✉](#), Liming Pei [✉](#), Jeffrey M. Spraggins [✉](#), Michael Angelo, James P. Carson, Nils Gehlenborg,



Somatic Mosaicism Across Human Tissues (SMaHT)



- Network kickoff meeting in May 2023
- Hackathon with GREGoR & HGSC

THE STRUCTURAL VARIANTS CRISING TIDE PRESENTS

Baylor College of Medicine HGSC
DNAnexus RICE
PacBio NANOPORE
GREGoR MaHT

**Pan-Structural Variation
Hackathon
in the Cloud!**

HYBRID SV PAN HACKATHON
TEXAS MEDICAL CENTER,
HOUSTON
AUG. 30 - SEPT. 1, 2023

A fantastical 3-day sojourn deep into challenging realms of uncharted bioinformatics!
Mapping SVs to public databases, Mendelian disease, somatic and mosaic variants, metagenomics, long read RNA, RSVs, & agricultural SVs!

Sign up at www.hgsc.bcm.edu/hackathon

NIH Cloud Platform Interoperability Effort (NCPI)



NCPI accepted as a 2024 GA4GH Driver Project

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Refresh of NHGRI Homepage for genome.gov

NIH National Human Genome Research Institute

ABOUT GENOMICS RESEARCH FUNDING RESEARCH AT NHGRI ABOUT HEALTH CAREERS TRAINING NEWS & EVENTS ABOUT NHGRI

...Begin your search here

UNDERSTANDING GENOMICS

The more you know, the better decisions you can make about your health.

Introduction to Genomics

The more you know, the better decisions you can make about your health.

EDUCATIONAL RESOURCES > Fact Sheets about Genomics

ABOUT GENOMICS > Policy Issues in Genomics

ABOUT GENOMICS > The Human Genome Project

A Complete Human Y Chromosome Sequence

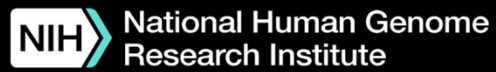


Virtual Reunion of the Human Genome Project 'G5'



NHGRI History of Genomics Program

ArchivesSpace



History of Genomics Archive

[Collections](#) [Digital Materials](#) [Unprocessed Materials](#) [Subjects](#) [Q](#)

About this site

This archival repository contains over 1 million pages of scanned and digitized items pertaining to the history of both the field of genomics and the crucial role that the National Human Genome Research Institute has played in the field's development. It contains the largest single repository of items from the milestone scientific endeavor, the publicly-funded Human Genome Project (1990 - 2003), including the personal collections of key former NHGRI leadership and staff.

NHGRI History of Genomics Program

Archival Spotlight: 1st Meeting of NHGRI Advisory Council

NATIONAL ADVISORY COUNCIL FOR HUMAN GENOME RESEARCH
SUMMARY OF MEETING¹

January 22, 1991

The National Advisory Council for Human Genome Research was convened for its first meeting at 10:00 A.M. on Tuesday, January 22, 1991, at the Hyatt Regency Hotel in Bethesda, Maryland. Dr. Elke Jordan, Deputy Director of the National Center for Human Genome Research (NCHGR) presided as chairman in the absence of Dr. James Watson, Director of the NCHGR. The members of the Council had met with staff of the Center from 8:00 to 10:00 in an orientation session to acquaint them with the Center and its programs and with the role of Advisory Councils in the peer review of research grants.

In accordance with the provisions of Public Law 92-463, the meeting was open to the public from 10:00 to 11:00 A.M. The meeting was closed to the public from 11:00 A.M. to 5:00 P.M. for the review, discussion, and evaluation of grant applications.

Council members present:

Dr. Francisco Ayala
Dr. David Botstein
Dr. K. Danner Clouser
Dr. Francis Collins
Dr. P. Michael Conneally*
Dr. Jerome R. Cox
Dr. Norman Davidson
Dr. Joe W. Gray
Dr. Kay Jamison
Dr. Shirley Tilghman
Dr. Donald A. B. Lindberg**

* Ad Hoc Consultant
** Ex Officio

Staff of the National Center for Human Genome Research attending, in addition to Dr. Jordan, were:

Midge Bajefsky, Grants Technical Assistant
Dr. David Benton, Assistant to the Director for Scientific Data Management
Erin Burgess, Budget Officer
Michelle Coleman, Committee Management Officer

¹For the record, it is noted that to avoid a conflict of interest, Council members absent themselves from the meeting when the Council discusses applications from their respective institutions or in which a conflict of interest may occur. Members are asked to sign a statement to this effect. This does not apply to "en bloc" actions.

ADJOURNMENT

The meeting adjourned at 4:45 p.m. on Tuesday, January 22, 1991.

