

ASA 2025 Basic Science Workshop:
“Expand your research and network horizons”
Washington D.C., March 29, 2025

8:30 – 11:00 *SECTION 1: METHODS FOR MODELING AND SAFEGUARDING MALE FERTILITY*

Chairs: **Eoin Whelan**, University of Pennsylvania, PA, USA, **Mariana Ianello Giassetti**, Baylor University, TX, USA, and **Maria Camila Hoyos Sanchez**, Texas Tech University, TX, USA

8:30 - 8:35 Chairs – Introduction to the session

8:35 - 8:50 **Chris Geyer**, East Carolina University, NC, USA

Big Picture and Urgent Questions: *From Stem Cells to Sperm and Embryo*

INVITED SPEAKERS

8:55 - 9:15 **Pierre Comizzoli**, Smithsonian's National Zoo and Conservation Biology Institute, DC, USA

Safeguarding Endangered Species: Advances in Cryopreservation and Germplasm Storage

9:15 - 9:35 **Kyle Orwig**, Magee-Womens Research Institute, Pittsburgh, PA, USA

Stem cell approaches to preserve and restore male fertility.

SELECTED SHORT TALKS FROM APPLICANTS

9:40 - 9:55 Selected Abstract 1

9:55 - 10:10 Selected Abstract 2

10:10 - 10:25 Selected Abstract 3

10:25 - 10:55 **DISCUSSION PANEL** - Session 1 speakers

11:15 - 12:00 LUNCH AND AN HONORARY SPEAKER - HISTORICAL OVERVIEW OF THE BSW

George Gerton, PhD, University of Pennsylvania, Philadelphia, PA, USA

ASA, Past President

12:00 - 2:30 *SESSION 2: STATE-OF-THE ART TECHNIQUES TO ENSURE OPTIMAL SPERM QUALITY AND OFFSPRING POTENTIAL*

Chairs: **Victor Ruthig**, University of Colorado, CO, USA, **Morgan Feuz**, Utah State University, UT, USA, and **Ana Lima**, Oregon Health and Science University, OR, USA

12:00 - 12:05 Chairs – Introduction to the session

12:05 - 12:20 **Cristian O’Flaherty**, McGill University, Montreal, CA

Big Picture and Urgent Questions

INVITED SPEAKERS

Opening Talk

12:25 - 12:45 **Pablo Visconti**, University of Massachusetts Amherst, MA, USA

Advances in Sperm Metabolism and Sperm Capacitation

Invited Short Talks

- 12:45 – 1:00 **Melanie Balbach**, Michigan State University, MI, USA
 Stable isotope labeling analysis of capacitating mammalian sperm
- 1:00 – 1:15 **Ciro Amato**, University of Missouri, Columbia, MO, USA
 Integrating single cell mRNA sequencing and ex-vivo slice culture to unravel the complexities of penile birth defects.

SELECTED SHORT TALKS FROM APPLICANTS

- 1:15 – 1:30 Selected Abstract 1
- 1:30 – 1:45 Selected Abstract 2
- 1:45 – 2:00 Selected Abstract 3
- 2:00 - 2:30 **DISCUSSION PANEL** - Session 2 speakers
- 2:30 Final remarks and Conclusion