



aps
women's health
research initiative

AMERICAN PHYSIOLOGICAL SOCIETY

NEW TRENDS IN SEX DIFFERENCES AND WOMEN'S HEALTH RESEARCH

October 23–25, 2025
New Orleans, Louisiana

#APSSexDiff2025

physiology.org/APSSexDiff2025

APS CONFERENCE

New Trends in Sex Differences and Women's Health Research

October 23–25, 2025
New Orleans, Louisiana

Conference Organizers:



Licy L. Yanes Cardozo, MD
University of Mississippi
Medical Center



Heddwen Brooks, PhD
Tulane University
School of Medicine



Stella Gouloupoulou, PhD
Loma Linda University

Host:



Organizing Committee:

Helen E. Collins, PhD, FAHA
University of Louisville

Mark W. Cunningham Jr., PhD, MBA
University of North Texas Health
Science Center

Rebecca L. Cunningham, PhD
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Science Center

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Vanderbilt University Medical Center

Brant E. Isakson, PhD, FAPS
University of Virginia School of Medicine

Julie K. Freed MD, PhD
Medical College of Wisconsin

Babbette LaMarca, PhD
University of Mississippi Medical Center

Benard O. Ogola, PhD
Medical College of Georgia at Augusta
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University of Mississippi Medical Center

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University of Mississippi Medical Center

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Georgetown University

Liliya M. Yamaleyeva, MD, MS, FAHA
Wake Forest University School of
Medicine

Kristen Zuloaga, PhD
Albany Medical College

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Location

Tulane University School of Medicine
1430 Tulane Ave, New Orleans, Louisiana 70112
504.588.5800



On-site Internet

Connect by selecting **Tulane Guest** from your wireless network option on your computer, mobile or tablet device. Fill in the required fields on the pop-up authentication page. Select “Login” to join for 24 hours. Guests are not limited to the number of sessions they may access.



Registration Details

Your registration for this conference includes entry into all scientific and poster sessions, all meals during the conference, online access to the submitted abstracts and a program book. Abstracts are available online in a password-protected section of the APS website and more details will be emailed to registrants.



Photography or Video Recording

Photo or video capture of any scientific presentation in whole or part is expressly prohibited. Recording or taking photography of another person without their explicit permission is prohibited. Individuals observed photographing or videotaping any presentation will be asked to leave the conference immediately and will forfeit their registration fee.



Code of Conduct

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If you witness or experience conduct that violates the Code of Conduct, you may report it confidentially at physiology.ethicspoint.com or by calling 844.235.9954



Program Objectives

The objectives of the 2025 New Trends in Sex Differences and Women's Health Research conference are to:

- Gather clinical and basic researchers with expertise in the role of sex hormones, sex chromosomes and sex differences in various physiological and pathophysiological conditions affecting cardiovascular and pulmonary health with an emphasis on women's health.
- Convene nationally and internationally renowned scientists to exchange ideas, develop scientific networks, promote collaboration, and discuss recent research developments in women's health and sex differences research.
- Inspire the new generation of young scientists about women's health research and sex differences medicine. The meeting will strongly emphasize the trainee's scientific career, with activities at multiple levels, including designated trainee sessions, posters and oral presentations and workshops.

Schedule at a Glance

NEW TRENDS IN SEX DIFFERENCES AND WOMEN'S HEALTH RESEARCH

Thursday, October 23

All events are held in the Tidewater Building unless otherwise noted.

5–8 p.m.	Registration Open
7–8 p.m.	Plenary Lecture: Sex Differences in Cardiac Remodeling in Health and Diseases Chair: Stella Gouloupoulou, MS, PhD, Loma Linda University, California Speaker: Leslie Leinwand, PhD, University of Colorado Boulder
8–10 p.m.	Welcome Reception and Networking Event at New Orleans Bioinnovation Center

Friday, October 24

All events are held in the Tidewater Building unless otherwise noted.