I hereby certify that, to the best of my knowledge, the foregoing minutes and attachment are accurate and complete.

4/29/91
Date

Elke Jordan
Elke Jordan, Ph.D.
Executive Secretary
National Advisory Council for Human Genome Research

4/29/91
Date

James Watson
James Watson, Ph.D.
Chairman
National Advisory Council for Human Genome Research

¹These minutes will be formally considered by the Council at its next meeting, and any corrections or notations will be incorporated in the minutes of that meeting.

AGENDA

First Meeting of the
NATIONAL ADVISORY COUNCIL FOR HUMAN GENOME RESEARCH
Hyatt Regency Hotel, Bethesda, Maryland
Tuesday, January 22, 1991
10:00 A.M. to 5:00 P.M.

OPEN SESSION:
10:00 to 11:00 A.M.

CALL TO ORDER

DIRECTOR'S REPORT

ANNOUNCEMENTS AND ITEMS OF INTEREST

Future Meeting Dates
May 24, 1991
September 20, 1991

Budget
Special Presentations Tab:
• NIH Response to House and Senate Appropriations Report
• Inclusion of Women and Minorities in Study Populations
Other Announcements

REPORT ON THE RESEARCH CENTERS PROGRAM

REPORT ON THE REGULAR GRANTS PROGRAM, TRAINING, SPECIAL INITIATIVES

REPORT ON THE MAPPING INITIATIVE

REPORT ON THE ETHICAL, LEGAL, AND SOCIAL IMPLICATIONS PROGRAM

CONFLICT OF INTEREST

CLOSED SESSION:
11:00 to 5:00

WELCOME TO NIH (1:30)

CONSIDERATION OF NCHGR APPLICATIONS

ADJOURNMENT

Dr. Jordan

Dr. Watson

Dr. Jordan

Dr. Jordan

Dr. Peterson

Dr. Graham

Dr. Guyer

Dr. Juengst

Dr. Juengst

Dr. Jordan

Dr. Jordan

Dr. Raub

Raub

2023 Virtual Short Course in Genomics




New Gene-Environment Interactions Lesson Plans



- **NHGRI collaboration with National Science Teaching Association**
- **Teacher training webinars
68 teacher participants**
- **2022 Lesson Plans statistics:
10K clicks
1.6M impressions
940,000 students served**

Healthcare Professionals' Genomics Education Week



Direct-to-Consumer Genetic Testing: Updates and Cases

Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC-PEG)
Direct-to-Consumer Genetic Testing Project Group
June 5, 2023

2023 Healthcare Professionals' Genomics Education Week

National Human Genome Research Institute

7 videos 213 views Last updated on Jul 12, 2023

NHGRI and its partners organize a social media campaign from June 5 to June 9, 2023, that focuses on healthcare provider genomics education. This initiative ...More

▶ Play all

↻ Shuffle

YouTube Playlist

New educational resources:

- **Nursing Genomics Frequently Asked Questions**
- **Pharmacogenomics Learning Series**
- **Patient Module: Autism Spectrum Disorder and Vaccines**

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Retirement of Intramural Investigator



William Pavan, Ph.D.

