

# 48<sup>th</sup> Meeting of the NIH Advisory Committee on Research on Women's Health

Office of Research on Women's Health  
National Institutes of Health

**April 10, 2019**



**National Institutes of Health**  
*Office of Research on Women's Health*

[orwh.od.nih.gov](http://orwh.od.nih.gov) | [#SABV](https://twitter.com/NIH_ORWH) | [@NIH\\_ORWH](https://twitter.com/NIH_ORWH)



# Reminder:

## Special Government Employees (SGE)

- Subject to the same ethics rules that apply to government employees
- Rules located in “Standards of Ethical Conduct for Employees of the Executive Branch”
- ACRWH members required to disclose any real, potential, or apparent conflict(s) of interest
- ACRWH members may not engage in any lobbying activities while attending committee meetings of ACRWH sponsored events



# New SGE Procedures

- Electronic submission of Confidential Financial Disclosure Report (OGE form 450) via NIH Ethics Enterprise System (NEES)
- Beginning with 2019 ACRWH nominees
- Secured filing with eCommons account
- Conflict of Interest (COI) updates will be pre-populated with data from previously filed forms



# Introducing Our New Advisory Committee Members

## *Welcome aboard!*



**Roger Fillingim, Ph.D.**  
Professor and Director, Pain  
Research and Intervention  
Center of Excellence  
(PRICE), University of  
Florida College of Dentistry



**Stacie Geller, Ph.D.**  
G. William Arends Professor of  
Obstetrics and Gynecology  
Professor, Division of Academic  
Internal Medicine, University of  
Illinois College of Medicine



**Margaret "Peg" McCarthy, Ph.D.**  
Professor, Pharmacology  
Chair, Department of  
Pharmacology, University of  
Maryland Medical School



**Elena Rios, M.D., M.S.P.H.**  
President & CEO  
National Hispanic Medical  
Association



# 48<sup>th</sup> Meeting of the NIH Advisory Committee on Research on Women's Health

**Janine Austin Clayton, M.D.**

NIH Associate Director for Research on Women's Health  
Director, Office of Research on Women's Health  
National Institutes of Health

**Director's Report**

**April 10, 2019**



**National Institutes of Health**  
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[orwh.od.nih.gov](http://orwh.od.nih.gov) | [#SABV](https://twitter.com/SABV) | [@NIH\\_ORWH](https://twitter.com/NIH_ORWH)

# NIH welcomes new leadership



**Noni H. Byrnes, Ph.D.**

Director  
NIH Center for Scientific Review



**Joni Rutter, Ph.D.**

Deputy Director  
National Center for Advancing  
Translational Sciences



**Tara A. Schwetz, Ph.D.**

Associate Deputy Director  
National Institutes of Health



# Team ORWH

**It's #WearRedDay**

Heart disease is the leading  
cause of death.

*Know your risks.*

[NHLBI.NIH.GOV](http://NHLBI.NIH.GOV)  
[HEARTTRUTH.GOV](http://HEARTTRUTH.GOV)

February, 2019

# April is National Minority Health Month



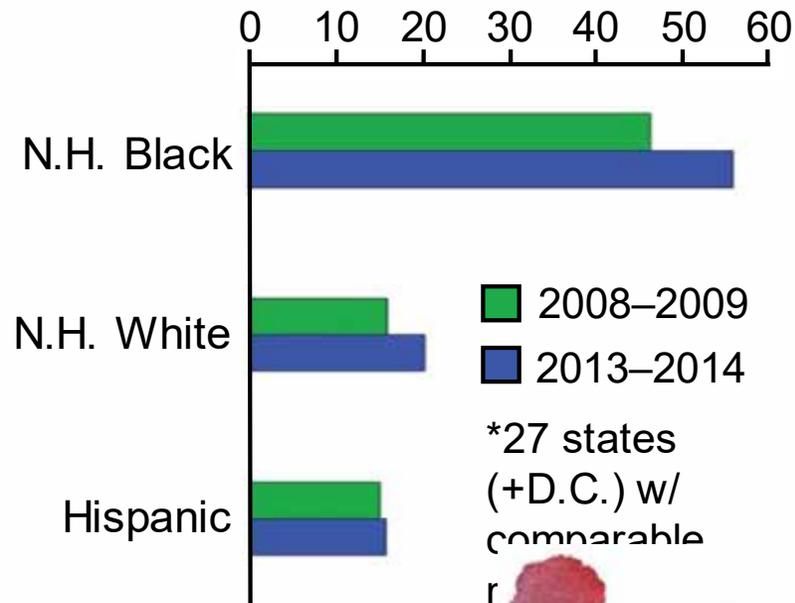
NATIONAL  
**MINORITY  
HEALTH  
MONTH**

Active & Healthy | April 2019



## MATERNAL MORTALITY

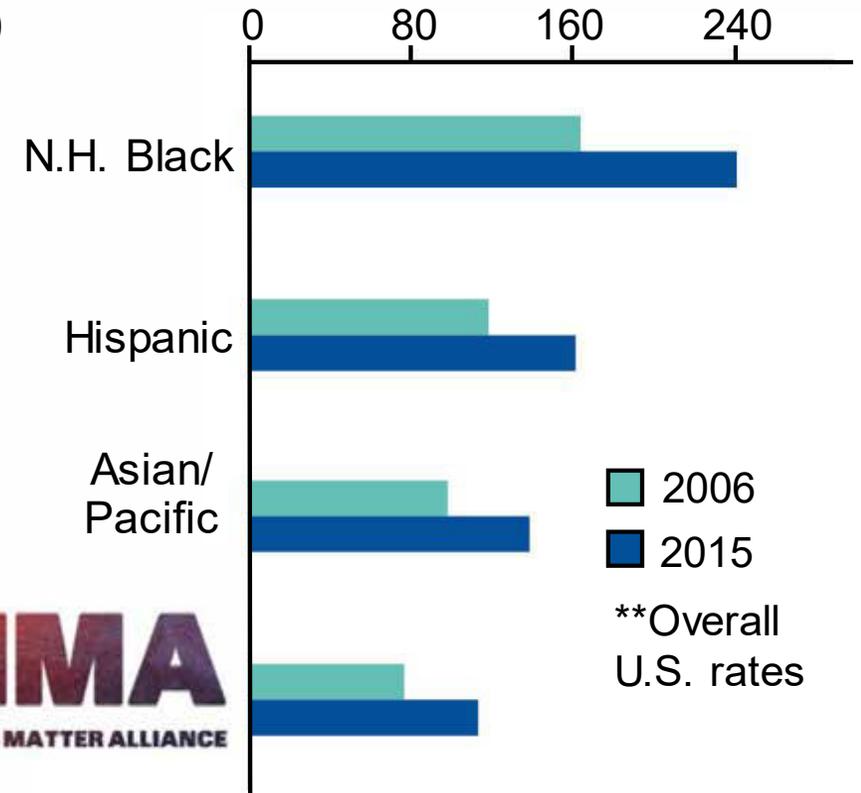
Maternal mortality rate  
per 100K live births\*



\*27 states  
(+D.C.) w/  
comparable

## MATERNAL MORBIDITY

Cases of severe maternal morbid.  
per 10K delivery hospitalizations\*\*



\*\*Overall  
U.S. rates



MacDorman et al. 2017.

*Obstet. Gynecol.* **129**:811-818. Fingar et al. 2018. *HCUP Statistical Brief# 243*: 1-21.



# NATIONAL MINORITY HEALTH MONTH

Active & Healthy | April 2019



The advocacy group ***Black Mamas Matter Alliance*** recognizes April 11-17 as **Black Maternal Health Week**



U.S. Department of  
Health and Human Services  
Office of Minority Health

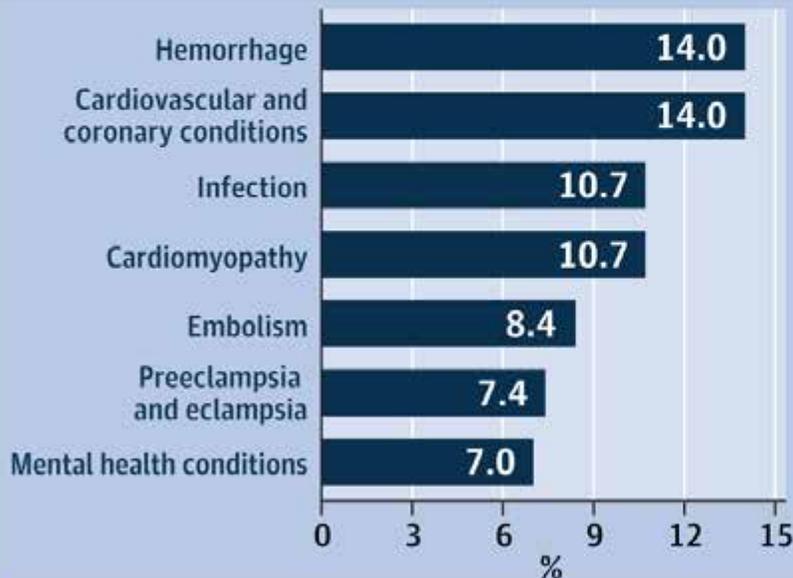


National Institutes of Health  
Office of Research on Women's Health

# Maternal morbidity & mortality (MMM) are associated with many causes & risk factors and are influenced by many social determinants of health

## Pregnancy-Related Deaths in the US

### Leading underlying causes of pregnancy-related deaths



### Preventability among pregnancy-related deaths

**70.0%**  
of pregnancy-related deaths from hemorrhage are preventable

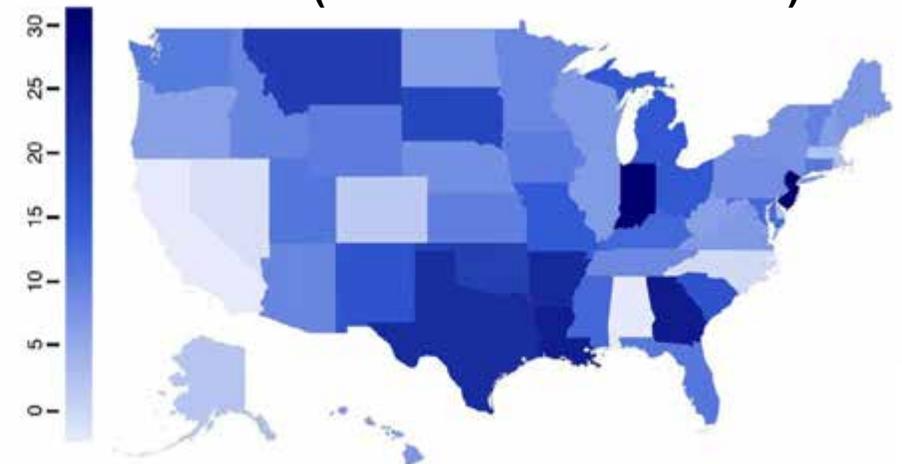
**68.2%**  
of pregnancy-related deaths from cardiovascular and coronary conditions are preventable

Source: Review to Action. Report from Nine Maternal Mortality Review Committees. <https://reviewtoaction.org>. Published 2018.

