Director’s Report

National Advisory Council on Minority Health and Health Disparities

September 8, 2017

Eliseo J. Pérez-Stable, MD
Director, NIMHD
NIH Updates
The President invited

Francis S. Collins, MD, PhD to remain in the position of NIH Director, after he had been serving as a holdover appointment since January 18.

I am truly grateful for the President’s vote of confidence, and I will be honored to continue to serve this noble institution.

- Dr. Francis S. Collins
National Center for Complementary and Integrative Health Director to Retire

- **Josie Briggs, MD**, will be retiring in October from the directorship of the National Center for Complementary and Integrative Health.
- She is moving on to become the Editor-in-Chief of the *Journal of the American Society of Nephrology*.
- She led the Precision Medicine Initiative (now the All of Us Research Program) in 2015.

She has been an outstanding director, a trusted advisor to me and others at NIH, and a good friend. She is among the most accomplished leaders at NIH and is universally respected both within and outside the agency. - Francis S. Collins, MD, PhD, Director, National Institutes of
Norman E. “Ned” Sharpless, MD, was appointed the new director of the NCI.

- Former Director of the Lineberger (NCI-designated) Comprehensive Cancer Center and Distinguished Professor in Cancer Research at the University of North Carolina.
- Undergraduate and medical degrees from the University of North Carolina at Chapel Hill; internal medicine residency at Massachusetts General Hospital and a hematology/oncology fellowship at Dana-Farber/Partners Cancer Care
- Led a highly productive research group studying the cell cycle and its role in cancer and aging.
- Member of the NIA Advisory Council at time of appointment

I’ve known Dr. Sharpless professionally for many years as an outstanding scientist, clinician, and administrator, and we are very fortunate to have him join the NIH leadership team.

- Francis S. Collins, MD, PhD, Director, National Institutes of Health
U.S. Surgeon General Sworn In September 5, 2017

Jerome M. Adams, MD, MPH has been sworn in as the 20th U.S. Surgeon General.

Dr. Adams is transitioning from commissioner of the Indiana State Department of Health.

- Previously served as assistant professor of clinical anesthesia at Indiana University School of Medicine and staff anesthesiologist and chair of the Pharmacy and Therapeutics Committee at Eskenazi Health.
- Received his medical degree at the Indiana University School of Medicine and his MPH degree at the University of California, Berkley.
- Worked under Tom Cech, PhD, who received the Nobel Prize in Chemistry in 1989.
HHS Minority Health Leader Appointed

Matthew Y.C. Lin, MD has been appointed Deputy Assistant Secretary for Minority Health and Director of the Office of Minority Health at the U.S. Department of Health and Human Services.

Dr. Lin is an orthopedic hand surgeon from San Marino, California, and has worked extensively with racial/ethnic populations.

- Received his medical degree from Taipei Medical University, Taiwan, in 1971.
- Received the Los Angeles Medical Association’s Leadership Award for Public Service and the California Hospital Association’s Leadership in Governance Award.
- Served as Mayor of San Marino for three terms.
Dr. Douglas R. Lowy and Dr. John T. Schiller will receive the 2017 Lasker-DeBakey Clinical Medical Research Award on September 15 in New York City.

The award is bestowed in recognition of their foundational discoveries that led to the development of the human papillomavirus (HPV) vaccines.

Because of their extraordinary efforts, we now have the potential to eliminate cervical cancer—the fourth most common cancer in women worldwide—and to greatly reduce other HPV-associated cancers.

- Francis S. Collins, MD, PhD, Director, National Institutes of Health
Next Generation Researchers Initiative

NIH proposed an approach to increase the number of early-stage and mid-career investigators to stabilize the career trajectory of scientists.

- Extending the pay line for applications from ESIs
- Provide more support for mid-career investigators
- Place greater emphasis on programs aimed at ESIs
- Tracking the impact of IC funding decisions for ESIs and mid-career investigators with fundable scores to ensure this strategy is effectively implemented
- Encourage the development and testing of metrics that can be used to assess the impact of NIH grant support on scientific progress
- Monitor gender and race/ethnic diversity of ESIs funded

https://grants.nih.gov/ngri.htm
Awardees:

✓ FiftyForward
✓ National Alliance for Hispanic Health
✓ Delta Research and Educational Foundation
✓ San Francisco General Hospital Foundation
NIH Clinical Center Featured on Discovery Channel

Discovery documentary First in Human gives an up-close look at how advances in medicine are made at the NIH Clinical Center.

