Reminder:
Special Government Employees

• 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
Members Retiring from the Advisory Committee

Thank you for your service!

Jill B. Becker, PhD
Biopsychology Chair
and Patricia Y. Gurin
Collegiate Professor of
Psychology, Dept. of
Psychology, University of Michigan

Carmen R. Green, MD
Assoc. Vice President,
Assoc. Dean for Health
Equity & Inclusion, and
Prof. of Anesthesiology,
Obstetrics & Gynecology,
and Health Management &
Policy, Univ. of Michigan
School of Public Health

Mary H. Palmer, PhD
Helen W. & Thomas L.
Umphlet Distinguished
Professor in Aging and
School of Nursing Interim
Co-Director, Institute on
Aging, University of North
North Carolina, Chapel Hill

Connie M. Weaver, PhD
Head of the Department of
Nutrition Science and
Distinguished Professor,
Purdue University
Introducing Our New Advisory Committee Members

Welcome aboard!

Wendy Brewster, MD, PhD
Professor and Director,
Center for Women's Health Research, University of North Carolina at Chapel Hill

Kimberly D. Gregory, MD
Associate Professor and Vice Chair, Women's Healthcare Quality and Performance Improvement, Cedars-Sinai Medical Center

Rachel Jones, PhD, RN, FAAN
Associate Professor, School of Nursing, Bouvé College of Health Sciences, Northeastern University

Marcia Stefanick, PhD
Professor (Research) of Medicine (Stanford Prevention Research Center) and of Obstetrics and Gynecology, Stanford University

Susan F. Wood, PhD
Associate Professor and Executive Director, Jacobs Institute of Women's Health, George Washington U.
Janine Austin Clayton, MD
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 18, 2018
New Acting NIH IC Director

Jill Heemskerk, PhD
Acting Director, National Institute of Biomedical Imaging and Bioengineering (NIBIB)
NIH Office of Research on Women’s Health (ORWH) History

Ruth Kirschtein, MD (1926–2009)

Bernadine Healy, MD (1944–2011)

Vivian W. Pinn, MD

Sen. Barbara Mikulski
D-MD, in office 1977–2017

Janine Clayton, MD

Rep. Louise Slaughter
(1929–2018)
D-NY, in office 1987–2018
New Team Member

Samia Noursi, PhD
New ORWH Associate Director
Outline

• Collaborations with ICOs
• Research Programs
• SABV Update
• Adjusting Our Course
• Women in Biomedical Careers
• Other ORWH Activities
FY18 omnibus bill provides at least $500M for NIH-funded research on opioid addiction

- Allows NIH to increase its funding for research on opioid misuse/addiction to $1.1 Billion in FY18
- On April 4, 2018, Francis Collins, MD, PhD, launched the HEAL Initiative:
  - An aggressive, trans-agency effort to speed scientific solutions to stem the opioid crisis

HEAL: Helping to End Addiction Long-term

The opioid crisis is a women’s health issue

- From 2005 to 2015, opioid-related inpatient hospital stays increased 55% in men and 75% in women.
- In 2014, **women** had higher rates of opioid-related inpatient hospital stays in **most states**.
- Between 1999 and 2015, death from Rx opioid overdoses increased 471% in women and 218% in men.

Rising opioid-related mortality rates in White women & men surpass cocaine-related mortality in non-Hispanic Blacks

- 2 FOAs posted on April 10, 2018
- “Addressing Challenges of the Opioid Epidemic in Minority Health & Health Disparities Research in the U.S.”

ORWH Interests
- “Gender-responsive approaches to account for differences associated with OUD”
- “Evidence-based practices (MAT, CBT, etc.) to address gender-specific concerns”
- “Gender-specific approaches to address mental health, reproductive and sexual health, and physical health of women with OUD”

Opioid abuse and the science of pain are linked.
Females experience greater pain sensitivity than males across all pain modalities.