## Risk factors & influences

- Race
- Age
- Chronic conditions
- Physical fitness
- Education
- Access to care
- Location
- Racial bias

## Change in maternal mortality rate by state, 1997-2012 (deaths/100K live births)



# Not surprisingly, there is broad interest in MMM across the NIH

- Ongoing focus of the CCRWH, with presentations by:

- NICHD
- NIEHS
- ORWH
- NHLBI
- NCATS
- OBSSR
- NIDDK
- NIAAA
- ODS
- NINR
- NIBIB
- NIMHD
- NINDS

- ORWH portal/resource page with info. on relevant FOAs, events, resources for moms, etc. (under construction)



**NIH** Eunice Kennedy Shriver National Institute of Child Health and Human Development  
Office of Health Equity (OHE)

## Community Engagement Forum on Improving Maternal Health

April 8, 2019



**LaQuandra Nesbitt, M.D., M.P.H.**  
Director, D.C. Dept. of Health



**4<sup>TH</sup> ANNUAL NIH VIVIAN W. PINN SYMPOSIUM**

## Improving Maternal Health: Behind the Numbers

*Celebrating 20 Years of National Women's Health Week*

National Institutes of Health (NIH), Building 1, Wilson Hall  
May 15, 2019, 12:00 – 4:30 p.m. Eastern Time



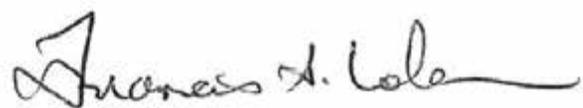
**Vivian W. Pinn, M.D.**  
Former Director (Retired), ORWH

Register on the  
[ORWH website](#)



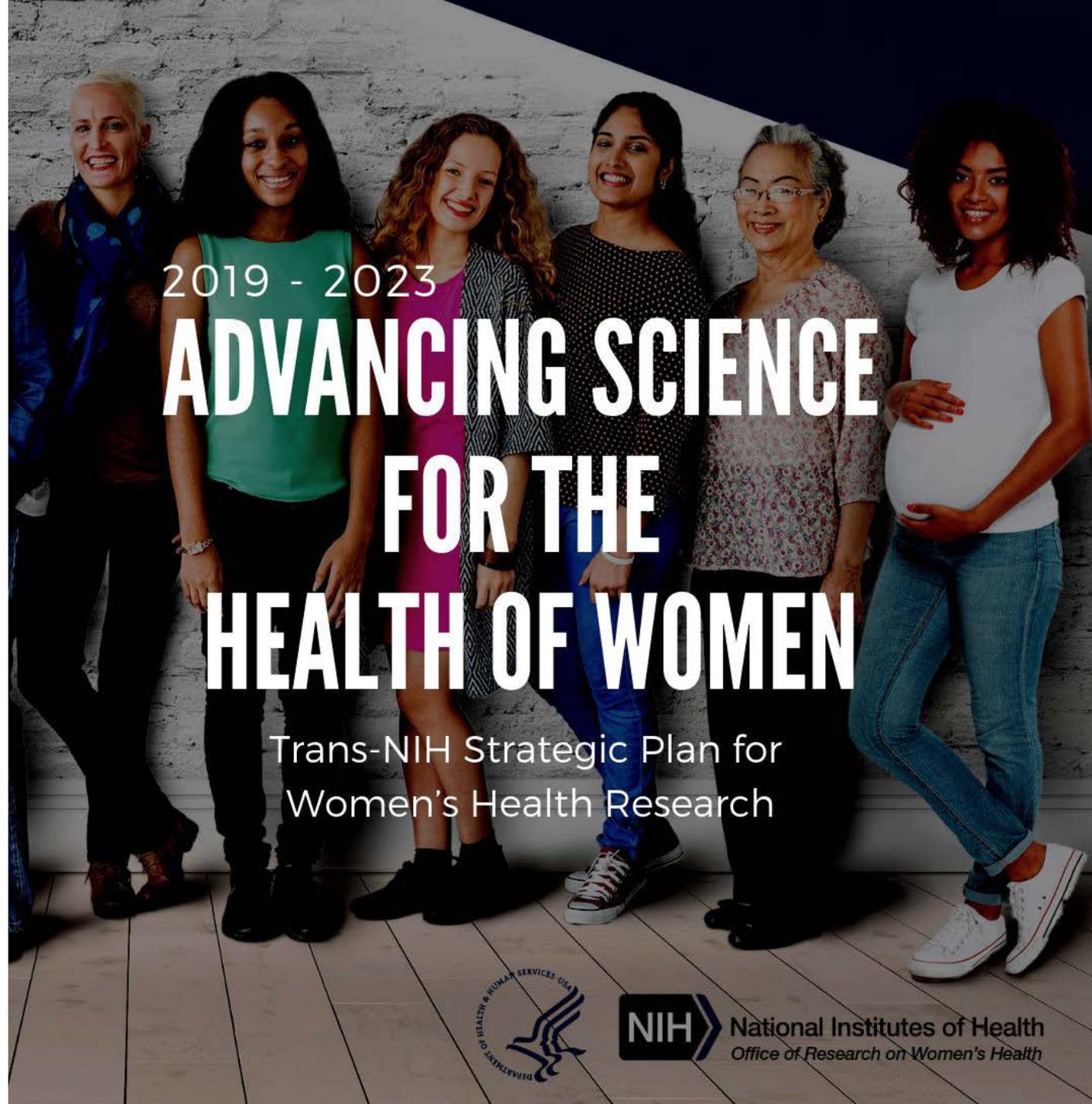
**Lisa M. Hollier, M.D.**  
President, ACOG

“[T]his plan will enhance the basic, preclinical, and clinical foundations of women’s health research; fuel new scientific initiatives to address pressing needs in women’s health; and bring disciplines together for integrated research to improve the health of women and, therefore, our nation.”



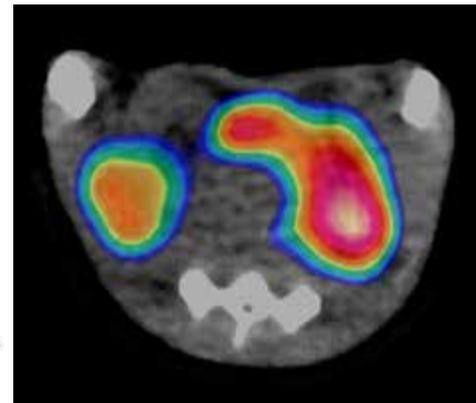
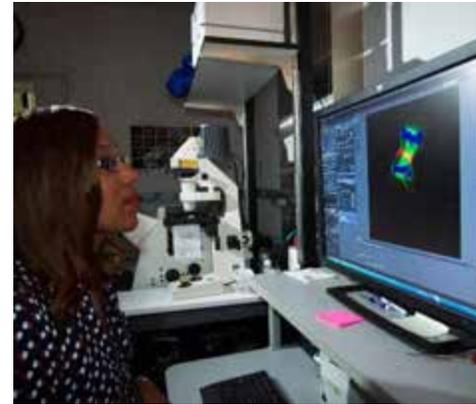
Francis S. Collins, M.D., Ph.D.  
Director, National Institutes of Health  
February 2019

Available at <https://report.nih.gov/strategicplans>



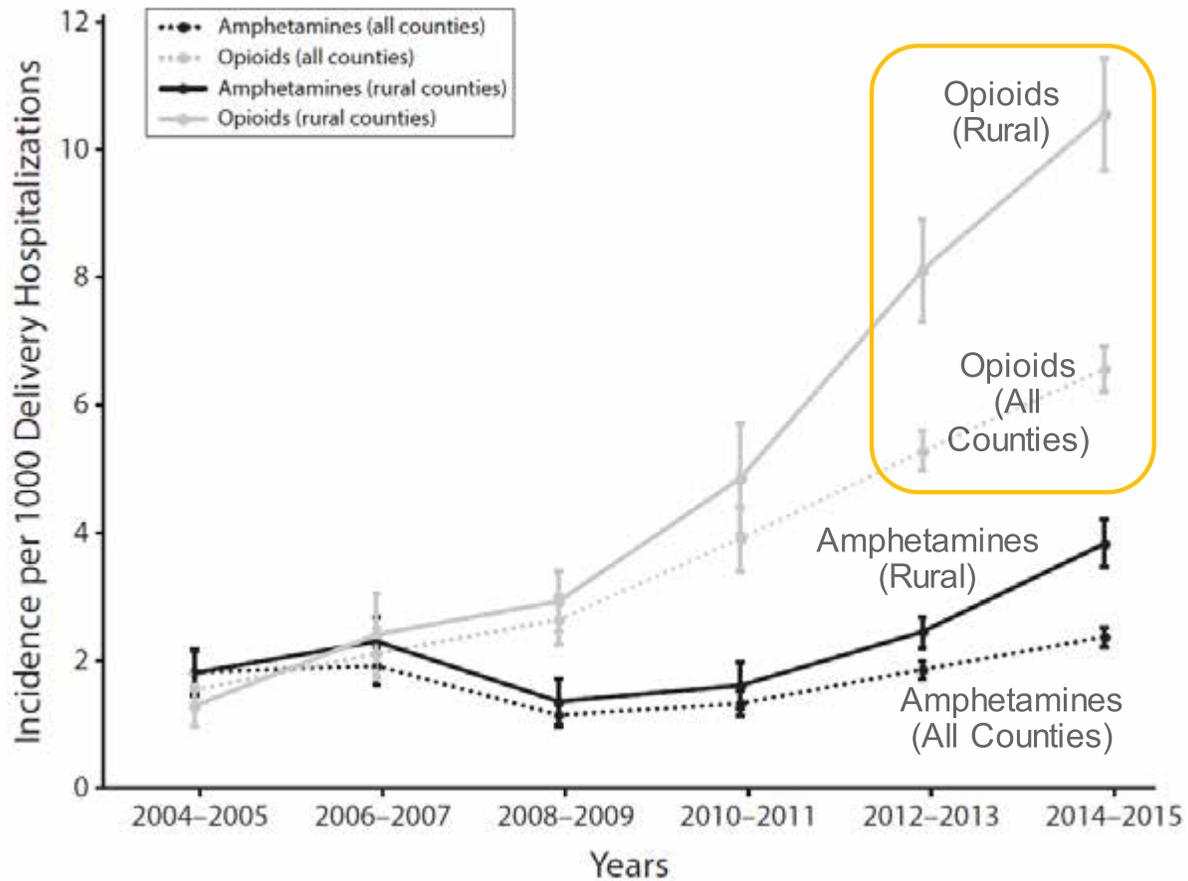
# Outline

- Scientific Collaborations
- Research Programs
- Women in Biomedical Careers
- Building Connections