Three-part series airing in August portrays the hopes and setbacks of patients, doctors, and nurses seeking cures.

On August 10, Discovery will premiere First in Human, a three-part documentary on the National Institutes of Health Clinical Center, providing an unprecedented, first-hand look at the successes and setbacks that are a part of developing brand-new medicines that may ultimately benefit millions worldwide. Over a period of a year, film crews embedded within the hospital follow four patients who volunteered to participate in experimental treatments in the hopes they will help them, or others in the future. The series also follows the dedicated doctors and

https://www.cc.nih.gov/ocmr/firstinhuman/
11th Meeting of the Advisory Committee to the NIH Director

- June 8-9, 2017
- Topics covered include:
  - HeLa cells
  - Diversity in the Workforce
  - 21st Century Cures Implementation
  - Opioid Epidemic
  - Enhancing Stewardship: The Next Generation
- Next Meeting: December 14-15, 2017
Reforms and Initiatives
To enhance the stewardship of research involving human subjects, NIH is implementing the following:

**All Research Involving Human Participants**
- New forms to collect human subjects information
- Use of a single Institutional Review Board (IRB) for multi-site studies
- Am J Bioethics 2017; 17:34-64

**Research that Meets the NIH Definition of a Clinical Trial**
- Training in Good Clinical Practice (GCP)
- Clinical trial-specific Funding Opportunity Announcements (FOAs)
- New review criteria
- Expanded registration and results reporting in ClinicalTrials.gov
NIH Initiatives to Enhance Clinical Trial Stewardship

Enhancing Clinical Trial Stewardship at NIH

- Accountability
- Transparency
- Efficiency
- Dissemination

Learn more at https://grants.nih.gov/policy/clinical-trials.htm
NIH Might Consider Your Human Subjects Research to be a Clinical Trial

Does your study…

✓ Involve one or more human subjects?
✓ Involve one or more interventions?
✓ Prospectively assign human subject(s) to intervention(s)?
✓ Have a health-related biomedical or behavioral outcome?

If “yes” to ALL of these questions, your study is considered a clinical trial

Unsure how to answer the questions? We have a tool that can help! [https://grants.nih.gov/ct-decision/](https://grants.nih.gov/ct-decision/)
Identifying Whether NIH Considers Your Study to be a Clinical Trial is Crucial

It impacts whether you need to:

- Respond to a clinical trial-specific FOA
- Address additional review criteria specific for clinical trials
- Register and report your clinical trial in ClinicalTrials.gov
# Minority Enrollment in NIH Clinical Research

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<td>28.1%</td>
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<tr>
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<td>70.1%</td>
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NIMHD Updates
Congressional Hearings

On June 22, 2017, the Senate Appropriations Subcommittee on Labor, HHS, and Education, held a hearing on the NIH FY2018 President’s Budget. NIH Director Francis Collins testified, accompanied by NIAID Director Dr. Anthony Fauci, NHLBI Director Dr. Gary Gibbons, NIMH Director Dr. Joshua Gordon, NIA Director Dr. Richard Hodes, NCI Acting Director Dr. Douglas Lowy, and NIDA Director Dr. Nora Volkow.

Ongoing communications between NIH leadership and congressional staff with expected September decisions on Fiscal 2018
On September 20 - During the Congressional Black Caucus Foundation 47th Annual Legislative Conference, Dr. Pérez-Stable will serve as a panelist for the Health and Wellness Luncheon: “African American Participation in Clinical Trials: Challenging the Gold Standard.”

David Satcher, MD, PhD will present the Keynote address.
Engaging Our Stakeholders

On June 13: Dr. Joan Wasserman, Director of the Office of Extramural Research Administration, and Dr. Patricia Grady, Director of the National Institute of Nursing Research, briefed staff to Representatives Henry Cuellar (D-TX) and Filemon Vela (D-TX), as well as a delegation of Texas institutions on STEM and health programs for Hispanic-serving institutions.