New Deputy Scientific Directors, NHGRI Intramural Research Program



**Paul Liu,
Ph.D.**

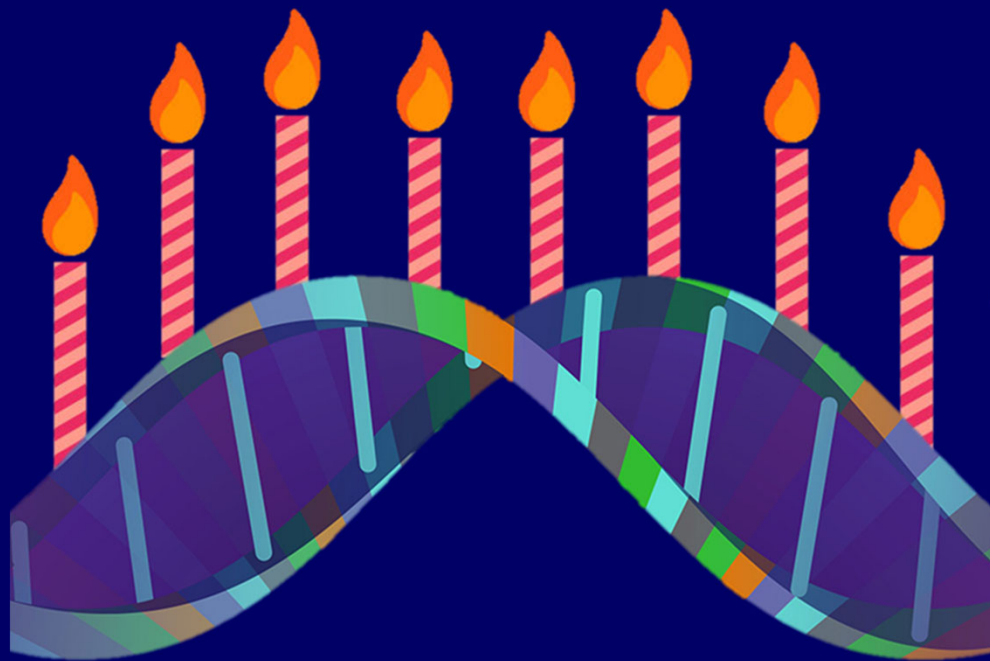


**Sara Chandros
Hull, Ph.D.**



**Shawn Burgess,
Ph.D.**

30th Anniversary of the NHGRI Intramural Research Program



Todd Golub, M.D.

—
Jeffrey M. Trent Lectureship in
Cancer Research Series

November 13, 2023 2-3 p.m. ET

New York Academy of Medicine Medal for Distinguished Contributions in Biomedical Science



Charles Rotimi, Ph.D.



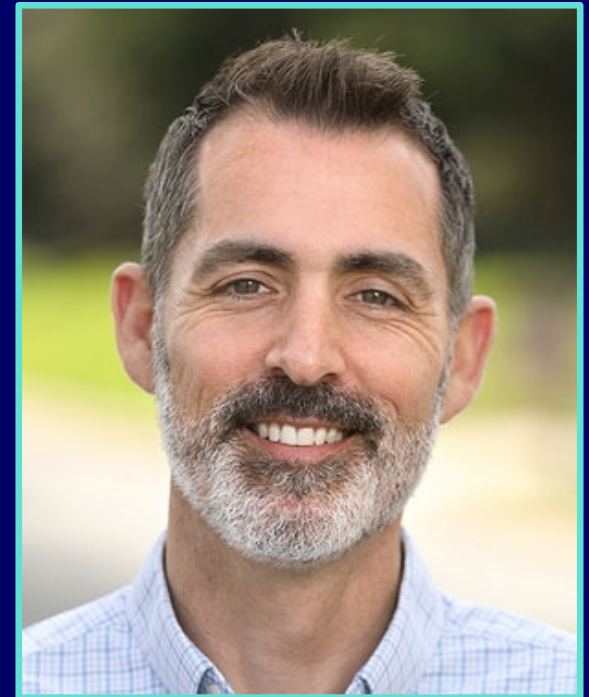
2024 Breakthrough Prize in Life Sciences



**Ellen Sidransky,
M.D.**



**Thomas Gasser,
M.D., Ph.D.**



**Andrew
Singleton, Ph.D.**

Genomic Science and Health Equity Postdoctoral Fellowship

Training to use genetic, genomic,
and pharmacogenomic approaches
to advance minority health and
health equity



**Lauren Edgar, DNP,
MSN-Ed., RN, FNP**

**Next year's fellowship
application available soon**

NHGRI Intramural Research Highlights



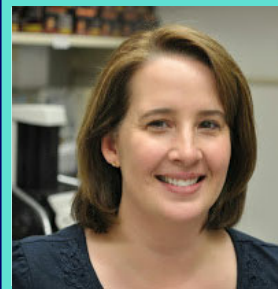
Leukemia

Characterization of leukemia progression in the Cbfb-MYH11 knockin mice by single cell RNA sequencing



PRENATAL DIAGNOSIS

Patients' perspectives on prenatal screening results that suggest maternal cancer: A qualitative analysis



AJHG

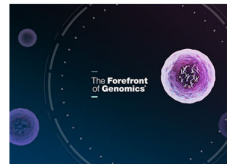
Haplotype-based analysis resolves missing heritability in oculocutaneous albinism type 1B

'One-Stop-Shop' to Stay Connected

genome.gov/stayconnected

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!



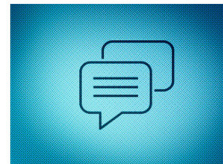
Genome.gov >

Explore the official website of the National Human Genome Research Institute.



The Genomics Landscape >

Subscribe to Dr. Eric Green's monthly newsletter summarizing NHGRI and genomics highlights.



Dr. Eric Green on Twitter >

Follow Dr. Eric Green on Twitter @NHGRI_Director.



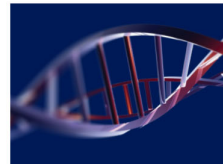
2020 NHGRI Strategic Vision >

Read NHGRI's strategic vision for improving human health at The Forefront of Genomics.



NHGRI Brochure >

Learn more about NHGRI and the institute's history, core principles and values, research portfolio, and various other programs.