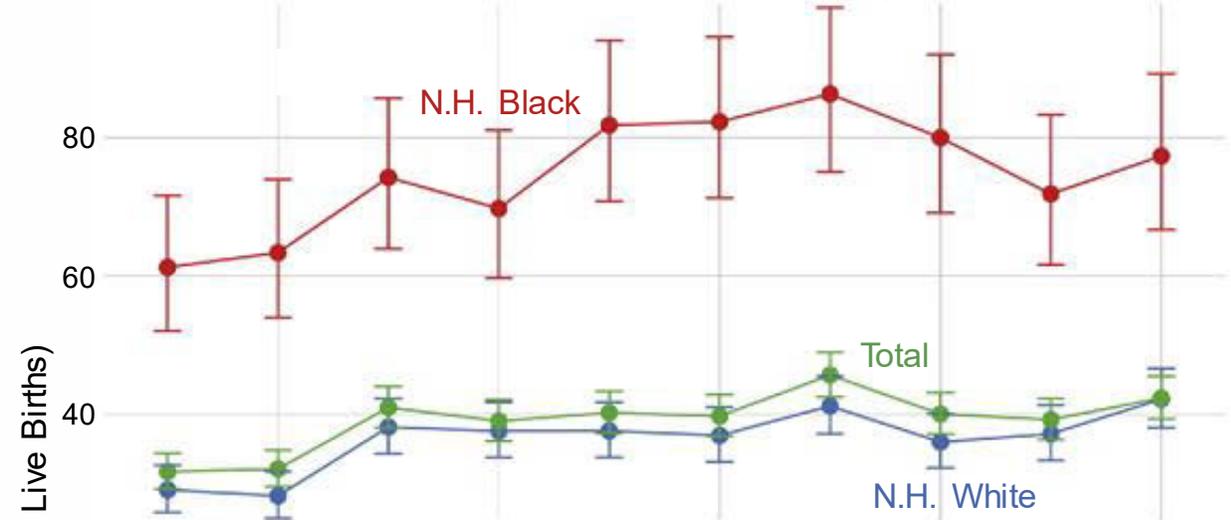


# The opioid public health crisis rages on

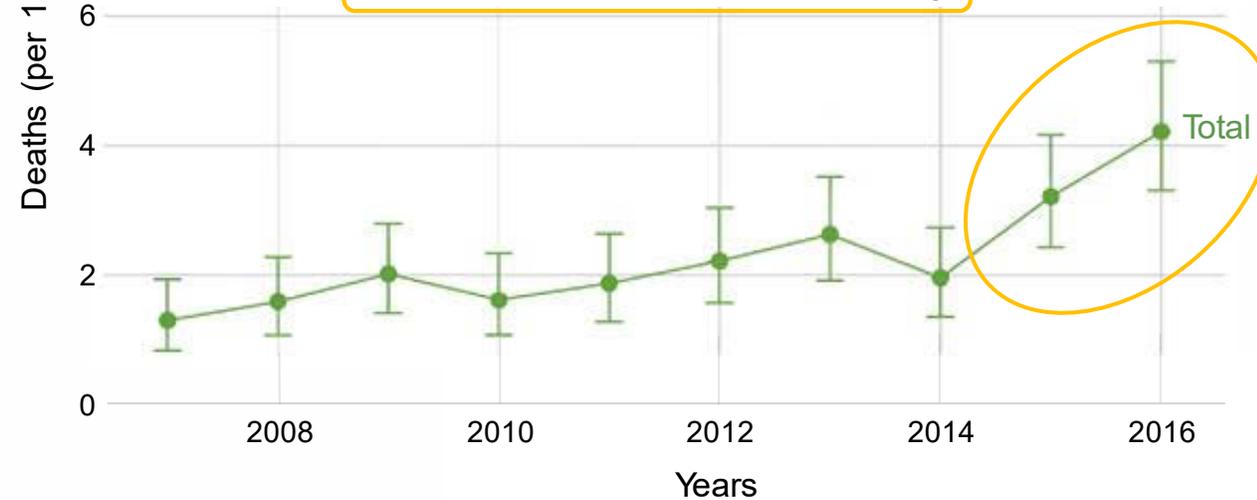
**U.S. Trends in Drug Use among Delivering Women**  
(HCUP's National Inpatient Sample; N = 47,164,263)



**All-cause Maternal Mortality**



**Opioid-related Maternal Mortality**



Admon et al. 2019. *AJPH* 109: 148-154.

Gemmil et al. 2019. *Am. J. Obstet. Gynecol.* 220: 115-116

# The Helping to End Addiction Long-term<sup>SM</sup> (HEAL) Initiative is a trans-agency effort to advance scientific solutions to this crisis



The graphic features a white silhouette of a human head in profile, facing left, filled with various colorful pills and capsules. The background is a teal gradient. The text is arranged in a structured layout with horizontal lines separating sections.

NIH

Helping to End  
Addiction Long-term

—

NIH HEAL  
INITIATIVE

—

A trans-NIH effort to address the  
opioid crisis through science

PAIN  
MANAGEMENT

OVERDOSE  
REVERSAL

OPIOID  
ADDICTION  
TREATMENT

- Basic research on pain & addiction pathways
- Implementation science to develop & test Tx models
- Research to integrate behavioral interventions with medication-assisted Tx for opioid use disorder
- Development of non-addictive pain Tx



# The Helping to End Addiction Long-term<sup>SM</sup> (HEAL) Initiative is a trans-agency effort to advance scientific solutions to this crisis



**NIH**

Helping to End  
Addiction Long-term

—

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A trans-NIH effort to address the  
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**PAIN  
MANAGEMENT**

**OVERDOSE  
REVERSAL**

**OPIOID  
ADDICTION  
TREATMENT**



**Nora D. Volkow, M.D.**  
Director of the National  
Institute on Drug Abuse

**NIH** National Institute  
on Drug Abuse  
*Advancing Addiction Science*

Photo: Mary Noble Ours



# ORWH signed onto 14 recent HEAL collaborations

FOA Title	FOA Number	Date Posted	Expiration Date	ORWH signed on?	Language on importance of sex/gend. diffs., SABV, and/or inclusion of W?
HEALthy Brain & Child Development (BCD) Study (Collaborative R34, R34)	RFA-DA-19-029 RFA-DA-19-036	Dec. 21, 2018 Dec. 21, 2018	Mar. 26, 2019 Mar. 26, 2019	Yes	Yes*
Clinical Devices to Treat Pain (UH3)	RFA-NS-19-018	Dec. 10, 2018	Feb. 23, 2021	Yes	No
Translational Devices to Treat Pain (UG3/UH3, U44)	RFA-NS-19-016 RFA-NS-19-017	Dec. 10, 2018 Dec. 10, 2018	Feb. 23, 2021 Feb. 23, 2021	Yes	No
Back Pain Consortium (BACPAC) Research Program: Mechanistic Research Centers (U19); Data Integration (U24); Technology Research Sites (UH2/UH3); Phase 2 Clinical Trials (UG3/UH3)	RFA-AR-19-026 RFA-AR-19-027 RFA-AR-19-028 RFA-AR-19-029	Dec. 10, 2018 Dec. 10, 2018 Dec. 10, 2018 Dec. 10, 2018	Mar. 21, 2019 Mar. 21, 2019 Mar. 21, 2019 Feb. 27, 2019	Yes	Yes*
Effectiveness Trials to Optimize, Implement, Scale & Sustain Collaborative Care Model for Individuals with OUDs & Mental Health Conditions (U01)	RFA-MH-19-525	Dec. 10, 2018	Apr. 2, 2019	Yes	Yes*
Optimization of Non-addictive Therapies [Small Molecules & Biologics] to Treat Pain (UG3/UH3, U44)	RFA-NS-19-020 RFA-NS-19-010	Dec. 10, 2018 Nov. 5, 2018	Jun. 5, 2019 Jun. 5, 2019	Yes	No
Analytical and/or Clinical Validation of a Candidate Biomarker for Pain (R61/R33)	RFA-NS-18-046	Sep. 19, 2018	Mar. 13, 2020	Yes	Yes*
Discovery of Biomarkers, Biomarker Signatures & Endpoints for Pain (R61/R33)	RFA-NS-18-041	Aug. 2, 2018	Mar. 13, 2020	Yes	Yes*

\*Above and beyond boilerplate



**Rebecca Baker, Ph.D.**  
Director, HEAL Initiative

# HEAL

HEALTHY BRAIN AND CHILD DEVELOPMENT INITIATIVE

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"Given the higher prevalence of pain disorders in females and their greater sensitivity to pain, there is a crucial need to include women in pain and opioid-related research. Integrating the purposeful accounting for [SABV] in biomedical research on pain and opioid use throughout the life span **will fill gaps in our knowledge and inform more effective, personalized approaches to improve health for women and men.**"

HEAL Initiative: HEALthy Brain and Child Development  
Study. R34 Planning Grant. RFA-DA-19-029

# On March 13, 2019, the federal charter for the Task Force on Research Specific to Pregnant Women & Lactating Women (PRGLAC) was renewed for 2 years



- Est. in 2016 by the 21<sup>st</sup> Century Cures Act
- Membership:
  - NICHD, ORWH, NIAID, NIDDK, NIMH, NHLBI, NCATS
  - OASH (Senior Vaccine Advisor), OWH
  - CDC, FDA, AHRQ, HRSA
  - U.S. Dept. of Veterans Affairs
  - Defense Health Agency [DoD]
  - Reps. of relevant medical societies & NPOs
  - Relevant industry reps.
- Sep. 2018 Report (<https://bit.ly/2QjU4Ay>) with 15 recommendations:
  - Design research to include pregnant W & nursing moms, unless scientifically justified not to do so
  - Expand workforce of clinicians & researchers w/ expertise in obstetric & lactation pharmacology & therapeutics
  - Remove regulatory barriers that exclude pregnant W & nursing moms from research
- Will now provide advice & guidance to HHS Sec. on implementation of the 15 recommendations



**Diana Bianchi, M.D.**  
Director, NICHD  
Chair, PRGLAC Task Force



# On March 13, 2019, the federal charter for the Task Force on Research Specific to Pregnant Women & Lactating Women (PRGLAC) was renewed for 2 years

## Pharmacologic Research in Pregnant Women — Time to Get It Right

Ahizechukwu C. Eke, M.D., M.P.H., Kelly E. Dooley, M.D., Ph.D., and Jeanne S. Sheffield, M.D.

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April 4, 2019

N Engl J Med 2019; 380:1293-1295

DOI: 10.1056/NEJMp1815325

Facilitating inclusion of pregnant women in clinical research could help answer important questions about the effects of medication use during pregnancy and the ways in which pregnancy alters pharmacokinetics and drug effects.

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## “Is It Safe?” — The Many Unanswered Questions about Medications and Breast-Feeding

John J. Byrne, M.D., M.P.H., and Catherine Y. Spong, M.D.

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April 4, 2019

N Engl J Med 2019; 380:1296-1297

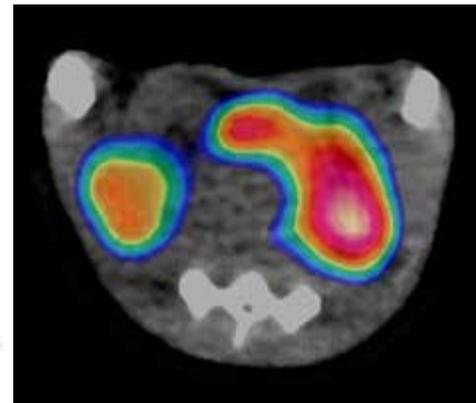
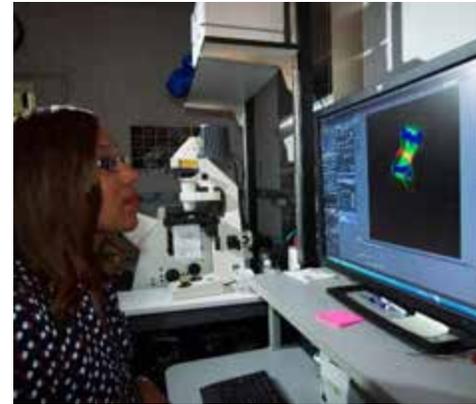
DOI: 10.1056/NEJMp1817420

More than half of new mothers take one or more medications in the months after delivery. But health care providers often lack the evidence they need to counsel breast-feeding women on medications' potential effects on lactation, on mothers, or on their babies.