7:15–7:45 a.m.	Continental Breakfast
7:50–8 a.m.	Welcome Remarks
8–11:15 a.m.	Session 1: Cardiovascular Risk and Women's Health Across the Lifespan Chairs: Carolyn Damilola Ekpruke, PhD, Indiana University Bloomington Frank Kiyimba, PhD, Vanderbilt University Medical Center, Tennessee
8–8:30 a.m.	Sex Differences in Stroke Speaker: Miranda Good, PhD, Tufts University, Massachusetts
8:30–9 a.m.	Cardiovascular Risk in Endometriosis Speaker: TBD
9–9:30 a.m.	Imaging the Invisible: Advancing Women's Health Through Functional and Molecular Imaging of Reproductive Physiology Speaker: Carolyn L. Bayer, PhD, Tulane University, Louisiana
9:30–9:45 a.m.	Coffee Break
9:45–10:15 a.m.	Menopause, Exercise and Cardiometabolic Risks Speaker: Megan Wenner, PhD, University of Delaware
10:15–10:45 a.m.	Sex Differences in Obesity Speaker: Eric Belin De Chantèmele, DSc, Augusta University, Georgia
10:45–11:15 a.m.	PTSD in Women and Cardiovascular Disease Risk Speaker: Ida-Arlaine Fonkoue, MD, PhD, University of Minnesota
11:15 a.m.–12:30 p.m.	Networking Lunch
12:30–2 p.m.	Session 2: Sex Differences and Women's Health: Kidney in Cardiovascular Diseases Chairs: Brant E. Isakson, PhD, FAPS, University of Virginia Naoki Harada, PhD, Osaka Metropolitan University, Japan
12:30–1 p.m.	Sex Differences in Kidney Diseases in Women: Testosterone vs Estrogen Speaker: Sofia Ahmed, MD, University of Alberta, Canada
1–1:30 p.m.	Sex Differences in Kidney Disease and Hypertension Speaker: Heddwen L. Brooks, PhD, Tulane University, Louisiana
1:30–2 p.m.	Sex Differences in Renal Endothelial Dysfunction and Inflammation Speaker: Justin Van Beusecum, PhD, Medical University of South Carolina
2–2:15 p.m.	Coffee Break

2:15–3:15 p.m.	Fast Forward Science: Trainee and Early Investigator Oral Presentations Chairs: Eman Gohar, PhD, FAHA, Vanderbilt University Medical Center, Tennessee Whitley Atkins, PhD, University of New Mexico Estrogen Receptor β Mediates Allergen-Induced Airway Hyperresponsiveness: Insights from Knockout Mouse Models 2:15–2:25 p.m. Speaker: Carolyn Ekpruke, PhD, Indiana University Bloomington Pregnant Women of Advanced Maternal Age Have a Decreased Cutaneous Microvascular Vasodilation Response to Local Heating Compared to Younger Pregnant Women 2:25–2:35 p.m. Speaker: Ruda Lee, MS, University of Iowa Sex and Ovarian Hormones Attenuate Right-ventricular Remodeling in Pulmonary Arterial Hypertension 2:35–2:45 p.m. Speaker: Becky Hardie, University of California San Diego Minocycline Improves Survival and Modulates Inflammation in SR-BI KO ApoE61^{h/h} Mice with Advanced Atherosclerosis, Showing Sex-specific Effects Independent of Cholesterol Metabolism 2:45–2:55 p.m. Speaker: Liena Bravo, Pontificia Universidad Católica De Chile Sex Differences in Cardiac Fibroblast Response to Transient Angiotensin-converting Enzyme Inhibition 2:55–3:05 p.m. Speaker: Ashton Jorgensen, PhD, University of Arizona Vascular β- and α-adrenergic Receptor Modulation of Hypoxic Vasodilation is Sex Specific 3:05–3:15 p.m. Speaker: Natasha Boyes, DPhil, PhD, University of Missouri
3:15–4:15 p.m.	Rising Stars in Sex Differences and Women's Health Chairs: Jane F. Reckelhoff, PhD, FAPS, University of Mississippi Medical Center Kelsey Schwartz, PhD, University of Iowa Late-onset Postmenopausal Women Exhibit Attenuated Aortic Stiffening: Role of Intrinsic Wall Stiffness, the Circulating Milieu and Mitochondrial Oxidative Stress 3:15–3:30 p.m. Speaker: Sanna Darvish, BS, MS, University of Colorado Boulder Maternal Obesity and Gestational Diabetes Mellitus Influence Fetal Growth in a Sex-specific Manner Among Black Women 3:30–3:45 p.m. Speaker: Chloe Ward, University of Mississippi Medical Center Interactive Effects of Sex and Age on Central Sodium Sensing in the Human Brain 3:45–4 p.m. Speaker: Nathan Romberger, PhD, University of Delaware Excessive Hypercholesterolemia in Pregnancy Induces an Angiogenic Imbalance That Is Improved by Low-dose Aspirin Treatment in Rats 4–4:15 p.m. Speaker: Amanda de Oliveira, PhD, University of Alberta, Canada
4:15–4:30 p.m.	Break
4:30–5:30 p.m.	Workshop: Career Development for Industry and Biotech, "Entrepreneurism for the Scientist" Chair: Elaine Hamm, PhD, Cadenza Bio, Oklahoma
5:30–7:30 p.m.	Poster Presentations and Meet the APS Editors Networking Reception at New Orleans Bioinnovation Center Chair: Heddwyn Brooks, PhD, Tulane University, <i>American Journal of Physiology-Renal Physiology Editor-in-Chief</i> Speaker: TBD