Talking Glossary of Genetic and Genomic Terms >

Gain a better understanding of hundreds of genetics and genomics terms and concepts using this educational NHGRI resource.



Building a Diverse Genomics Workforce >

Read about NHGRI's plans to increase the number of individuals from diverse backgrounds in the genomics workforce.



GenomeTV >

Watch GenomeTV, a vast collection of NHGRI videos, including live event coverage, scientific seminars, and educational films.



NHGRI's Oral History Collection >

View video interviews of those with perspectives and experiences in genomics programs and other NHGRI endeavors.

Among the Best of Eric Green

Videos

- Scale of the Human Genome (with animations) - Eric Green
December 2, 2019
- GM XII: 2020 NHGRI Strategic Vision Genomics 2020 Strategic Planning Process
February 9, 2021
- Human Genome Project 30th Anniversary Selfie: Part 1
October 1, 2020
- Webinar by MOH&P: Dr. Eric Green On The Human Genome Project
March 25, 2021

Podcasts

- ERIC GREEN PODCAST: APRIL 28, 2020
Eric Green on the Complete Human Genome Project >
- AMERICAN HISTORY PODCAST: MARCH 26, 2021
The Butterfly Effect >
- TRANSFORMING WITH HEALTH EQUATION: DECEMBER 15, 2020
Genomics: Rewriting Our Health >
- GENETICS UNCOVERED: OCTOBER 26, 2020
The Past, Present and Future of the Human Genome Project >

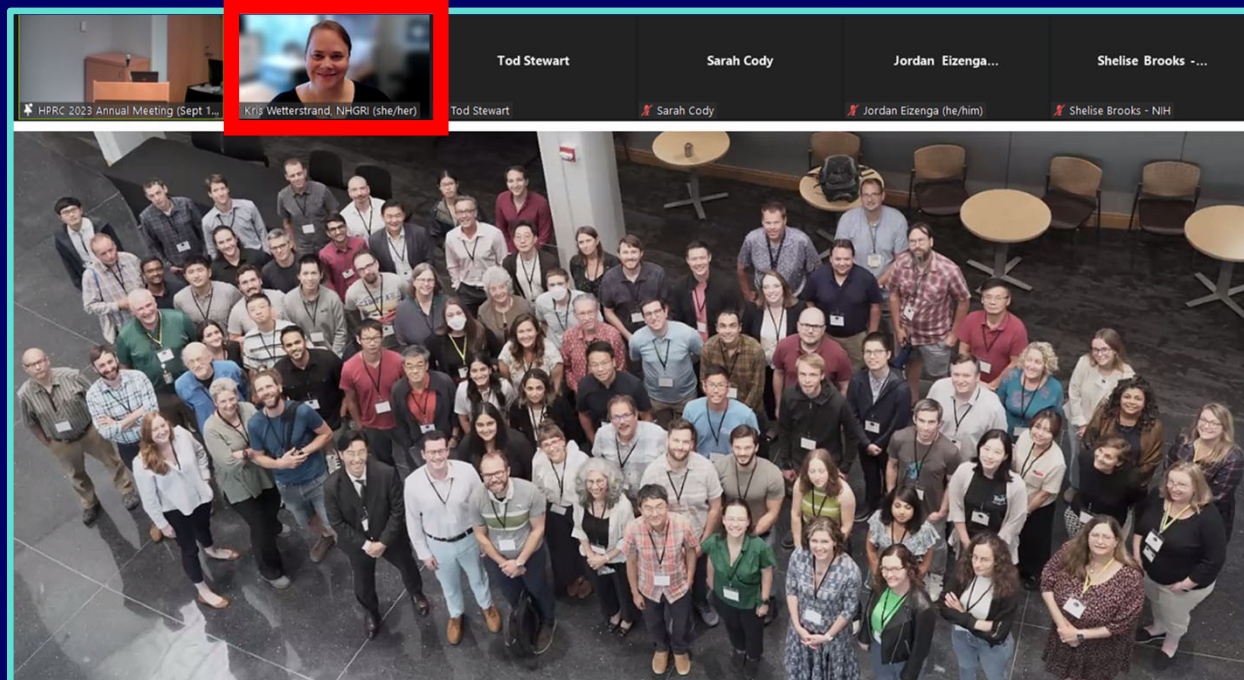
Op-Eds/Commentaries

- Completing the Human Genome Sequence (Again)
Scientific American, March 31, 2022
- An Interim Action Plan for Studying the Human Genome
The NIH, September 16, 2021
- A Vision for the Next Decade of Human Genomics Research
Scientific American, October 26, 2020



National Human Genome
Research Institute

Thanks!



Special Thanks!



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of **Genomics**[®]