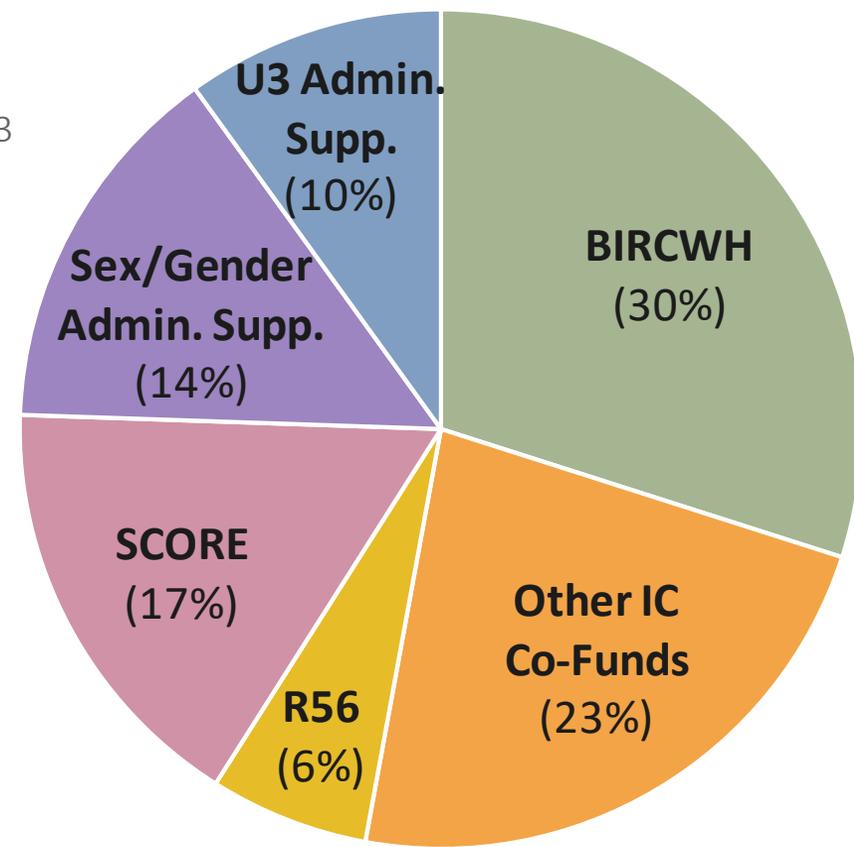
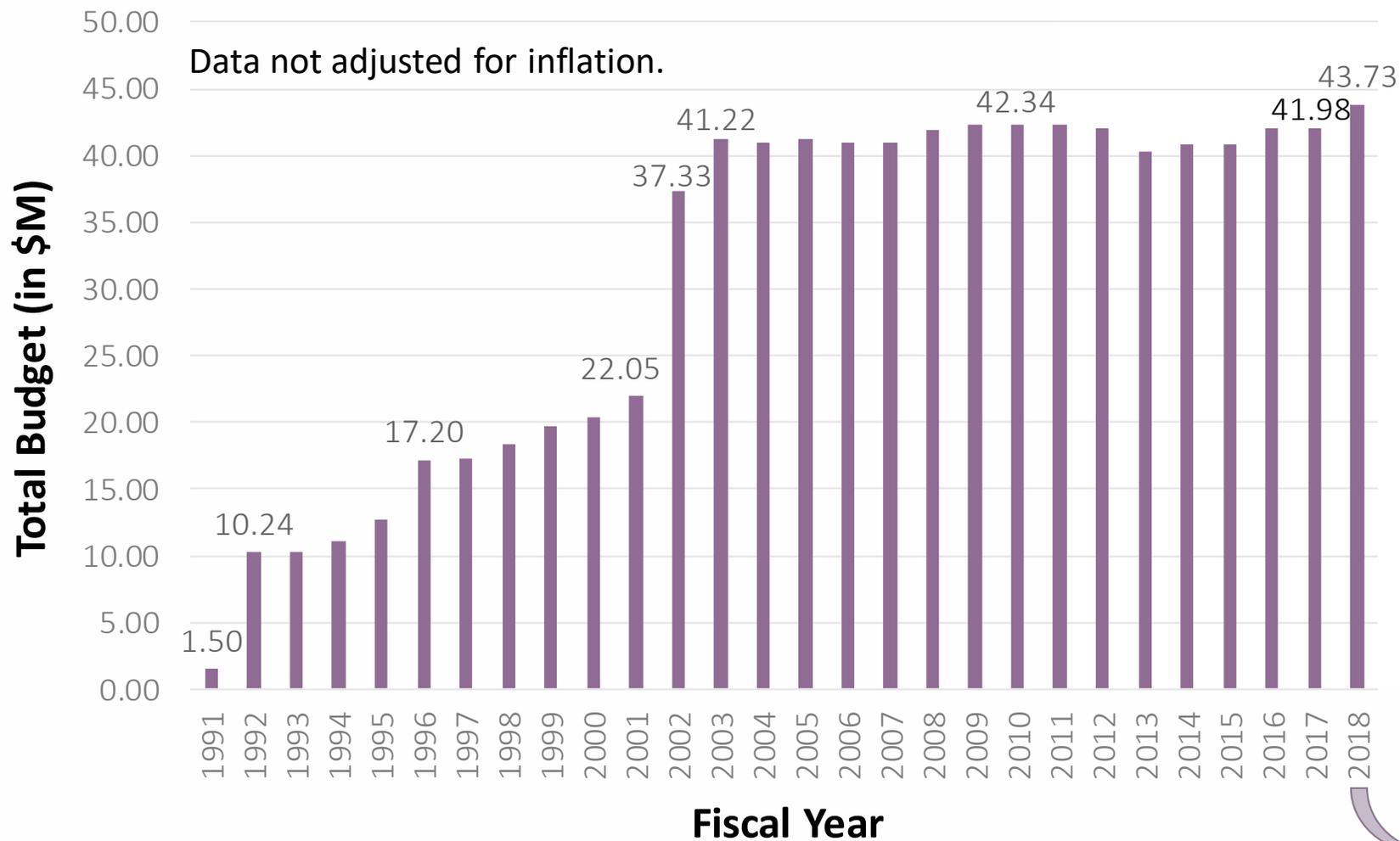


# Outline

- Scientific Collaborations
- **Research Programs**
- Women in Biomedical Careers
- Building Connections

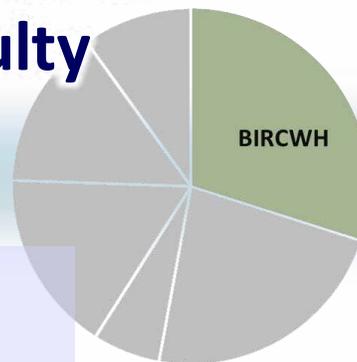


# ORWH Funding History & FY18 Extramural Award Profile



**FY18 Extramural Award Profile**  
(as % of Extramural Budget)

# Building Interdisciplinary Research Careers in Women's Health Program uses K12 mechanism & focuses on junior faculty



PIs

Scholars

## Spotlight on BIRCWH



Karen M. Freund, M.D., M.P.H.  
Jennifer DuPont, Ph.D.  
*Loss of vascular angiotensin II type 2 receptor contributes specifically to female vascular aging*



Jill M. Goldstein, Ph.D.  
Simmie L. Foster, M.D., Ph.D.  
*Regulation of inflammatory cytokines by*



Kim A. Boggess, M.D.  
Matthew C. Mauck, M.D., Ph.D.



Ellen B. Gold, Ph.D., M.A.  
Laura M. Tully, Ph.D.  
*Neural mechanisms underlying ↑ psychotic & mood symptoms in females with schizophrenia*

20 BIRCWH Progs. supported by RFA-OD-15-001 & RFA-OD-16-013, to which the following ICOs signed on:

- ORWH
- NICHD
- NCI
- NIA
- NIAAA
- NIAID
- NIAMS
- NIDA
- NIDCR
- NIEHS

Watch the videocast: <https://videocast.nih.gov/Summary.asp?Live=28502&bhcp=1>

**BIRCWH RFA-OD-19-020 published in the NIH Guide on April 8, 2019 (reissuance of RFA-OD-15-001). Letters of intent due April 29, 2019. Applications due May 29, 2019.**

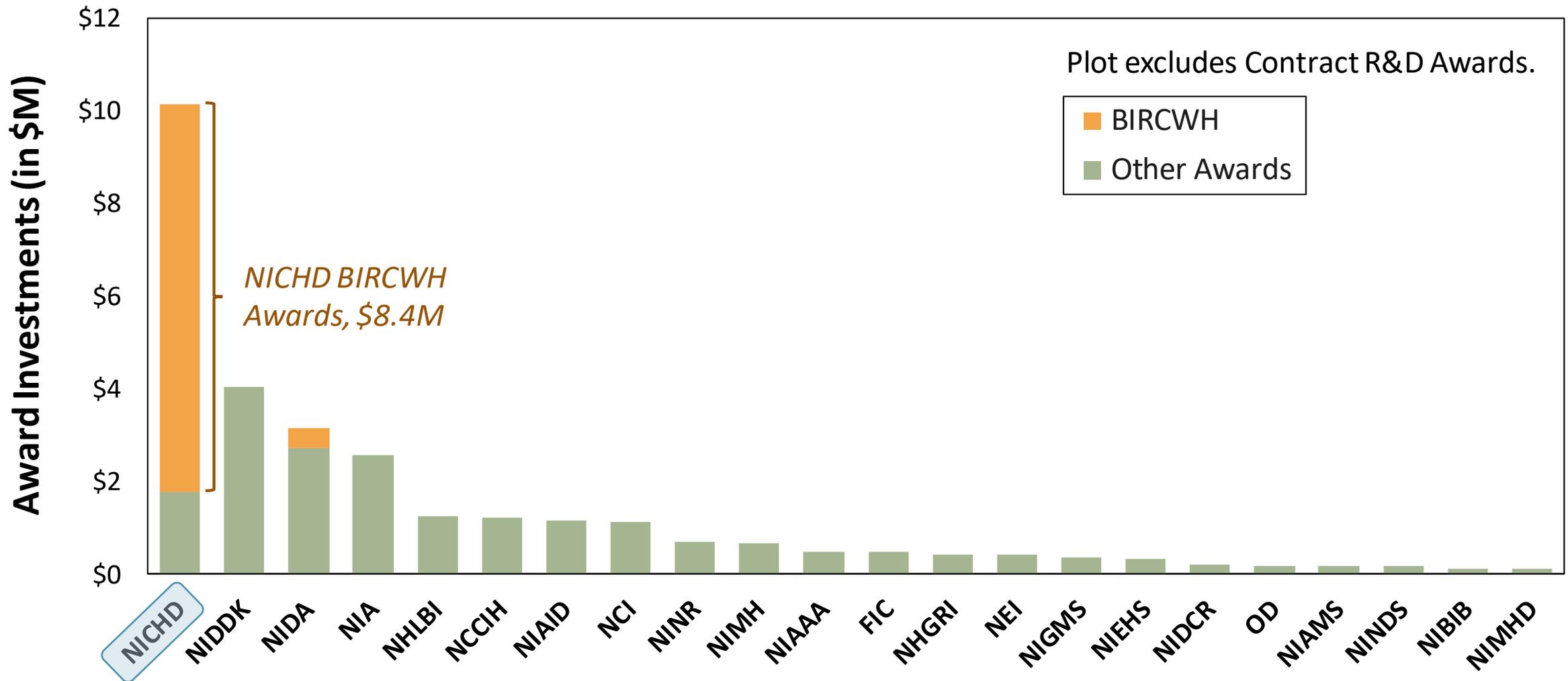
Tufts Medical Center

HARVARD MEDICAL SCHOOL

UNC SCHOOL OF MEDICINE

UCDAVIS

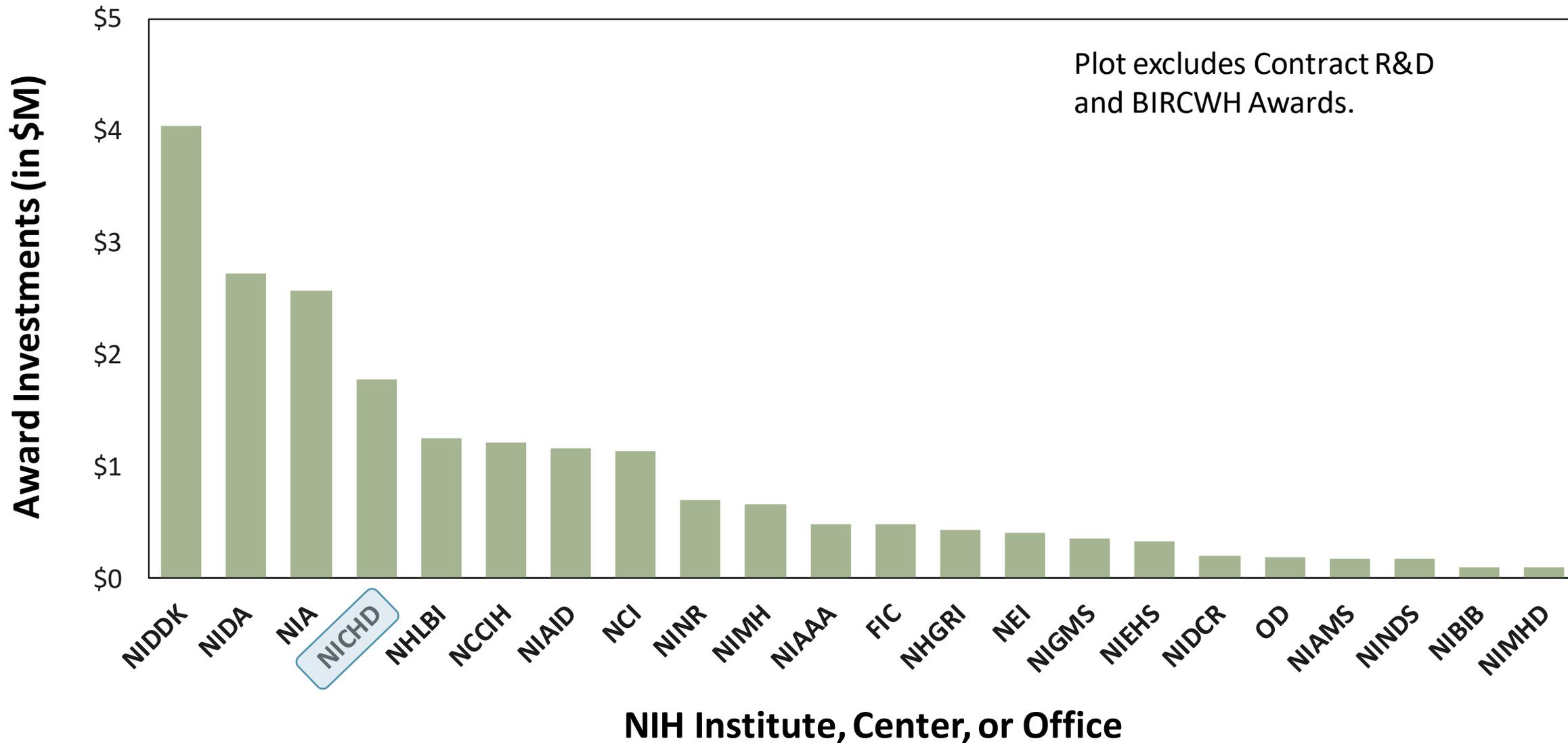
# ORWH FY18 Extramural Award Investments by ICO