Schedule at a Glance

NEW TRENDS IN SEX DIFFERENCES AND WOMEN'S HEALTH RESEARCH

Saturday, October 25

All events are held in the Tidewater Building unless otherwise noted.

7:15–7:45 a.m.	Continental Breakfast
7:50–8 a.m.	Housekeeping Announcements
8–8:50 a.m.	Plenary Lecture: Sex-specific Mechanisms in Relaying Stress to the Developing Fetal Brain Chair: Heddwen L. Brooks, PhD, Tulane University, Louisiana Speaker: Tracy L. Bale, PhD, University of Colorado Anschutz Medical Campus
9–11:45 a.m.	Session 3: Sex Differences and Women's Health: Interorgan Communication Chairs: Helen E. Collins, PhD, University of Louisville, Kentucky Manar A. Eissa, PhD, University of Mississippi Medical Center
9–9:30 a.m.	Sex Differences in Microbiome Speaker: Jennifer L. Pluznick, PhD, John Hopkins University School of Medicine, Maryland
9:30–10 a.m.	Asthma and Sex Differences Speaker: Julie Ledford, PhD, University of Arizona
10–10:30 a.m.	Hemodynamic Sex Differences with Pannexin1: from the Vasculature to the Kidney Speaker: Brant E. Isakson, PhD, FAPS, University of Virginia
10:30–10:45 a.m.	Coffee Break
10:45–11:15 a.m.	Sex Differences in Infectious Diseases and Immune Response Speaker: James B. McLachlan, PhD, Tulane University, Louisiana
11:15–11:45 a.m.	Endothelial Dysfunction and Alzheimer's Diseases in Females Speaker: Camilla Wenceslau, PhD, University of South Carolina
11:45 a.m.–1 p.m.	Networking Lunch
1–3:15 p.m.	Session 4: Cardiovascular Risk in Women and Maternal Health Complications Chairs: John Henry Dasinger, PhD, Tulane University, Louisiana Tasha Reiter, University of British Columbia, Canada
1–1:30 p.m.	Preeclampsia and Cardiovascular Diseases Speaker: Lorena M. Amaral, PhD, University of Mississippi Medical Center
1:30–2 p.m.	Vascular Mechanisms Underlying Preeclampsia Speaker: Jessica Faulkner, PhD, Augusta University, Georgia
2–2:30 p.m.	Preeclampsia and Long-term Cerebrovascular Health Speaker: Liliya Yamaleyeva, MD, MS, FAHA, Wake Forest University
2:30–2:45 p.m.	Coffee Break
2:45–3:15 p.m.	Troubles Multiplied: Chronic Pain in Intimate Partner Violence Shapes Sex Differences in Cardiovascular Disease Risk Speaker: Glen Pyle, PhD, University of Guelph, Canada

