

# Sex Differences Across the Lifespan: *A Focus on Metabolism*



Learn and connect to answer the next key questions in women's health research.

National Conference + Poster Presentation

**October 12-14, 2022**

**THE BROADMOOR HOTEL**

**Colorado Springs, Colorado**

Presented by



**Ludeman Family Center for Women's Health Research**  
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

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| <b>Wednesday, October 12, 2022</b>  |   |  |
| 11:30 – 12:30PM   | Community Session Check-in  | WEST BALLROOM  |
| COMMUNITY SESSION EVENT   |   |  |
| 12:30 – 2:30PM  | <b>COMMUNITY SESSION LUNCH:</b><br><b>Making a Difference in Women's Health: Journeys in Science</b><br><br>CHAIR:<br><b>Laura Brown, MD</b> , University of Colorado School of Medicine<br><br><br>SPEAKERS:<br><i>(15-minute presentations followed by a 15-minute Q&amp;A)</i><br><b>Anne Libby, PhD</b> , University of Colorado School of Medicine<br><i>Mentoring and Educating the Next Generation of Scientists</i><br><br><b>Wendy Kohrt, PhD</b> , University of Colorado School of Medicine<br><i>MoTrPAC – Finding out Why Exercise Is Important</i><br><br><b>Kent Thornburg, PhD</b> , Oregon Health & Science University<br><br><b>Cara Tannenbaum, MD, MSc</b> , Canadian Institutes of Health Research<br><i>Planning for Impact</i><br><br>Plated lunch | WEST BALLROOM  |
| 4:00 – 6:00PM   | Conference Check-in   | WEST BALLROOM FOYER                                      |
| 6:00 – 7:00PM   | COCKTAIL RECEPTION & POSTER PREVIEW<br><i>Hors d'oeuvres and cocktails</i>  | WEST TERRACE<br><i>(Rain location: West Tower Lobby)</i> |
| OPENING DINNER  |   |  |
| 7:00PM – 9:00PM   | <b>WELCOME TO THE 2022 NATIONAL CONFERENCE</b><br><b>Judy Regensteiner, PhD</b> , University of Colorado School of Medicine<br><br><b>KEYNOTE SPEAKER:</b><br><b>Sarah Temkin, MD</b> , Associate Director for Clinical Research, NIH Office of Research on Women's Health<br><i>Sex and Gender Considerations Relevant to Health of Women: Perspectives from the NIH Office of Research on Women's Health</i>  | WEST BALLROOM FOYER                                      |
| <b>Thursday, October 13, 2022</b>   |   |  |
| 7:00AM  | Breakfast opens   | WEST BALLROOM FOYER                                      |
| 7:30AM – 9:35AM   | <b>Scientific Session I</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>  | WEST BALLROOM  |
| To E or not to E: Metabolic Actions of Estrogens  |   |  |
| CHAIR:<br><b>Wendy M. Kohrt, PhD</b> , University of Colorado School of Medicine<br><br>SPEAKERS:<br><b>T. Rajendra Kumar, PhD</b> , University of Colorado School of Medicine<br><i>Estrogen-Independent Actions of FSH in Extra-Gonadal Tissues</i><br><b>Edward Melanson, PhD</b> , University of Colorado School of Medicine<br><i>Estrogen and Energy Expenditure: Stoking the Flames of Thermogenesis</i><br><b>Dawn Lowe, PhD</b> , University of Minnesota Medical School<br><i>Disrupted Estradiol-estrogen Receptor Signaling in Skeletal Muscle: Myosin and Beyond</i><br><b>Wendy Kohrt, PhD</b> , University of Colorado School of Medicine<br><br>SPEAKER Q & A PANEL<br><i>(Five minute data blitz presentations)</i><br><br>Q & A PANEL   |   |  |
| 9:35AM—9:55AM   | Break   |  |
| 9:55AM – 12:00PM  | <b>Scientific Session II</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>   | WEST BALLROOM  |
| Sex Differences in Cardiovascular Disease – Implications for Women and Policy   |   |  |
| CHAIR:<br><b>Linda Peterson, MD</b> , Washington University School of Medicine<br><br>SPEAKERS:<br><b>Mary Norine Walsh, MD, MACC</b> , St. Vincent Heart Center<br><b>Linda Peterson, MD</b> , Washington University School of Medicine<br><i>Sex Differences in Cardiac Rehabilitation and Intensive Cardiac Rehabilitation</i><br><b>Nanette Wenger, MD</b> , Emory University School of Medicine<br><b>Susan Joseph, MD</b> , University of Maryland Medical Center<br><br>SPEAKER Q & A PANEL<br><i>(Five minute data blitz presentations)</i><br><br>Q & A PANEL  |   |  |
| 12:00PM – 12:45PM   | Break   |  |
| 12:45PM – 1:45PM  | Lunch Panel (Lunch buffet)  | WEST BALLROOM FOYER                                      |
| Moving into the Future: New Strategies in Women's Health Research   |   |  |
| CHAIR AND MODERATOR:<br><b>Amy Huebschmann, MD</b> , University of Colorado School of Medicine<br><br>PANELISTS:<br><b>Nanette Wenger, MD</b> , Emory University School of Medicine<br><b>Cara Tannenbaum, MD, MSc</b> , Canadian Institutes of Health Research<br><b>David Kao, MD</b> , University of Colorado School of Medicine<br><br>SPEAKER Q & A PANEL  |   |  |
| 1:45PM – 2:00PM   | Break   |  |