NIH Institute, Center, or Office



# ORWH FY18 Extramural Award Investments by ICO



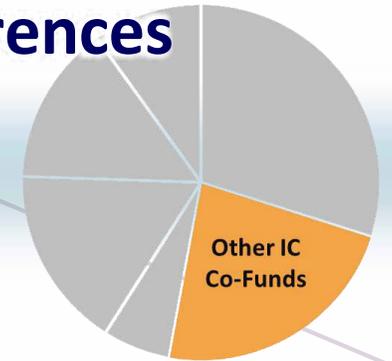
# ORWH Extramural Award Investments by Program in FY2018

Program	ORWH Contribution in FY18	# Funding ICs in FY18	List of Funding ICs in FY18
<b>SCORE*</b>	\$4.87 M	3	NIA; NIDA; NIDDK
<b>BIRCWH</b>	\$8.81 M	5	NICHD; NIDA; NIAAA; NIAID; NIAMS
<b>R56</b>	\$1.80 M	5	NCI; NHLBI; NICHD; NIDDK; NINR
<b>Sex/Gender Admin. Supp.</b>	\$4.27 M	19	NIDA; NINDS; NHLBI; NIAID; NIAMS; NIMH; NIDDK; NIA; NICHD; NIAAA; NIGMS; NCI; NIEHS; NCCIH; NIDCR; OD; NIBIB; NIMHD; NEI
<b>U3 Admin. Supp.</b>	\$2.92 M	8	NCI; NIAID; NICHD; NIDA; NIDDK; NIEHS; NIMH; NINR
<b>Other IC Co-Funds</b>	\$6.75 M	17	FIC; NCCIH; NCI; NEI; NHGRI; NHLBI; NIA; NIAAA; NIAID; NIAMS; NICHD; NIDA; NIDDK; NIGMS; NIMH; NINR; OD

\*Previously SCOR

# Since the program started in FY02, NIH has invested more than \$180 M in Specialized Centers of Research (Excellence) on Sex Differences

## Spotlight on Other IC Co-Funds



### Stephen W. Patrick, M.D., M.P.H., M.S.

Asst. Prof. of Pediatrics & Health Policy  
Dept. of Pediatrics  
Vanderbilt U. School of Medicine



### Early Stage Investigator / New Investigator

*R01: Improving access to Tx for W with opioid use disorder (OUD)*

Field expt. w/ simulated female patients of reprod. age (incl. pregnancy status) in randomly-selected outpatient BUP providers & opioid Tx programs in 10 states w/ varying policies

### Specific Aims

- Are pregnant women w/ OUD more likely to have trouble accessing opioid agonist Tx (OAT)?
- Does insurance type modify access to OAT?
- Do state policies promote or hinder access to Tx?

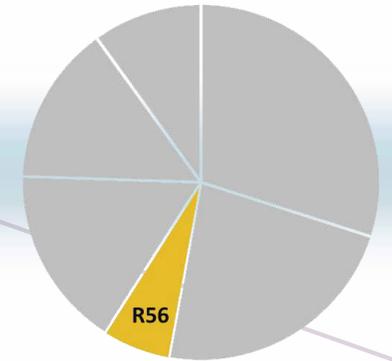
### ICs can request co-funding for:

- Research in early conceptual development
- Basic, preclinical, translational, or clinical research
- Research project grants, conference grants, small business grants, institutional training grants, or career development grants
- Research projects conducted by NIH intramural scientists



# The R56 High-Priority, Short-term Project Award is a DPCPSI initiative involving ORWH, ODS & OAR

## Spotlight on R56



### Tonda L. Hughes, Ph.D., R.N., FAAN

Henrik H. Bendixen Prof. of Int'l Nursing  
Director, Global Health Research  
Columbia U. School of Nursing



**March 2016 R56:** *Impact of supportive policies on minority stress, drinking, and health among sexual minority women (SMW)*

**September 2016 – present: R01 on the same topic**

### Specific Aims

- Examine effect of legal recognition of same-sex marriage on drinking outcomes in SMW—e.g., hazardous drinking (HD)
- Compare drinking outcomes among SMW who marry their same-sex partner & those of SMW in other same-sex relationships
- Identify associations between long-term trajectories of alcohol consumption & HD and SMW's physical & mental health

Within the 2 yrs. following receipt of the R56, 57% of FY16 grantees were found to have gone on to obtain R01 funding on the same or closely-related topic.

**3 papers were supported by the R56 funding**

Everett et al. 2016. *Social Science & Medicine* **169**: 180-190.

Dirkes et al. 2016. *Journal of Clinical Nursing* **25**: 3545-3556.

Riley et al. 2017. *Substance Use & Misuse* **52**: 43-51.



Photo: Columbia U.  
School of Nursing

# Spotlight on SCORE



## Multi-PI Award:

**U54: Emory Specialized Center of Research Excellence on Sex Differences**

### Igho Ofotokun, M.D., M.S.

Professor of Medicine  
Prof. of Behavioral Science &  
Health Education



### Lisa Haddad, M.D., M.S., M.P.H.

Assoc. Prof. of Medicine  
Dept. of Gynecology & Obstetrics

**3 research projects will explore synergy between HIV-induced immune activation & chronic inflammation & that induced by E insensitivity in W aging w/HIV**

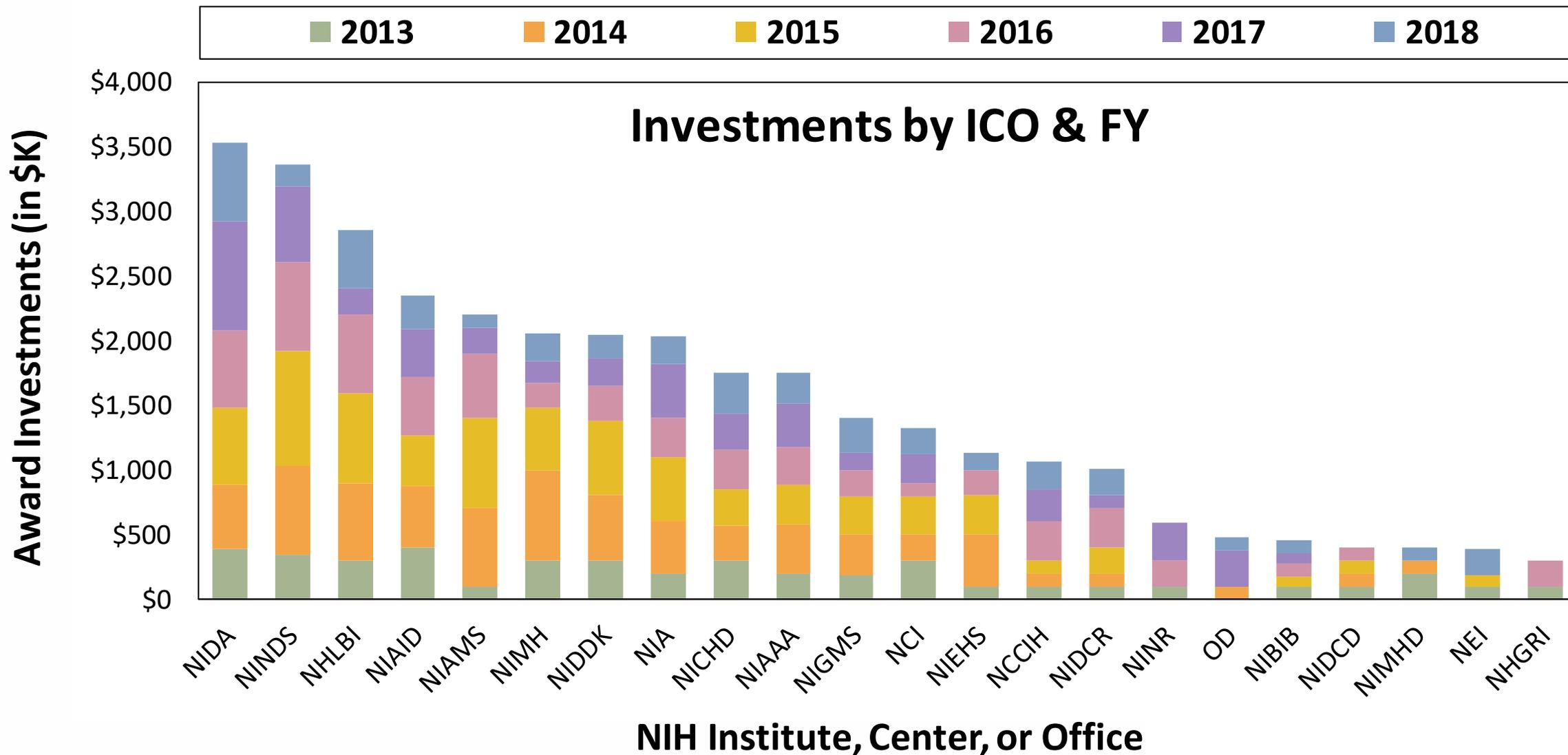
- 1. Neuro HPA Axis Project**
- 2. Musculoskeletal Project**
- 3. Cardiovascular Project**

- Disease agnostic, inter-disciplinary & translational research on sex differences
- Supported by a cooperative agreement (U54 mechanism)
- New mandatory Career Enhancement Core
- ORWH received 24 apps. in FY18 & co-funded 6 with 3 ICs: NIA, NIDA, NIDDK
- FOA reissued: RFA-OD-19-013

 **National Institute on Aging**

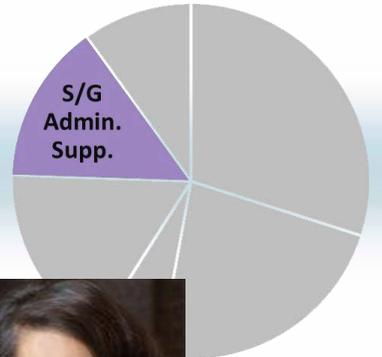
 **National Institutes of Health**  
Office of Research on Women's Health

# ORWH has invested \$32.9 M in the Sex & Gender Administrative Supplement Program since FY13



# ORWH has supported 341 S/G Admin Supps since FY13 and renewed the program for FY19

## Spotlight on Sex/Gender Admin. Supp.



### PI & Institution



Esther Dupont-Versteegden, Ph.D.



Forest White, Ph.D.



Monica Uddin, Ph.D.