Preclinical pain studies in nonhuman animals 1996 – 2005

79% used male rodents only

NIH Pain Consortium enhances collaboration among NIH Institutes, Centers & Offices that conduct research on pain

- Pain Consortium Members:
  - NINDS
  - NCCIH
  - NINR
  - NIDCR
  - NIDA
  - NCI
  - NIA
  - NICHD
  - NIAMS
  - NIMH
  - NEI
  - NIGMS
  - NIDDK
  - NIAAA
  - NIMHD
  - NIBIB
  - NIDCD
  - NCATS
  - NHLBI
  - FIC
  - CC
  - OBSSR
  - OTT
  - ORDR
  - ORWH

- Upcoming Pain Consortium Symposium (May 31 - June 1, 2018)
  From Science to Society: At the Intersection of Pain Management and the Opioid Crisis
  - Keynote Speaker: Judith Paice, PhD, RN, Northwestern University
  - Info: https://painconsortium.nih.gov/Meetings_Events/Annual_Symposium

Judith Paice, PhD, RN
NIH Pain Consortium enhances collaboration among NIH Institutes, Centers & Offices that conduct research on pain

• Centers of Excellence in Pain Education (CoEPEs)

Sponsors
• NIDA
• NICHD
• NCCIH
• NIDCR
• NINR
• NINDS
• OBSSR
• ORWH

Recent Awardees
• Johns Hopkins University
• University of Pennsylvania
• University of Pittsburgh
• University of Rochester
• U. Alabama, Birmingham
• Southern Illinois U., Edwardsville
• University of Washington
• University of Connecticut
• U.C. San Francisco
• Harvard University
• University of Iowa

https://painconsortium.nih.gov/Funding_Research/CoEPEs
Interest in the opioid crisis also involves our Federal Partners.

Research Impact and Outcomes Framework

Your Research...Your Program...Your Impact

April, 2018


Office of Women’s Health

Center for Drug Evaluation and Research

Center for Tobacco Products

National Institutes of Health

Office of Research on Women’s Health
7,500+ participants have enrolled for the largest long-term study of brain development and child health in the U.S.

**ABCD Study**

- 21 Research Sites
- **Federal Collaborators**
  - NIDA
  - NIAAA
  - NCI
  - NIMH
  - NICHD
  - NINDS
  - NIMHD
  - ORWH
  - OBSSR

**Enrollment as of Feb. 28, 2018**
- Goal = 10,000 children ages 9-10
- Data avail. for first 4,500 participants

**Press Release Language (ORWH)**

“This comprehensive dataset, which will be **disaggregated by sex**, racial/ethnic group, and socioeconomic status, will allow researchers to address numerous questions related to adolescent brain development” … [including] … “What brain pathways are associated with the onset and progression of mental health disorders and do these pathways differ by sex?”

**https://abcdstudy.org/index.html**
ORWH has signed onto recent BRAIN Initiative FOAs to emphasize sex/gender-based reporting

• Aims to revolutionize our understanding of brain function by accelerating development & application of innovative technologies

• Recent FOAs:
  • RFA-NS-18-008: Exploratory Team-Research BRAIN Circuit Programs–eTeamBCP (U01)
  • RFA-NS-18-009: Targeted BRAIN Circuits Projects – TargetedBCP (R01)
  • RFA-NS-18-010: Exploratory Research Opportunities Using Invasive Neural Recording and Stimulating Technologies in the Human Brain (U01)
  • RFA-NS-18-014: Targeted BRAIN Circuits Planning Projects–TargetedBCPP (R34)

• Participating ICOs
  • NINDS
  • NEI
  • NIA
  • NIAAA
  • NIBIB
  • NICHD
  • NIDCD
  • NIDA
  • NIMH
  • NCCIH
  • OBSSR
  • ORWH

For more info on the BRAIN Initiative® visit www.braininitiative.nih.gov

FOA Language

“Applications must ... comply with NIH policy on reporting disaggregated sex-based data and other consideration of sex as a biological variable ...”

“Have the investigators presented adequate plans to address relevant biological variables, such as sex, for studies in vertebrate animals or human subjects?”
Teenagers exhibit notable sex/gender differences in concussion

- Incidence of sports-related concussions in high schoolers is increasing.
- Girls soccer shows highest overall proportion of concussions for boys & girls, among all sports.
- Baseline & early post-concussion symptoms are higher in girls.
- Longer-term recovery trends are similar between boys & girls.