On June 14: Dr. Pérez-Stable gave welcoming remarks at the “SKCC on Capitol Hill Day” breakfast alongside Thomas Jefferson University Sidney Kimmel Cancer Center leadership; he discussed health disparities, the diagnosis and treatment of cancer, and the importance of inclusion in clinical trials at the Longworth House Office Building in D.C.
FY 2017 Funding Distribution
$288M
Recent Presentations

June 14
Alumni and Friends Reception
National Medical Fellowships
Washington, D.C.

June 16
Minority Faculty Leadership Seminar
Association of American Medical Colleges
Washington, D.C.

June 19
African American Health Equity Summit
Susan G. Komen Foundation Honoring Henrietta Lacks
Washington, D.C.

June 22
Moving Towards Elimination of CV Disparities Through Community-Engaged Research, NHLBI
Bethesda, Md.

June 26
Metrics Toolkit Launch
Urban Universities for Health Webinar

June 27
How Do Race and Wealth Affect Your Health?
My Personal Story in Science
NIH Intramural Training Summer Lecture
Bethesda, Md.

July 14
Achieving Health Equity Through Collaboration
FHI 360 and the Robert Wood Johnson Foundation
Washington, D.C.

July 29
115th Annual Convention
National Medical Association

August 26
Health Emphasis Summit
Metropolitan Seventh Day Adventist Church
Hyattsville, Md.
Media Outreach with NIDDK’s Healthy Moments Radio Broadcast

Four Segments to air on nationally syndicated radio stations starting September 4 (e.g., Radio One Stations and others)

- Understanding Health Disparities
- Place Matters
- Language Access and Patient-Provider Communication
- Minority Participation in Clinical Trials (also en Español online @NIDDK)
Scientific Workshops with NIMHD Participation

Summit, The Science of Caregiving: Bringing Voices Together
Lead: National Institute of Nursing Research, August 7-8, 2017
NIMHD Contacts: Adelaida Rosario, PhD, Nancy Jones, PhD

The Human Microbiome: Emerging Themes at the Horizon of the 21st Century
Lead: Trans-NIH Microbiome Working Group, August 16-18, 2017
NIMHD Contact: Michael Sayre, PhD

Training the Next Generation of Implementation Researchers for Health Equity
Lead: National Heart, Lung and Blood Institute, August 30-31, 2017
NIMHD Contact: Xinzhi Zhang PhD
NIMHD INSPRD Lecture Series

**Purpose:** Incorporating Science in Programming to Reduce Disparities (INSPRD) lecture series is designed to share scientific program information, stimulate novel research ideas and facilitate dialogue to foster new collaborations.

**Recent Speakers:**

- **Nora D. Volkow, MD,** Director, National Institute on Drug Abuse Director – NIH’s Efforts to Reduce the Opioid Epidemic and **Corinde E. Wiers, PhD,** NIDA Post Doctoral Fellow – Association of Genetic Ancestry with Striatal Dopamine D2/D3 Receptor Availability, July 20, 2017
- **Darien Weatherspoon, DDS, MPH,** Program Director, Health Disparity Research Program, NIDCR – NIDCR Oral Health Disparities Research Consortium, August 24, 2017
NIMHD Intramural Seminar Series

Monthly IRP seminar series provides a forum for exchange and dissemination of research in progress

Jung Byun, PhD, Staff Scientist - Exploring Cancer Health Disparities through Molecular and Genomic Profiling of Diverse Cohorts, June 13

Erik Rodriquez, PhD, NHLBI Staff Scientist - Minority Health and Health Disparities and Unhealthy Behaviors, July 11

Sherine El-Toukhy, PhD, NHLBI IRTA Postdoctoral Fellow - Patient-Provider Communication: A Disparities Perspective on Health Communication, July 18
Fostering the Next Generation of Researchers
NIH Summer Poster Day, August 10, 2017