| 2:00PM—4:05PM   | <b>Scientific Session III</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>  | WEST BALLROOM  |
| Sex Differences in Brain, Obesity and Metabolic Dysregulation across the Lifespan   |   |  |
| CHAIRS:<br><b>Jill Goldstein, PhD</b> , Harvard Medical School<br><b>C. Neill Epperson, MD</b> , University of Colorado School of Medicine<br><br>SPEAKERS:<br><b>Taben Hale, PhD</b> , University of Arizona College of Medicine<br><i>Sex Differences in the Developmental Programming of Autonomic Dysregulation</i><br><b>Kristina Legget, PhD, MA</b> , University of Colorado School of Medicine<br><i>Sex Differences in the Neuronal Mechanisms of Food Intake Behavior</i><br><b>Andrea Edlow, MD, MSc</b> , Harvard Medical School<br><i>Maternal Obesity and Sex Differences in Fetal Brain and Placental Programming</i><br><br>SPEAKER Q&A PANEL<br><i>(Five minute data blitz presentations)</i><br><br>Q & A PANEL   |   |  |
| 4:05PM – 5:30PM   | <b>Judged Poster Session &amp; Reception</b><br><i>Hors d'oeuvres and cocktails</i>   | WEST BALLROOM  |
| 5:30PM – 7:30PM   | Casual Dinner   | POMPEIIAN  |
| <b>Friday, October 14, 2022</b>   |   |  |
| 7:00AM  | Breakfast opens   | WEST BALLROOM FOYER                                      |
| 7:30AM – 8:15AM   | KEYNOTE ADDRESS:<br><b>Impact of Timing of Food and Physical Activity on Insulin Sensitivity on Type 2 Diabetes</b><br><br>KEYNOTE SPEAKER:<br><b>Juleen Zierath, PhD</b> , Karolinska Institute<br><br>Q & A SESSION   | WEST BALLROOM  |
| 8:15AM – 9:50AM   | <b>Scientific Session IV</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>   | WEST BALLROOM  |
| Sex-omics: A Systems Approach to the Methods of Studying Sex and Gender Differences   |   |  |
| CHAIRS:<br><b>Juleen Zierath, PhD</b> , Karolinska Institute<br><b>Judy Regensteiner, PhD</b> , University of Colorado School of Medicine<br><br>SPEAKERS:<br><b>Leslie Leinwand, PhD</b> , University of Colorado<br><i>A Woman is Not a Small Man: Sex Differences in the Heart in Health and Disease</i><br><b>Geert De Vries, PhD</b> , Georgia State University<br><b>Arthur Arnold, PhD</b> , University of California, Los Angeles<br><i>Sexual Differentiation as the Failure of Adaptive Sex-Balancing Mechanisms</i><br><b>Margaret McCarthy, PhD</b> , University of Maryland School of Medicine<br><i>Immune Origins of Sex Differences in the Brain</i><br><br>Q & A PANEL   |   |  |
| 9:50AM – 10:15AM  | Break   |  |
| 10:15AM – 12:20PM   | <b>Scientific Session V</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>  | WEST BALLROOM  |
| The Placental-Fetal Connection: Programming Adult Metabolic Health  |   |  |
| CHAIRS:<br><b>Yoel Sadovsky, MD</b> , Magee-Womens Research Institute, University of Pittsburgh<br><b>Laura Brown, MD</b> , University of Colorado School of Medicine<br><br>SPEAKERS:<br><b>Yoel Sadovsky, MD</b> , Magee-Womens Research Institute, University of Pittsburgh<br><i>New Insights into Placental Function in Maternal-Fetal Defense</i><br><b>Laura Brown, MD</b> , University of Colorado School of Medicine<br><i>Muscle Matters: Fetal Influences on Lifelong Body Composition</i><br><b>Kent Thornburg, PhD</b> , Oregon Health & Science University<br><i>Placental Sex and Fetal Development</i><br><b>Nigel Paneth, MD, MPH</b> , Michigan State University<br><i>Preventing Neurodevelopmental Disorders</i><br><br>SPEAKER Q&A PANEL<br><i>(Five minute data blitz presentations)</i><br><br>Q&A PANEL |   |  |
| 12:00 PM  | Boxed lunches available   |  |
| 12:20PM – 12:45PM   | Boxed lunch and break   | WEST BALLROOM FOYER                                      |
| 12:45PM—2:50PM  | <b>Scientific Session VI</b><br><i>(20-minute presentations followed by a 15-minute panel discussion)</i>   | WEST BALLROOM  |
| Female Sex as an Endocrine Disrupter in Diabetes  |   |  |
| CHAIRS:<br><b>Jane Reusch, MD</b> , University of Colorado School of Medicine<br><b>Kristen Nadeau, MD</b> , University of Colorado School of Medicine<br><br>SPEAKERS:<br><b>Jennifer Green, MD</b> , Duke University School of Medicine<br><b>Rachel Huxley, PhD</b> , Deakin University School of Medicine<br><i>Sex Differences in Vascular Health – Biology, Behavior or Bias?</i><br><b>Judy Regensteiner, PhD</b> , University of Colorado School of Medicine<br><i>Type 2 Diabetes and Exercise: Influences of Sex and Gender</i><br><b>Kristen Nadeau, MD</b> , University of Colorado School of Medicine<br><i>Sex Differences in Co-morbidities of Youth-onset Type 2 Diabetes</i><br><br>SPEAKER Q&A PANEL<br><i>(Five minute data blitz presentations)</i><br><br>Q&A PANEL  |   |  |
| 2:50PM – 3:00PM   | CLOSING REMARKS<br><b>Judy Regensteiner, PhD</b> , University of Colorado School of Medicine  |  |