Understanding TBI in Women Workshop
Dec. 18-19, 2017, Natcher Conference Center, NIH Main Campus

- **Sponsored by** NINDS, in collaboration with NCMRR/NICHD, ORWH, CNRM, and DVBIC

- **Keynote:** *Identifying Sex Differences in Research: What Are the Challenges?*
  - Sex Diffs. in TBI across the Lifespan
  - TBI as a Consequence of Intimate Partner Violence
  - Lost in Translation: Sex Diff. in Pre-clinical & Clinical Research
  - Sex Diffs. following Sports-Related TBI
  - Sex Diffs. in TBI among Service Members & Veterans
  - Sex Diffs. in Dx, Prognosis & Management of TBI
  - Prioritization of Research Needs

Margaret McCarthy, PhD
Chair, Dept. of Pharmacology,
U. MD School of Medicine

Speakers:
21 women
11 men

Report available soon

Videocasts available at https://meetings.ninds.nih.gov/Home/General/16753
NHLBI, ORWH & NCATS (ORDR) collaboration inspires webinar on sex & gender differences in asthma, COPD & ILD

**Female Sex & Gender in Lung/Sleep Health & Disease:**
Increased Understanding of Basic Biological, Pathophysiological & Behavioral Mechanisms Leading to Better Health for Female Patients with Lung Disease

Sep. 18-19, 2017, Two Rockledge Centre, Bethesda, MD

**Office of Rare Diseases Research**

Deborah Clegg, PhD
Cedars-Sinai

Sep. 18 Keynote Address:
Sex and Gender: Critical Variables in Pre-Clinical and Clinical Medical Research

Marianne J. Legato, MD, PhD, FACP
Foundation for Gender-Specific Med.

Sep. 19 Keynote Address:
Consideration of Sex Differences in Medicine to Improve Health Care and Patient Outcomes

**WOMEN IN PULMONARY WEBINAR:**

**Sex and Gender Differences in Treating Asthma, COPD, and ILD**

Monday, April 23
2 pm to 3 pm CT

Register for free at chestfoundation.org/webinars

**PRESENTERS:** Dr. Sonye Danoff | Dr. Dawn Demeo | Dr. Joe Zein

**MODERATOR:** Dr. Ghada Bourjeily
Outline

• Collaborations with ICOs
• Research Programs
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• Other ORWH Activities
ORWH Funding History & FY17 Extramural Award Profile

Data not adjusted for inflation.

FY17 Extramural Awards
(as % of Extramural Budget)

- BIRCWH (24%)
- Other IC Co-Funds (26%)
- R56 (11%)
- SCOR (18%)
- U3 (5%)
- Sex & Gender Admin. Supp. (16%)
ORWH FY17 Extramural Award Investments by ICO

Plot excludes Contract R&D Awards.

NICHD BIRCWH Awards, $7.15M
ORWH FY17 Extramural Award Investments by ICO

Plot excludes Contract R&D Awards and BIRCWH Awards.
<table>
<thead>
<tr>
<th>Program</th>
<th>Number of ICs</th>
<th>List of Collaborating ICs</th>
<th>ORWH Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOR</td>
<td>6</td>
<td>NIDA; NICHD; NIDDK; NIA; NIMH; NIAMS</td>
<td>$5,635,967</td>
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<td>Sex/Gender Admin. Supp.</td>
<td>17</td>
<td>List provided on previous slide.</td>
<td>$4,972,232</td>
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<td>R56</td>
<td>5</td>
<td>NCI; NICHD; NIDA; NHLBI; NIDCR</td>
<td>$3,298,936</td>
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<td>U3 Admin. Supp.</td>
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<td>NICHD; NIA; NIAMS; NIDA; NIAID; NIMHD; NIGMS; NHLBI</td>
<td>$1,521,821</td>
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<tr>
<td>Other IC Co-funds</td>
<td>16</td>
<td>NIDDK; NICHD; NIAID; NCCIH; NHGRI; NIBIB; FIC; NIA; OD; NIDCR; NIDA; NHLBI; NIMH; NIEHS; NCI; NIGMS</td>
<td>$8,082,136</td>
</tr>
</tbody>
</table>
NIH’s only center grant on sex differences research gets enhanced

- FY12–FY17: 11 SCOR Awards across 6 ICs
- FY18: Specialized Ctrs. of Research Excellence (SCORE) on Sex Diffs.
- New: P50 → U54
  - Career Enhancement Core (CEC) now required — to meet career enhancement needs of translational science in study of sex diffs.
  - Each SCORE will serve as a vital hub for education & dissemination of sex-based research methods & best practices
  - Coop. agreement between ORWH & ICs to provide leadership in the dev’t. of standards & policies for sex diffs. research
- FY18 IC Participation: NIDDK, NIDA, NIEHS, NIMH, NIAAA, NIA
- New FOA: RFA-OD-18-004 (Applications due April 23, 2018)