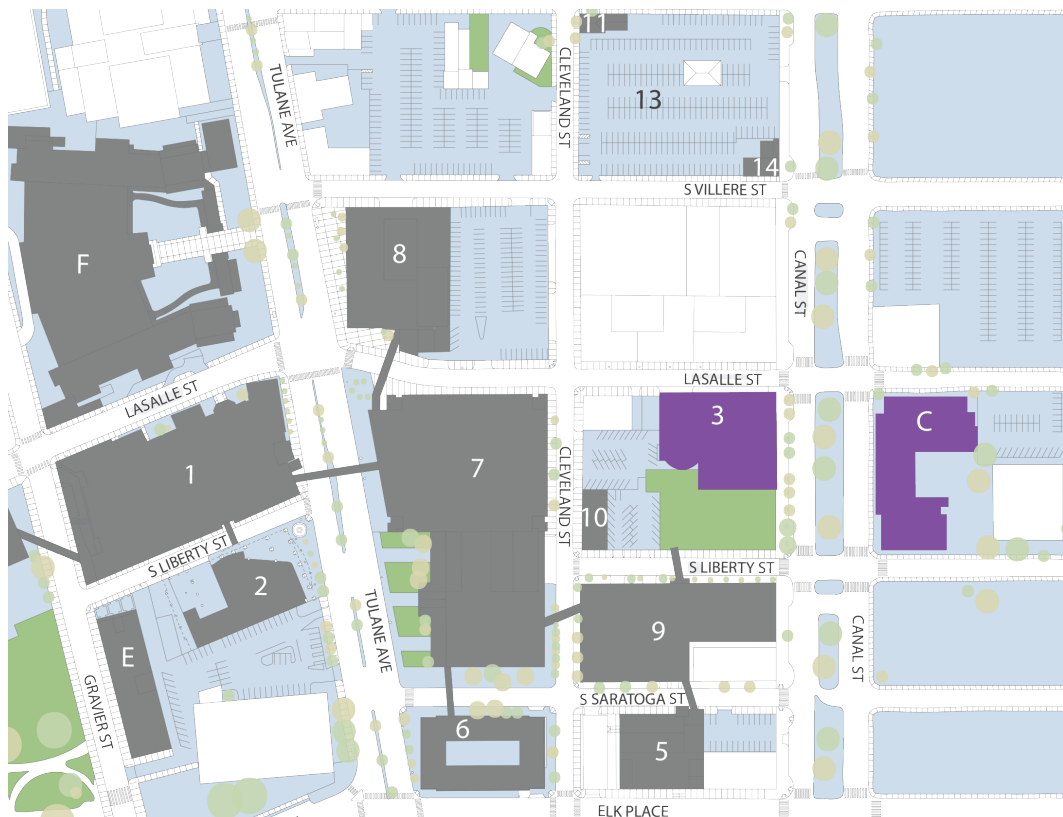
Schedule at a Glance

NEW TRENDS IN SEX DIFFERENCES AND WOMEN'S HEALTH RESEARCH

3:15–4:15 p.m.	Fast Forward Science: Trainee and Early Investigator Oral Presentations Chairs: Liliya M. Yamaleyeva, MD, MS, FAHA, Wake Forest University School of Medicine Hannah Cabre, PhD, Pennington Biomedical Research Center The Zinc Link: Sex Differences in Hypertension and Kidney Injury 3:15–3:25 p.m. Speaker: Alexis Bailes, Wright State University, Ohio Sex-dependent Injury in Aged Megalin (Lrp2) Knockout Mice 3:25–3:35 p.m. Speaker: Elynna Youm, University of Pittsburgh Sex-specific Impacts of Diet-Induced Obesity at Midlife on Cognition, Cerebral Perfusion and Metabolism in Mice 3:35–3:45 p.m. Speaker: Annika Matthiesen, Medical University of South Carolina Sex Differences in the Molecular, Cellular and Behavioral Underpinnings of Fat Taste 3:45–3:55 p.m. Speaker: Emeline Masterson, BMS, BS, MS, PhD, University of Central Florida Molecular Mechanisms of Insulin Signaling in Insulin-target Tissues in a Rat Model of Polycystic Ovary Syndrome 3:55–4:05 p.m. Speaker: Ahmed Abdelhameed, University of Mississippi Medical Center Estradiol Improves Neurovascular Coupling in Young Female Mice 4:05–4:15 p.m. Speaker: Chase Richard, Tulane University, Louisiana
4:15–4:45 p.m.	Session 5: Biological Basis for Sex Differences in Motor Performance Speaker: Sandra Hunter, PhD, University of Michigan
4:45–5 p.m.	Break
5–6 p.m.	Panel Discussion—Opportunities for Women's Health Research Speakers: Xenia T. Tigno, PhD, National Institutes of Health Office of Research on Women's Health, Maryland Tonette Krousel-Wood, MD, MSPH, FACPM, FAHA, Tulane University School of Public Health & Tropical Medicine, Louisiana Jane F. Reckelhoff, PhD, FAPS, University of Mississippi Medical Center
6–9 p.m.	Posters Presentation and NIH Career Advice Reception and Closing Remarks from Conference Organizers at New Orleans Bioinnovation Center