### Parent Grant



R01 AT009268-01  
Mechanisms underlying anabolic effects of cyclic compressive loading in muscle



U54 CA210180-02  
Glioblastoma cell invasion profiles & implications for therapeutic response



R01 MD011728-01  
Epigenomic predictors of PTSD & traumatic stress in an African American cohort

### Admin Supp

Study Type

Main Approach

**Preclinical**

Addition of subjects to existing study to increase power for testing sex diffs.

**Preclinical + Clinical**

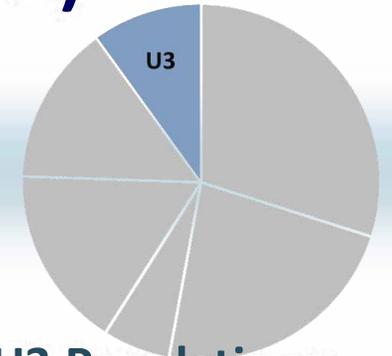
Addition of new sex/gender to single sex/gender research

**Clinical**

Sex/gender-based comparative analysis of existing samples/data sets

# ORWH has supported 23 U3 Admin Supps (\$4.4 M tot.) since FY17, and we reissued the FOA for FY19

## Spotlight on U3 Administrative Supplement



- U3 Populations:**
- Understudied
  - Underrepresented
  - Underreported



**Multi-PI Award – Parent Grant: (R01)**



**Novel Wireless Ingestible Sensor System for Measurement of Medication Adherence in HIV Treatment & Prevention**

**Sara Browne, M.D.**  
Associate Clinical Professor  
Dept. of Medicine  
Div. Infectious Diseases

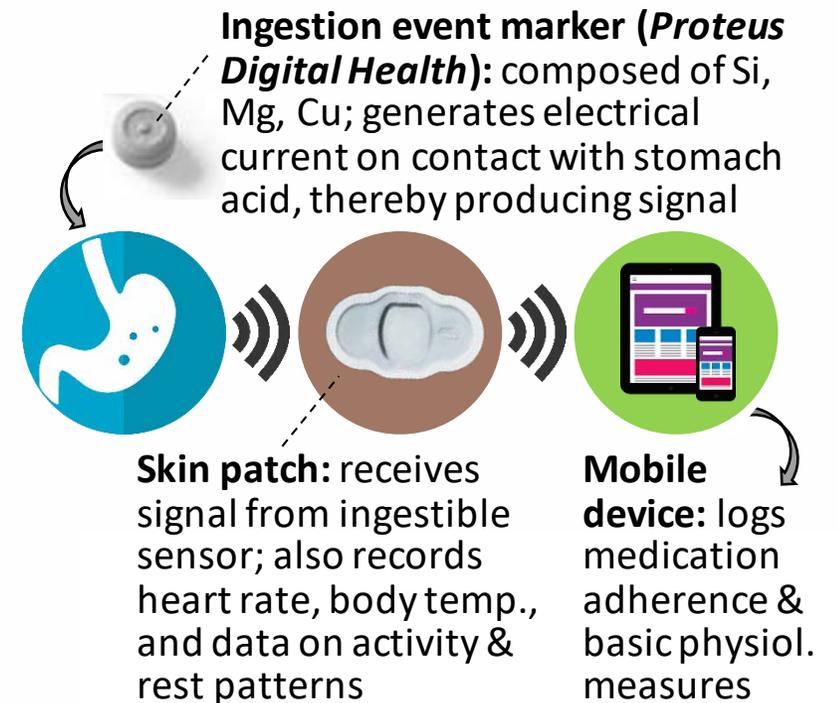
**This study will:**

- provide PK data on Truvada® for American women for the first time;
- investigate patterns of adherence to PrEP among disadvantaged U.S. women and barriers associated with PrEP adherence.



**UC San Diego**

**Connie Benson, M.D.**  
Prof. of Medicine & Global Public Health  
Div. Infectious Diseases



# SABV expertise and knowhow in sex & gender analysis considered for peer review: ODP efforts



National Institutes of Health  
Office of Disease Prevention

Prevention Research Expertise Survey

OMB# 0925-0728

Expiration Date: 11/30/2020

ODP enhanced their database of peer reviewers, which is populated via the Prevention Research Expertise Survey (PRES). They added:

Content Topic Areas of Expertise	None	Basic	Skilled	Expert
Addiction	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aging	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Alcohol	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Allergies	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Alzheimer's Disease <span style="border: 1px solid red; padding: 2px;">"New"</span>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Arthritis	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Asthma and Other Respiratory Diseases	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Built Environment	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public Health Preparedness	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of Life	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sex as a Biological Variable <span style="border: 1px solid red; padding: 2px;">"New"</span>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sexual Behaviors	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sexually Transmitted Infections	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# SABV expertise and knowhow in sex & gender analysis considered for peer review: ODP efforts



National Institutes of Health  
Office of Disease Prevention

Prevention Research Expertise Survey

OMB# 0925-0728

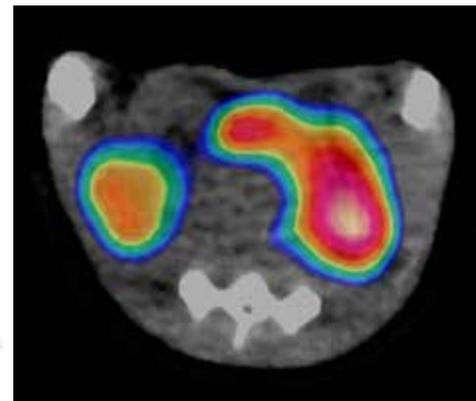
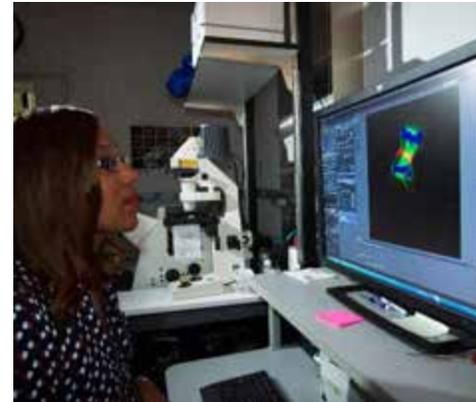
Expiration Date: 11/30/2020

ODP enhanced their database of peer reviewers, which is populated via the Prevention Research Expertise Survey (PRES). They added:

Research Methods	None	Basic	Skilled	Expert
Agent-Based Modeling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative/Authentic Assessment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analysis of High-Dimensional Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analysis of Small Sample Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bayesian Methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Propensity Score Methods (Matching, Weighting, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Psychometric Methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sex and Gender Analysis <small>"New"</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Simulation Methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structural Equation Models	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured Observations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Subgroup Analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Outline

- Scientific Collaborations
- Research Programs
- **Women in Biomedical Careers**
- Building Connections



# Historic *Lancet* issue champions advancing women in STEMM

## The art of medicine

Women's value: beyond the business case for diversity and inclusion

## Achieving women's equity in academic medicine: challenging the standards

# THE LANCET

Volume 393 · Number 10171 · Pages 493-610 · February 9-15, 2019

www.thelancet.com

Advancing women in science,  
medicine, and global health



### Editorial

Minimism is for everybody  
See page 493

### Articles

Are gender gaps due to  
evaluations of the applicant  
or the science?  
See page 531

### Articles

Sex-related reporting in  
medical research  
See page 520

### Review

Organisational best practices  
towards gender equality in  
science and medicine  
See page 587

### Health Policy

More talk than action: gender  
and ethnic diversity in  
universities  
See page 598

<http://bit.ly/LancetWomen2019>

£5.00 Registered as a newspaper · ISSN 0140-6736  
Founded 1823 · Published weekly

# Historic *Lancet* issue champions advancing women in STEMM

Factors affecting sex-related reporting in medical  
research: a cross-disciplinary bibliometric analysis

VIEWPOINT | [VOLUME 393, ISSUE 10171, P604-608, FEBRUARY 09, 2019](#)

Athena SWAN and ADVANCE: effectiveness and lessons  
learned

[Prof Sue V Rosser, PhD](#)   • [Sarah Barnard, PhD](#) • [Prof Molly Carnes, MD](#) • [Fehmidah Munir, PhD](#)

Published: February 09, 2019 • DOI: [https://doi.org/10.1016/S0140-6736\(18\)33213-6](https://doi.org/10.1016/S0140-6736(18)33213-6) •

Taking the battle against sexual harassment in global  
academia online



**NIH** National Institutes of Health  
Office of Research on Women's Health

# New article advocates “sex-based & gender-based research curricula”

“Although much work remains to be done, the foundations are now laid to change how sex and gender considerations are addressed in research. The stakes are high: optimal health for all people across the lifespan, regardless of their sex or gender.”

COMMENT | VOLUME 7, ISSUE 4, P248-250, APRIL 01, 2019

## Integrating sex and gender considerations in research: educating the scientific workforce

Judith G Regensteiner  · Anne M Libby · Rachel Huxley · Janine Austin Clayton

Published: February 07, 2019 · DOI: [https://doi.org/10.1016/S2213-8587\(19\)30038-5](https://doi.org/10.1016/S2213-8587(19)30038-5)

## THE LANCET Diabetes & Endocrinology



### Editorial

Gender equity in diabetes and endocrinology  
See page 241

### Articles

Intermediate hyperglycaemia to predict progression to type 2 diabetes  
See page 242

### Review

Advances in the medical treatment of Cushing's syndrome  
See page 300

Regensteiner JG, Libby AM, Huxley R, Clayton JA. 2019. Integrating sex and gender considerations in research: educating the scientific workforce. *The Lancet Diabetes & Endocrinology* 7(4): 248-250.



**NIH** National Institutes of Health  
Office of Research on Women's Health

# 2018 BIRCWH meeting brought scholars together for mentoring, networking, and advancing



**PRESENTING**



**NETWORKING**

# 2018 BIRCWH meeting brought scholars together for mentoring, networking, and advancing



**LEARNING**



**SEEKING**



**NIH** National Institutes of Health  
Office of Research on Women's Health

# 2018 BIRCWH meeting brought scholars together for mentoring, networking, and advancing



**DR. JEANNE-MARIE GUISE**  
**“MENTORING AS MEDICINE”**  
**RUTH L. KIRSCHSTEIN MEMORIAL LECTURE**



# NIH promotes women scientists and career-enhancing networking

- Jan. 16 “Wednesday Afternoon Lecture Series” featured **Dr. Alondra Nelson**
  - President of the Social Science Research Council and Professor of Sociology at Columbia University
  - First spoke to the WG’s WOC Committee
  - Her lecture “The Social Life of DNA” addressed the intersections of race, science, history, and social issues
- Two recent speakers include
  - April 3: Julie Segre, Ph.D., National Human Genome Research Institute, **“Microbiome: friend and foe”**
  - March 27: Lauren O. Bakaletz, Ph.D., Research Institute, Nationwide Children’s Hospital, **“How to bust up a bacterial biofilm”**
- Ten high-profile women speakers since the fall



Photo: Marleen Van Den Neste

# NASEM revisits seminal report, ... but first some history



"Career impediments for women deprive the nation of an important source of talented and accomplished scientists and engineers who could contribute to our nation's competitiveness."