Scott Hultgren, PhD
Helen L. Stoever Professor of Molecular Microbiology, Washington University in St. Louis School of Medicine

Later Today: Urinary Tract Infection: Complexity Results from Diversity at the Bacterial-Host Interface
U3 Administrative Supplement: Research on Understudied, Underrepresented, and Underreported Populations of Women

- 1 year of supplemental funding
- FY17
  - Received 27 applications from 11 ICs
  - $1.7 M funded for a total of 15 U3 applications
- FY18
  - 15 ICs signed on
  - Awards will be made for up to $200K total costs
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SABV Policy Implementation Roadmap

**SABV RFI**

**Trans-NIH SABV Working Group**

**Preclinical Methods Workshop**

**21st Century Cures Act**

**Resource Development**

**NIH SABV Workshop**

**Rigor & Reproducibility mailbox**

NOT-OD-15-103: Rigor


SABV goes into effect Jan. 25, 2016

SABV Roadshows at ICOs

NIH Governance Committees

RPC, EAWG

EPMC, PLC

Enhancing the Health of Women and Men

New FAQs

More to come
ORWH leads the development of SABV resources & activities

- ORWH develops SABV application tools:
  - SABV Checklist (for researchers)
- ORWH advances SABV dissemination:
  - Re-launched the Women’s Health Research Seminar Series
  - Founded the NIH Sex & Gender in Health & Disease SIG
  - Gave several scientific presentations
ORWH partners with Common Fund to host the first SABV Workshop
October 26 - 27, 2017

• Keynote speaker—Dr. Virginia Miller: Sex-Specific Risk for Cardiovascular Dysfunction and Cognitive Decline

• Sessions:
  - Poster Session
  - Sex Diffs. in Brain Function & Behavior
  - How Sex Impacts Our Interactions with External Influences
  - Sex Differences in Animal Models
  - Sex Differences in Gene Expression
  - Panel Discussion on Applying SABV

• Videocasts available at:
  - Day 1: https://videocast.nih.gov/summary.asp?Live=26050&bhcp=1
Adjusting Our Course into the Future

Paris Watson
Legislative Policy Analyst, ORWH

Legislative & 21st Century Cures Act Update

- 21st Century Cures Act
- Advances in science & tech.
- Evolving public health needs
Maternal mortality is rising in the U.S. as it declines in our peer countries.

Deaths per 100,000 live births

Year

An Officer’s Story

- Dr. Shalon Irving, CDC Epidemiologist
- Lieutenant commander
- Commissioned Corps of the U.S. Public Health Service
- Two master’s degrees
- Dual-subject Ph.D.

Mothers & newborns are suffering from the opioid crisis


New ORWH Vision

Sex and gender influences are integrated into the biomedical research enterprise; every woman receives evidence-based disease prevention and treatment tailored to her own needs, circumstances, and goals; and women in science reach their full potential.

Margaret Bevans, PhD, RN
Assoc. Director, Clinical Research, ORWH

2019-2023 Trans-NIH Strategic Plan for Research on Women’s Health Update
Outline

- Collaborations with ICOs
- Research Programs
- SABV Update
- Adjusting Our Course
- Women in Biomedical Careers
- Other ORWH Activities
Co-chairs: Francis Collins, MD, PhD and Janine Clayton, MD

Funded the Causal Factors & Interventions RFA
- 14 research grants investigating a range of obstacles facing women at all stages of the career pipeline
- $16.8M over 4 yrs., with support from 11 ICs & 4 OD Offices
- Well over 100 papers published

Work-life integration policies

Women of Color Research Network (WoCRn)
- 4 regional chapters: DC, IN, MD, NC
- Over 500 members and growing
- https://womeninscience.nih.gov/women-of-color/

Shirley Malcom, PhD, Director of the Science, Technology, Engineering, and Mathematics Equity Achievement (SEA) Change Program, addressed the NIH Working Group on Women in Biomedical Careers on Jan. 17, 2018.

For more information, visit womeninscience.nih.gov
Women in science offer career advice in a growing video series

Yvonne C. Collins, MD, is a Gynecologic Oncologist with AIM Specialty Health, where she serves as a Physician Team Lead.

Eve Higginbotham, MD, is the inaugural Vice Dean for Inclusion and Diversity at the University of Pennsylvania.