Map/Floor Plan

NEW TRENDS IN SEX DIFFERENCES AND WOMEN'S HEALTH RESEARCH



- 1 - HUTCHINSON MEMORIAL BUILDING
1430 TULANE AVENUE
- 2 - J. BENNETT JOHNSTON BUILDING
1324 TULANE AVENUE
- 3 - TIDEWATER BUILDING
1440 CANAL STREET
- 4 - LABORATORY FOR ENVIRONMENTAL RESEARCH
1700 PERDIDO STREET
- 5 - ELKS PLACE
127 ELK PLACE
- 6 - DEMING PAVILION
1227 TULANE AVENUE *physical address, not mailing
- 7 - TULANE MEDICAL CENTER
1415 TULANE AVENUE
- 8 - LASALLE PARKING GARAGE
1532 TULANE AVENUE
- 9 - TULANE CANCER CENTER
AND SARATOGA PARKING GARAGE
150 SOUTH LIBERTY STREET
- 10 - MCMAHON BUILDING
143 SOUTH LIBERTY STREET
- 11 - LAFACADIO HEARN BUILDING
1565 CLEVELAND AVENUE
- 12 - MURPHY BUILDING AND GARAGE
131 SOUTH ROBERTSON STREET
- 13 - PARKING LOT
1540 CANAL STREET
- 14 - 1540 CANAL BUILDING

AFFILIATED BUILDINGS

- A - H.E.A.L. GARAGE
300 LASALLE STREET
- B - 1555 POYDRAS
1555 POYDRAS STREET
- C - NEW ORLEANS BIO-INNOVATION CENTER (NOBIC)
1441 CANAL STREET
- D - LOUISIANA CANCER RESEARCH CENTER (LCRC)
1700 TULANE AVENUE
- E - THIRTEEN15
1315 GRAVIER STREET
- F - CHARITY REDEVELOPMENT

TULANE UNIVERSITY DOWNTOWN CAMPUS

View the full
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Tulane University
campus map.



SCAN ME







Share Your Discoveries

Present your work at the 2026 American Physiology Summit (#APS2026) to gain valuable feedback and make vital connections.

Participate in our lively poster receptions, where your peers are sharing discoveries on the cutting edge of bioscience.

We will begin accepting abstracts Oct. 1, 2025. Submit your research and apply for awards at physiology.org/APS2026.

Call for Abstracts
Oct. 1–Dec. 3, 2025

Early Registration:
Dec. 8, 2025–Jan. 30, 2026

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**APRIL 23–26, 2026
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