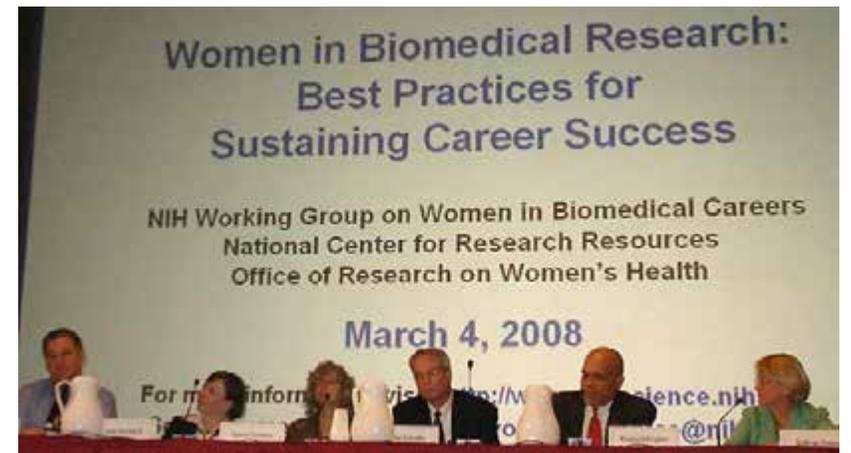
BEYOND BIAS AND BARRIERS  
FULFILLING THE POTENTIAL OF WOMEN IN  
ACADEMIC SCIENCE AND ENGINEERING, 2007

*The National  
Academies of*

SCIENCES  
ENGINEERING  
MEDICINE

# NIH took report seriously—established working group and new work-life policies

- NIH Director Elias Zerhouni, M.D., created and co-chaired the Working Group on Women in Biomedical Careers (WG) in 2007
  - Co-chaired today by Francis S. Collins, M.D., Ph.D. and Janine A. Clayton, M.D.
- Introduced family-friendly policies and programs
  - Paid parental leave
  - Leave bank
  - Backup care
  - Extended tenure clock
  - Temporary lab mgr. program
  - Keep the Thread



# NIH funds research on causal factors and interventions to support women in science

## *Generating Evidence*

14 Grants  
\$16.8M/4 years  
11 ICs & 4  
Offices in OD

- Research on unconscious bias, mentoring, institutional flexibility
- Research Partnership for Women in Biomedical Careers
- >120 publications including *Acad. Med.* (2016) & *JWH* (2017)

C  
H  
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# Fast forward: NASEM study is “addressing the underrepresentation of women” in STEMM

## EXAMINE:

- *How* women’s participation varies across disciplines
- *How* the intersection of race and gender impacts on women of color in STEMM
- *What* interventions have produced **sustained** improvements in representation and leadership
- *Why* effective interventions haven’t been scaled up or adopted more

**DEVELOP** actionable recommendations to improve representation and leadership

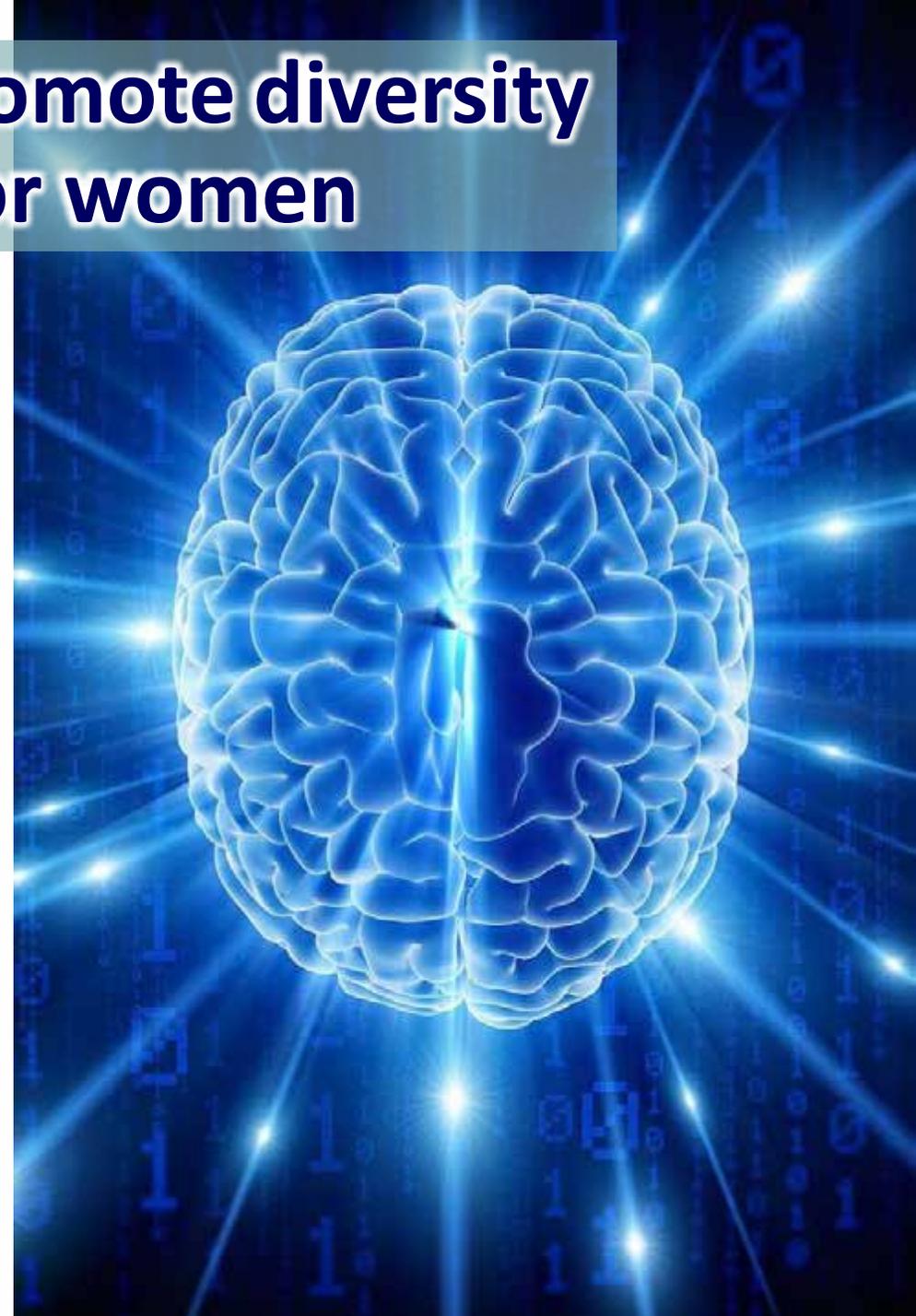


**MAE C. JEMISON, M.D. – Chair**  
President, BioSentient Corp.  
First African American woman to  
go into space



# **BRAIN Initiative Awards promote diversity and launch careers for women**

- With ORWH co-funding and broad IC participation, NIH BRAIN Initiative Advanced Postdoctoral Career Transition Awards offer independent research support
- Facilitate transition of outstanding postdoc researchers from mentored positions to tenure-track or equivalent faculty positions
- Help awardees from diverse backgrounds launch independent research careers



---

"Sexual harassment is about power...  
It's morally indefensible, it's  
unacceptable, and it presents a major  
obstacle that is keeping women from  
achieving their rightful place in  
science."

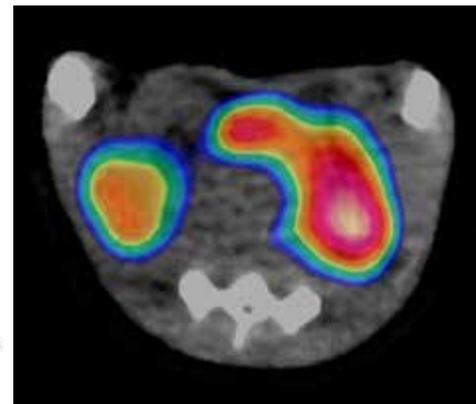
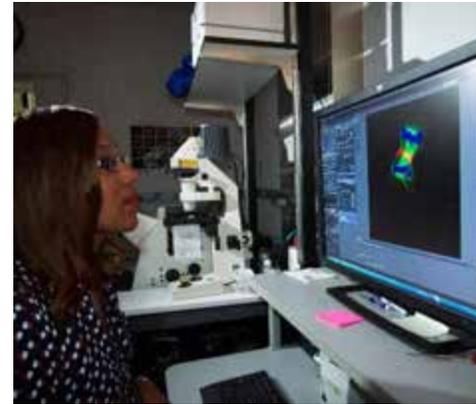
FRANCIS S. COLLINS, MD, PHD  
Director, National Institutes of Health  
September 28, 2018



**Hannah Valentine, M.D.**  
Chief Officer for Scientific  
Workforce Diversity

# Outline

- Scientific Collaborations
- Research Programs
- Women in Biomedical Careers
- **Building Connections**



# ORWH staff connect via publications

Alvarado LJ, **Huntsman HD**, et al. 2019. Eltrombopag maintains human hematopoietic stem and progenitor cells under inflammatory conditions mediated by IFN $\gamma$ . *Blood*, E-pub ahead of print, 25-Feb-2019, doi: 10.1182/blood-2018-11-884486.

Alvidrez J, Nápoles AM, Bernal G, Lloyd J, **Cargill V**, et al. 2019. Building the evidence base to inform planned intervention adaptations by practitioners serving health disparity populations." *AJPH* **109**(S1): S94-S101.

Hagler DJ,..., **DelCarmen-Wiggins R**, et al. 2018. Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. *bioRxiv*, E-pub ahead of print, 4-Nov-2018, doi: <https://doi.org/10.1101/457739>

**Hopkins D** and Wilson C. 2019. Polycystic ovary syndrome in active duty service women: a retrospective analysis. *Mil Med*, E-pub ahead of print, 27-Feb-2019, doi: 10.1093/milmed/usz023.

Preussler JM, Mau L-W, Majhail NS, **Bevans M**, Clancy E, et al. 2019. Caregiver availability and patient access to hematopoietic cell transplantation: social worker perspectives inform practice. *Support Care Cancer*, E-pub ahead of print, 9-Mar-2019, doi: 10.1007/s00520-019-04696-2.

Regensteiner JG, Libby AM, Huxley R, **Clayton JA**. 2019. Integrating sex and gender considerations in research: educating the scientific workforce. *Lancet Diabetes Endocrinol.* **7**(4): 248-250.

Schoemans HM, Finn L, Foster J, Roche-Green A, **Bevans M**, et al. 2019. A conceptual framework and key research questions in educational needs of blood and marrow transplantation patients, caregivers, and families. *Biol Blood Marrow Transplant.*, E-pub ahead of print, 20-Feb-2019, doi: 10.1016/j.bbmt.2019.02.017.