Kaylan Williams, Yale University, presented The association between physician uncertainty and drug treatment decision making: A quantitative and qualitative analysis.” Mentor: Dr. Regina James

Abel Amare, George Washington University, presented Systemic Inflammation Score (SIS) as a predictor for Sagittal Abdominal Diameter (SAD) in non diabetics.” Mentor: Dr. Sharon Jackson

Michael Ramsey, OITE GSOAR Scholar, Jackson State University, presented "Examining the intersectionality of social determinants of health and smoking behaviors among U.S. black adults.” Mentor: Dr. Kelvin Choi

Catherine Trad, New York University, presented Exploring the distribution of tobacco free policies in a national sample of post secondary educational institutions. Mentor: Dr. Kelvin Choi

Myriam Alcantar Rama, University of Mexico presented on A literature review of chronic stress, allostatic load, unhealthy behaviors and depression among racial/ethnic minorities. Mentor: Dr. Erik Rodriguez in the lab of Dr. Eliseo J. Pérez Stable
Fostering the Next Generation of Researchers

2017 Health Disparities Research Institute

August 14th - 18th, 2017
Fostering the Next Generation of Researchers
New Research Fellows and Scholars

Jennifer Bayly, BS
Rutgers University, NIH Medical Research Scholars Program, DIR Social and Behavioral Group
Mentor: Dr. Kelvin Choi

Sophie Claudel, BS
Wake Forest University, NIH Medical Research Scholars Program
Mentor: Dr. Tiffany Powell-Wiley

Fernando Vasquez, BS
Dartmouth University, NIH Medical Research Scholars Program
Mentor: Dr. Andrew Mannes

Jean Damascene Kabakambira, MD
Kigali University Teaching Hospital, Rwanda
NIDDK-NIMHD Fellowship Collaboration with Rwanda Ministry of Health
Mentor: Dr. Anne E. Sumner

Rada Dahger, PhD, MPH
American Association for the Advancement of Science, Science & Technology Policy Fellowship Program
Mentor: Dr. Regina James
On July 3 and 5, a group of American Indian high school students from across the country visited NIH. They were selected as part of the AAIP, which is aimed at introducing biomedical research to high school students from American Indian and Alaska Native backgrounds.

The event is coordinated annually by DeLoris Hunter, PhD, NIMHD Program Officer.
NIMHD Recognized with NIH Director’s Awards on September 1, 2017

Awardees include Dr. Courtney Aklin, Dr. Joyce Hunter, Ms. Priscilla Grant, Dr. Jennifer Alvidrez, Dr. Derrick Tabor, Dr. Rina Das, Phuong-Tu Le, and Dr. Michael Sayre
Scientific Program Updates

• New RCMI FOA published
• American Journal of Public Health Supplement on Science Visioning
• Research in Minority Health and Health Disparities Book update
• Considerations to develop a K-award program in FY 2018
• Re-establish BUILD/NRMN connection within NIH
Trans-NIH MH/HD Definitions, Coding and Strategic Plan

- Trans-NIH Working Groups
  - Definitions of MH/HD
  - Coding
  - Communications
  - Strategic Planning

- Science Visioning
  - Working Groups
  - Scientific Workshops
  - Recommendations

- Trans-NIH MH & HD Portfolio Analysis

- Trans-NIH Committee to draft Framework for Strategic Plan
Coding Categories Generated for 2015 Portfolio Analysis

- **Scientific Research on Minority Health**
- **Scientific Research on Health Disparities**
- **Inclusion** of diverse participants in clinical studies using the 25% target but not designed to generate specific knowledge regarding populations
- **Workforce Diversity**: training in biomedical research for students and investigators from diverse populations
- **Capacity Building to Conduct Research**: supports biomedical research at institutions serving disparity populations or to conduct MH/HD research
- **Outreach, Collaboration and Dissemination**
Overview of Trans-NIH Minority Health and Health Disparities Strategic Plan

**Scientific Research Goals**
1. Minority Health
2. Etiology of HD
3. HD Interventions
4. Measures and Metrics

**Research-Sustaining Activity Goals**
5. Training: Diversity and MH & HD Workforce
6. Capacity Building to conduct research
7. Inclusion of Minorities in Clinical Studies