Janine Austin Clayton, MD, Assoc. Director for Research on Women's Health and Director of ORWH at the NIH, is the architect of the NIH policy requiring scientists to consider sex as a biological variable across the research spectrum.

Keri F. Allen, MD, is a 3rd-year ophthalmology resident at Palmetto Health University of South Carolina.

and 7 more videos

Available at https://womeninscience.nih.gov/resources/pearls_of_wisdom.asp
3rd Annual NIH Vivian Pinn Symposium will emphasize “Leveraging the Network to Advance Women in Science”

Wed., May 16, 2018, 1:00-4:00 pm
NIH Main Campus, Lister Hill Auditorium

- Vivian W. Pinn, MD
- Kay Lund, PhD, Director, NIH Division of Biomedical Research Workforce Programs: Advancing Women in the NIH Biomedical Research Workforce through Mentoring
- Daniel Ford, MD, PhD, Director, Johns Hopkins Institute for Clinical & Translational Research: Achieving Advanced Leadership Positions for Women in an Academic Setting
- Rachelle Heller, PhD, Assoc. Provost, GWU School of Engineering & Applied Science: Achieving Success for Women in STEM
- Janet Bandows Koster, MBA, CEO, AWIS: Moderated Panel Discussion
- Catalytic Connections: “speed” networking
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ORWH staff publish three new papers


Investment in stakeholder engagement has yielded significant returns

- Message amplification
- Enhanced input
- Targeted outreach
- Strategic partnerships
ORWH launches its newsletter, “Women’s Health In Focus at NIH”

Feature Story for July, 2018: Microbiome & Women’s Health

• Director’s Corner
• Feature Story
• SABV Column
• In the Journals

(Montage: Jonathan Bailey, NHGRI. Photo credits [clockwise from top-left]: Tom Schmidt; A. Earl, Broad Institute/MIT; Tom Schmidt; J.H. Carr, CDC)

To subscribe, send an email to ORWHINFO@mail.nih.gov with the subject line “Subscribe me to ORWH newsletter”
ORWH re-designs its website

Redesigned ORWH Website

The Office of Research on Women’s Health is relaunching its website at https://nih.gov/women.

The new site features:

- New research reports, such as Improving the Health of Women in the United States;
- Videos on hot topics such as Progress on the Inclusion of Women in Clinical Research;
- The Women of Color Health Data Book;
- The A to Z Guide on Sex and Gender Influences on Health; and
- Online courses on sex and gender in health disease that are free and open to the public.

The website places the latest information on women’s health and women’s health research at the fingertips of consumers, health providers, researchers, and media. Access includes multiple points of entry across all platforms, including desktops, tablets, and mobile devices.

Visit us at www.nih.gov/women
ORWH amplifies its messaging via social media

**Twitter Overview: March, 2017 – March, 2018**
- 2,555 net followers gained

<table>
<thead>
<tr>
<th>Total Followers</th>
<th>Follower Increase</th>
<th>Tweets Sent</th>
<th>Organic Impressions</th>
<th>Engagements</th>
<th>Retweets</th>
</tr>
</thead>
<tbody>
<tr>
<td>16,179</td>
<td>18.8%</td>
<td>925</td>
<td>2,336,252</td>
<td>23,920</td>
<td>4,665</td>
</tr>
</tbody>
</table>

**Facebook Overview: March, 2017 – March, 2018**
- 712 net likes gained

<table>
<thead>
<tr>
<th>Total Fans</th>
<th>Fan Increase</th>
<th>Posts sent</th>
<th>Impressions</th>
<th>Engagements</th>
<th>Link Clicks</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,471</td>
<td>1.55%</td>
<td>806</td>
<td>570,937</td>
<td>3,927</td>
<td>1,498</td>
</tr>
</tbody>
</table>

- 610 LinkedIn followers for Clayton; 583 members for WoCRn as of April 2, 2018
- 26 Mainstream media mentions between March, 2017 and March, 2018
- ORWH tweet about NIH Vivian W. Pinn Symposium retweeted by Barbra Streisand
ORWH Pre-Conference Symposium:

Addressing Health Challenges of Women Across the Life Course: Novel & Emerging Research

May 3, 2018, 1:00-5:00 pm
Crystal Gateway Marriott, Arlington, VA

It’s not too late to register!

To register, visit us at www.nih.gov/women & follow the May 3rd link under “Upcoming Events”

2018 Women’s Health Conference begins May 4th
THANK YOU