



All events will take place in The Yarnell Lecture Hall (LH4), LH5 and Takoda's Run (CVM 1<sup>st</sup> floor atrium)

### Thursday April 27

7:30 – 8:30am

**Registration and Breakfast; Takoda's Run**

8:30 – 8:35am

**Dr. Paula Cohen**, Cornell University, Welcome remarks

### Session 1: Pregnancy and Embryo/Placenta

Moderators Rui Huang and Yahan Li

8:35-9:05am

**Keynote Speaker: Dr. Heidi Stuhlmann**, Weill Cornell Medicine  
*Placental miR-126 and its Role in Fetal Programming*

9:05-9:20am

**Robin Skory**, Perelman School of Medicine, University of Pennsylvania  
*Embryo live-imaging reveals nuclear DNA shedding during blastocyst expansion and biopsy*

9:20-9:35am

**Emily Lopes**, University of Massachusetts Amherst  
*TRPV3 function contributes to zinc homeostasis and impacts early fertilization events in mice*

**Break: 9:35-9:45am**

### Session 2: Germline/Meiosis

Moderators Grace Lee and Caroline Ascencao

9:45-10:15am

**Keynote Speaker: Dr. Yumi Kim**, John Hopkins University  
*The synaptonemal complex in C. elegans*

10:15-10:30am

**Jeffrey Vedanayagam**, Sloan Kettering Institute  
*Essential and recurrent roles for hairpin RNAs in silencing de novo sex chromosome conflict in Drosophila simulans*

10:30-10:45am

**Sarah Potgieter**, Rutgers University  
*ADAD1 is a novel translation regulator important for intracellular protein transport and sperm head shaping during spermiogenesis*

10:45-11:00am

**Stephanie Tanis**, Cornell University  
*Investigating Meiotic Prophase I as an Intervention Point for Male Contraceptive Targeting*

11:00-11:15am

**Victor Ruthig**, Weill Cornell Medicine  
*Alternative Splicing Alters the Female and Male Germ Cell Splice-Ome at Transitions Points in Fetal Germ Cell Development*

**Poster Session: 11:15am-1:30pm**

**Lunch at noon**

1:30-1:45pm

**Mitch Harancher**, University of Pittsburgh  
*An Approach to Address Iatrogenic Male Infertility and Prevent Disease Transmission in Mouse and Human Models of Sickle Cell Disease*

1:45-2:15pm

**Keynote Speaker: Dr. Colin Conine**, Perelman School of Medicine, University of Pennsylvania  
*The transmission of epigenetic information to offspring by sperm RNAs*

### Session 3: Reproductive Tract

Moderators Georgia Atkins and Andre Caldeira-Brant

2:15-2:45pm

**Keynote Speaker: Dr. Humphrey Yao**, NIH  
*From oocyte-producing testis to blastocyst complementation: new frontier in deciphering sex differentiation*

2:45-3:00pm

**Ruixu Huang**, Dartmouth College  
*Mapping ovulation with spatiotemporal and single-cell resolution*

3:00-3:15pm

**Ana Martinez-Marchal**, University of Pittsburgh School of Medicine  
*SARS-CoV-2 modifies the testicular compartment and decreases the number of SSC upon acute COVID-19 infection*

3:15-3:30pm

**Rhasaan Bovell**, Cornell University  
*Relationship between serum Anti-Müllerian hormone concentration and ovarian stimulation response in cheetahs (Acinonyx jubatus)*

**Break 3:30-3:40pm**

3:40-3:55pm

**Jiyang Zhang**, Rutgers University  
*Targeting proprotein convertases and ovulation to develop non-hormonal contraceptives*

3:55-4:25pm

**Keynote Speaker: Dr. Athena Ren**, Cornell University  
*From gene regulation to physiology: Orchestration of time and space in mammalian ovulation.*

### Stuart Moss Memorial Lecture

4:30-5:30pm

**Dr. Francesca Duncan**, Northwestern University  
*Transforming ovarian aging into reproductive longevity*

5:30-5:40pm

**Dr. Paula Cohen**, Cornell University, Closing remarks

**Reception 5:30-8:00pm Takoda's Run**

Poster and talk prizes will be awarded at the reception



**Friday April 28**

The Yarnell Lecture Hall (LH4)

8:00 – 9:00am ***Breakfast: Takoda's Run and The Green Room for EIC/AIC participants***

**Career Forum**

*Moderator Ian Wolff*

9:00 – 11:00am **Paula Cohen, PhD:** Professor and Associate Vice Provost for Life Sciences, Cornell University

**Stephen Ward, PhD:** Program Officer, Bill & Melinda Gates Foundation

**Daniel Goldberg, PhD:** Senior Program Officer, Bill & Melinda Gates Foundation

**Mary Ann Handel, PhD:** Professor Emeritus, The Jackson Laboratory

**Travis Kent, PhD:** Program Officer, NICHD Fertility and Infertility Branch

**Heidi Stuhlmann, PhD:** Professor, Weill Cornell Medicine

11:00am Hike to Newman's Overlook, Cornell Botanic Gardens for lunch

**Thank you for joining us in beautiful Ithaca, NY for the 2023 Tri-Repro Symposium!**