**Outreach, Collaboration and Dissemination Goals**
8. Community Engagement, Dissemination and Implementation
9. Research Community Building
NIMHD Staff News
New Staff

Julia Cen Chen
PhD Candidate in Public Health, Intramural Research Training Award Fellow, Division of Intramural Research, Social and Behavioral Group

Ranae Harris
New Administrative Officer in Office of Administrative Management

Bambi Jewett, RN, BSN
Research Nurse, Division of Intramural Research, Social and Behavioral Group

Shelly Pollard, MBA
Public Affairs Specialist in Office of Communications and Public Liaison
Staff Departures

Chris Spates
Retired

Jessica Escobedo, PhD
Accepted position as Director of Science Policy at a consulting firm

Sherine El-Toukhy, PhD
IRTA Postdoc Fellow
Transferring from NIMHD Intramural to Dr. Perez-Stable's lab at NHLBI

Melanie Sabado, PhD
Coleman Research Innovation Award Recipient
Accepted a Tenure-Track Assistant Professorship at CSU, Los Angeles

Steven Newell, PhD
Accepted position as Senior Legislative Analyst at the American Psychological Association
Scientific Advances
Medical Students Intent to Work with Underserved

- AAMC graduate survey, 2010-12, N=40,836
- Predictors of intent to work in underserved communities by demographics, specialty plans, and debt burden
  - Women OR = 1.59
  - Primary Care = 1.65
  - URMM = 2.79 (other minorities = 0.99)
  - Adjusted for loan burden (63% URM had >200k)

Medical Students in Alpha Omega Alpha

- 4655 US medical students from 123 medical schools applying to 12 residencies in 2014-15
- Membership in AOA by race/ethnicity
- 966 AOA members
- White: 72% vs 52%; Black: 1% vs 7.3%; Latino: 2.8% vs. 4.3%; Asian 17.4% vs. 27.2%
- Adjusted OR for AOA Status: Black 0.16, Latino 0.79, Asian 0.52
- Women, Gold Humanism, USMLE score, author of paper all increased odds

*Boatright D, et. al., JAMA Internal Medicine 2017;177: 659-665*
RCMAR: Promoting Diverse Investigators, 1997-2015

- NIA funded Centers to support methods and pilot studies by scholars in minority aging
- 266 funded scholars from 12 centers
- Latino 17%, Black 38%, AI/AN 9%, Asian 21%, Pacific Islander 1%
- 18 awarded NIH R01 or equivalent
- Most remain in research and leadership
- Long-term mentoring, community engagement, successful research sites

Harawa NT, J Clin Transl Sc 2017; doi:10.1017/cts.2016.23
Effects of Direct Mail Marketing on Tobacco Use Behavior: PATH Results

• First US national study to assess the impact of tobacco direct mail marketing on smoking behaviors

• Individuals of lower education and income, regardless of smoking status, were more likely than those of higher education and income to be exposed to this marketing strategy

• Exposure to this marketing strategy was associated with progression of smoking among nonsmokers and difficulty in smoking cessation among smokers

• Tobacco direct mail marketing could contribute to SES-related tobacco use disparities

Trends in Stroke Death Rates
Age-standardized Rates, 2000-2015, age ≥ 35 y
MMWR, September 6, 2017, 66: 1-7

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<tr>
<th>Ethnicity</th>
<th>2000</th>
<th>2015</th>
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<td>Whites</td>
<td>115.2</td>
<td>71.3</td>
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<tr>
<td>Blacks</td>
<td>161.1</td>
<td>102.0</td>
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<tr>
<td>Asians/PI</td>
<td>103.3</td>
<td>58.5</td>
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<tr>
<td>AI/AN</td>
<td>97.2</td>
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</tr>
<tr>
<td>Latinos</td>
<td>89.7</td>
<td>62.5</td>
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Racial/Ethnic Differences in Perception of Need for Mental Health Treatment

- 6 years of cross-sectional data from the National Survey of Drug Use (NSDUH, N = 232,723) to examine perceived need across levels of mental illness (none, mild, moderate, serious).