# A MORE SOCIAL ORWH



# ORWH rocks during NIH Social Media Takeover Week (Jan. 7-11)

76

POSTS

2,939

ENGAGEMENTS

1,769/1,341

CLICKS

30.9 Million

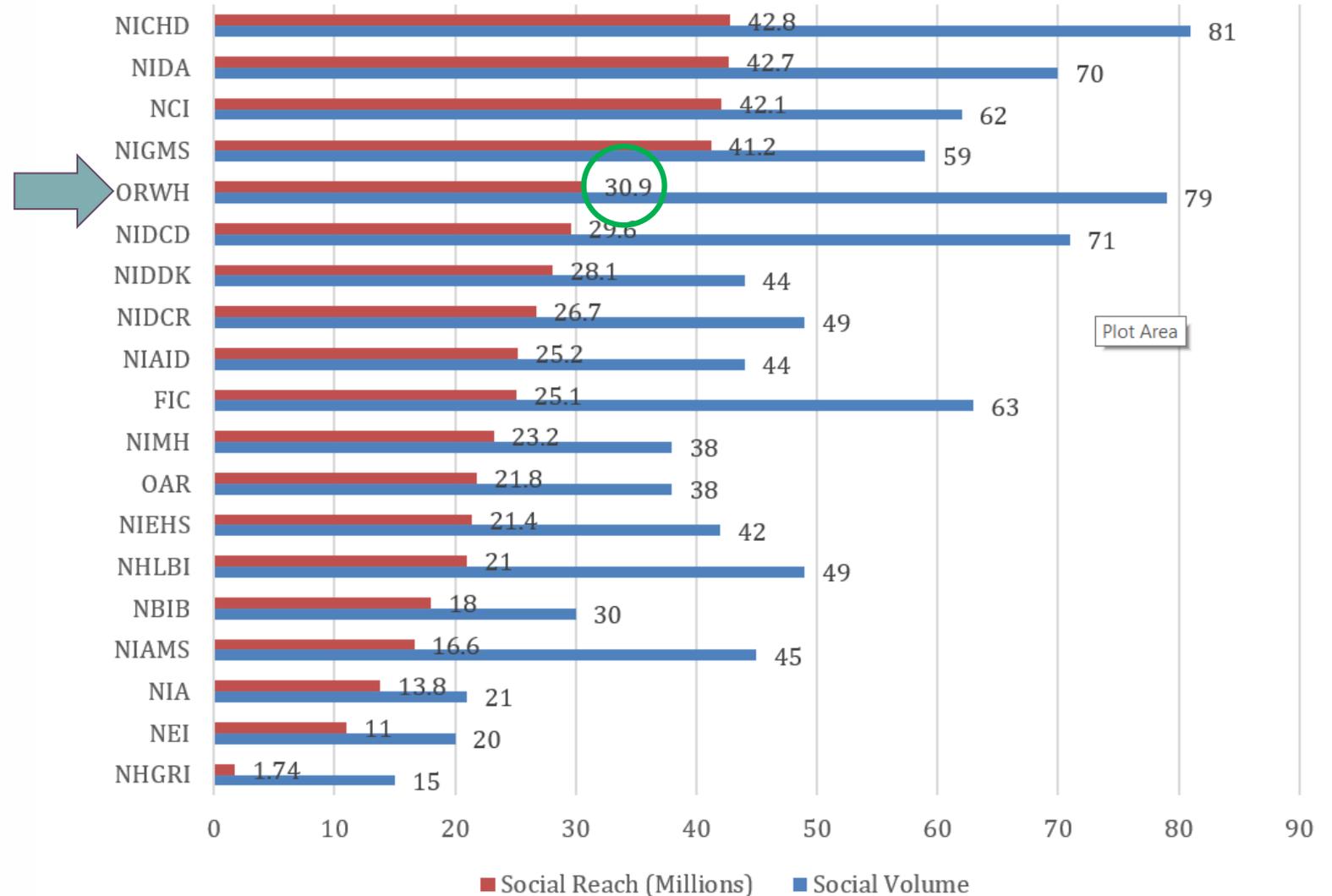
POTENTIAL VIEWERS



# ORWH's social reach placed 5<sup>th</sup>

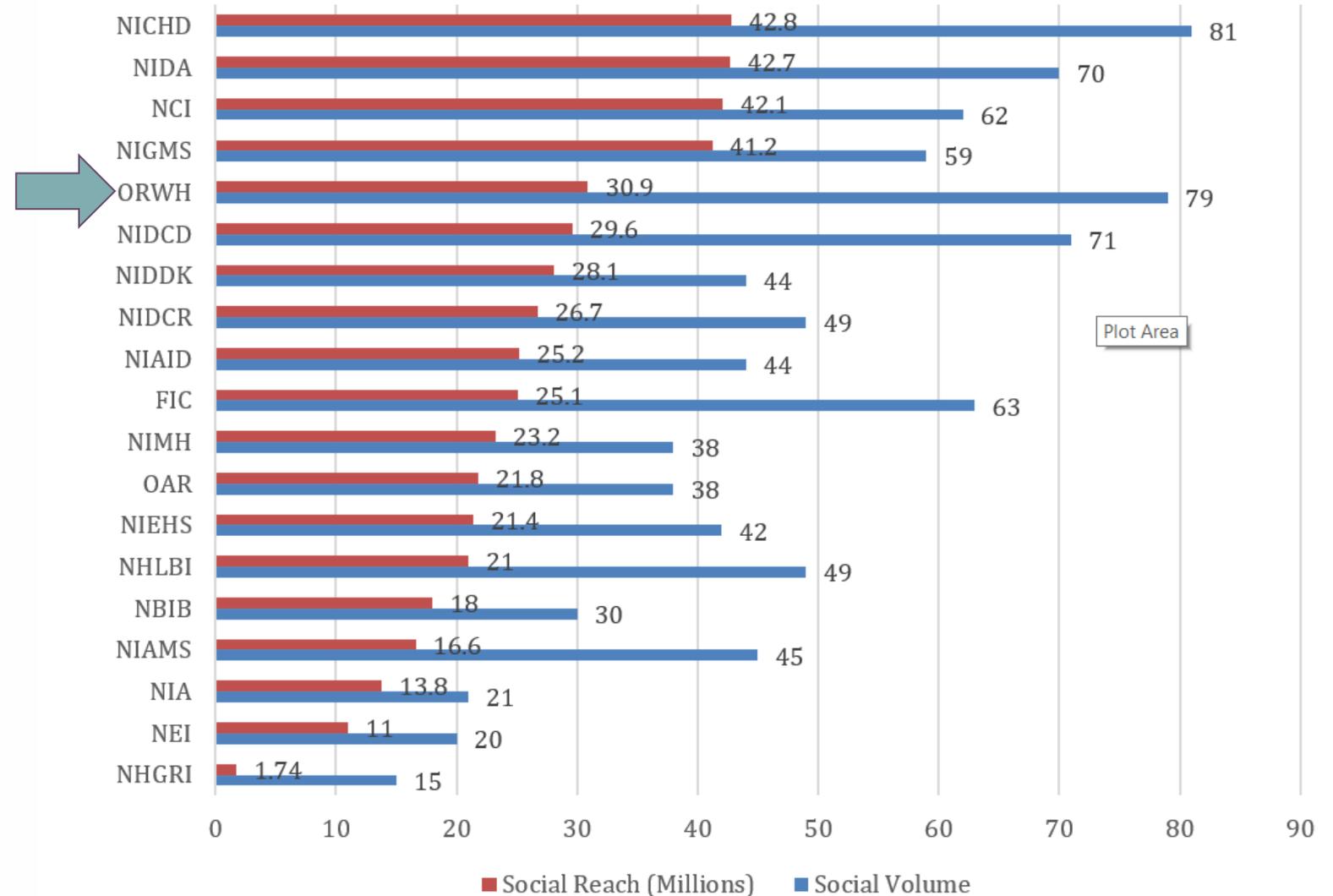
Social Reach vs. Social Volume

ORWH finished 5<sup>th</sup>  
among 19 ICOs,  
with 30.9 million  
potential viewers v.  
average of 25.42 M.



# Four ORWH posts were in the top 50!

Social Reach vs. Social Volume



Of the 1000+ NIH posts that were shared, ORWH had 4 in the top 50. One placed 19<sup>th</sup>!



# MEDIA HITS



Tilted: Episode 9

<https://leanin.org/podcast-episodes/why-women-get-overlooked-in-healthcare-with-serena-williams>

# Why women get overlooked in healthcare—with Serena Williams

Featuring:

Serena Williams, Dr. Janine Clayton, Dr. Esther Choo

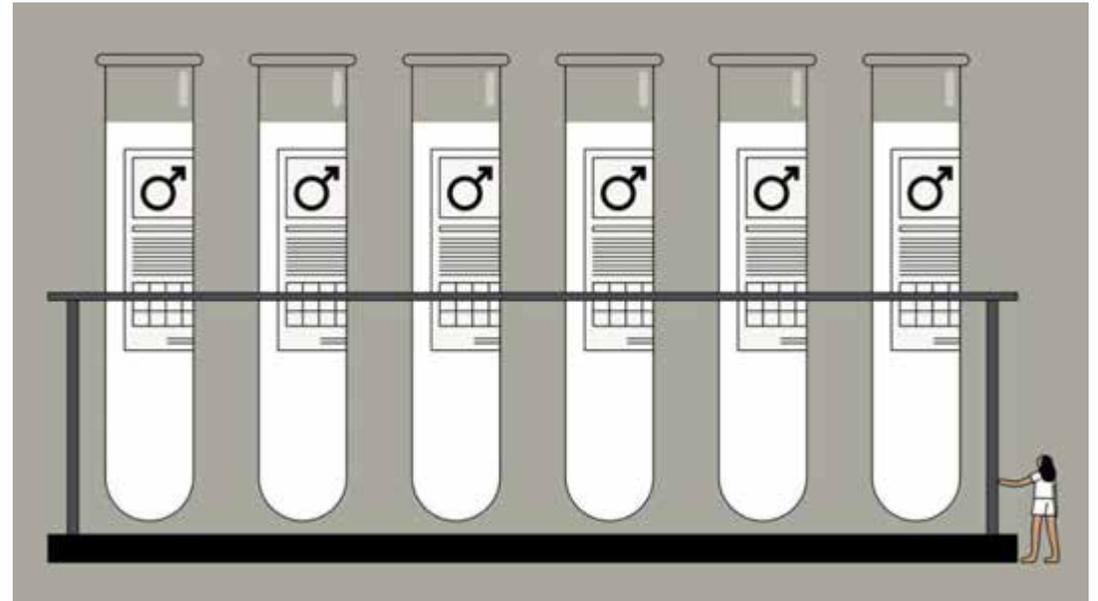


"Through this whole experience, I realized, especially with the pregnancy part, that a lot of women, especially black women, aren't listened to, and the rate that black women are dying and the mortality rate of moms is not shocking, it's actually frightening." [Serena Williams](#)

# ORWH heightens visibility in media

## Commonwealth Fund, March 2019

Seervai S. Mar. 2019. Closing the Medical Research Gap: Why It's Important to Study How Disease Impacts Men and Women Differently  
<https://doi.org/10.26099/61m9-k921>.



# ORWH heightens visibility in media

## NBC Today Show, Feb. 2019

Interview about NIH's efforts to reduce maternal morbidity and mortality. To be aired tomorrow, during the inaugural Black Maternal Health Week, part of National Minority Health Month.



# ORWH heightens visibility in media

NBC Today.com, Jan. 2019

Follow up to July interview continued discussion of gender bias in medicine, resulting in poor diagnoses and suboptimal treatment of women. To be broadcast sometime in April.



# Future Women's Health Events



Advancing Science for the Health of  
Women: The NIH Office of Research on  
Women's Health –

A Symposium at the OSSD Annual Meeting  
May 5, 2019 | 10am – 12pm EDT  
Washington Marriott Georgetown  
Washington, D.C.

<https://www.ossdweb.org/2019-meeting>

THE 4<sup>TH</sup>  
ANNUAL NIH  
VIVIAN W. PINN  
SYMPOSIUM

Improving Maternal Health:  
Behind the Numbers  
May 15, 2019 | 12pm-4:30pm EDT  
Building 1 (Wilson Hall)  
NIH Campus

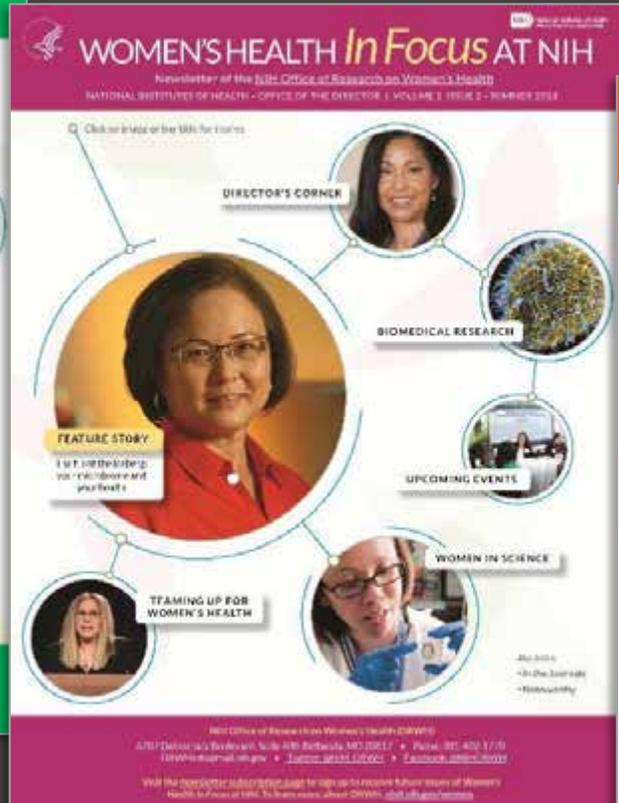
<http://bit.ly/PinnSymposium2019>

# Latest issue of *WOMEN'S HEALTH In Focus AT NIH* features new Trans-NIH Strategic Plan for Women's Health Research

Spring 2018



Summer 2018



Fall 2018



Winter 2019



YOY 15% Increase/Subscribers

YOY 30% Increase in Website Traffic



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robust workforce is the engine  
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