- Across all levels of mental illness, African American, Latino, and Asian respondents had lower levels of perceived need compared to Whites.

- Among those with serious mental illness, Asians were 23% less likely to perceive need and Latinos interviewed in Spanish were 33% less likely to perceive need compared to Whites.

- Perception of need for mental health treatment need to be taken into account in efforts to reduce mental health treatment disparities.

Substance Use Treatment and Criminal Justice Involvement in Facilitating HIV/HCV Testing and HIV Care

- Role of substance use treatment and criminal justice involvement in facilitating HIV and Hepatitis C testing and HIV care and initiation of ART among low SES, predominantly African American illicit drug users (N=2072).

- History of substance use treatment had higher levels of HCV and HIV testing, and among HIV-positive individuals, greater access to HIV care and treatment among HIV-positive individuals.

- History of incarceration or community supervision reported higher levels of testing, but not greater access care or treatment.

Potential New Strategy for Treating Sleep Disorders

• The conserved circadian clock gene Bmal1 is critical for sleep regulation; restoring Bmal1 expression in the brains of Bmal1-knockout mice did not rescue Bmal1-dependent sleep phenotypes.

• Sleep deficit phenotypes could be reproduced or rescued by knocking out or restoring Bmal1 exclusively in skeletal muscle, demonstrating that Bmal1 expression in skeletal muscle is both necessary and sufficient to regulate total sleep amount.

• May lead to a new potential target—skeletal muscle—for treating sleep disorders. The beneficial effects of exercise on sleep may be mediated by skeletal muscle circadian clocks.

Kidney Allocation System and Transplants Among Blacks and Latinos

• White ESRD patients more likely to receive transplants compared to Blacks and Latinos
• Evaluate new allocation system implemented in 2014
• In 179,071 transplant wait list events with calculated monthly transplants of 34,133
• Transplantation rates narrowed by 0.29% for Blacks and 0.24% for Latinos compared to Whites; both became non-significant

NIMHD R01MD010290, Patzer RE, PI
Grant Funding Opportunity
Announcements and Collaborations
# NIMHD-Sponsored Research FOAs

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<td>Clinical and Epidemiological Research on Chronic Disease in the Caribbean (R01)</td>
<td>11/16/2019</td>
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<td>Research Centers in Minority Institutions (U54)</td>
<td>12/16/2017</td>
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<td>Health Services Research on Minority Health and Health Disparities (R01, R21)</td>
<td>04/12/2019</td>
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<td>Social Epigenomics Research Focused on Minority Health and Health Disparities (R01, R21)</td>
<td>11/16/2018</td>
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<td>Surgical Disparities Research (R01, R21)</td>
<td>06/08/2019</td>
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# NIMHD-Sponsored Research FOAs

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<td>Addressing the Etiology of Health Disparities and Health Advantages Among Immigrant Populations (R01, R21)</td>
<td>01/08/2020</td>
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<td>Addressing Health Disparities through Effective Interventions Among Immigrant Populations (R01, R21)</td>
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<td>Mechanisms of Disparities in Chronic Liver Diseases and Cancer (R01, R21)</td>
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<td>Mechanisms and Consequences of Sleep Disparities in the U.S. (R01, R21)</td>
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Trans-NIH Research FOAs

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<td>Ethical, Legal, and Social Implications (ELSI) of Genomics Research Project Grant Program (R01, R21)</td>
<td>09/08/2020</td>
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<tr>
<td>Multidisciplinary Studies of HIV/AIDS and Aging (R01, R21)</td>
<td>09/08/2020</td>
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Future NIMHD FOAs

• Youth Violence Prevention Interventions that Incorporate Racism/Discrimination Prevention

• Simulation Modeling and Systems Science to Address Health Disparities

• Collaborative Research with Tribal Epidemiology Centers
Future NIMHD FOAs on HIV/AIDS

- Research on Pre-Exposure Prophylaxis (PrEP) to Prevent HIV in Health Disparity Populations
- Mechanisms of HIV-associated co-morbidities among health disparities populations
- Prevention and Treatment Research to Address HIV/AIDS Disparities in Women
Council Discussion and Questions