

52nd SSR Annual Meeting

July 18-21, 2019

Schedule At-A-Glance

Wednesday, July 17, 2019

Pre- Meeting Workshop – Time TBD
Science Communication and Knowledge Translation

Thursday, July 18, 2019

Pre- Meeting Workshops - 7:30AM-12:00PM
Science Communication and Knowledge Translation

Trainee Forum - 12:00PM - 1:30PM
“Careers in The Sciences: What You Can Do with A PhD”

Opening Ceremonies - 3:30PM - 5:15PM

- **BOR Awards**
- **SSR New Investigator Award**
- **Keynote Lecture:**
Diana Bianchi, MD
Director
Eunice Kennedy Shriver National Institute of Child Health and Human Development, USA
“Found in Translation: Insights Regarding Fetal, Maternal and Placental Biology from Clinical Implementation of Cell-Free DNA Sequencing”

Opening Reception - 6:00PM -9:00PM

Friday, July 19, 2019

Poster Session A – 8:00 AM – 10:00 AM

Flash Talks A – 8:00AM-8:30AM

Break - 10:00AM – 10:30AM

Focus Sessions - 10:30-12:00

Session 1 - Maladaptive Responses to Environmental Exposures

Senior Co-Chair: Krista McCoy, PhD, East Carolina University, USA

Frank (Skip) Bartol, PhD

Auburn University, USA

"The Maternal Lactocrine Continuum Programming Uterine Capacity"

Almudena Veiga Lopez, PhD

Michigan State University, USA

"Maternal programming of fetal development via endocrine disruptors"

Session 2 - William Hansel Ovarian Biology Symposium: New Models of PCOS

Senior Co-Chair: Hugh Clarke, PhD, McGill University Health Centre, Canada

Teresa Woodruff, PhD - ASRM-SSR Exchange Lecture

Northwestern University, USA

Annie Newell-Fugate, PhD

Texas A&M University, USA

Session 3- Advances in Regenerative Medicine

Senior Co-Chair: Amander Clark, PhD, University of California Los Angeles, USA

Alessandro Prigione, PhD

Max Delbruck Berlin, Germany

Diana Laird, PhD

University of California San Francisco, USA

"Lineage and Heterogeneity in Primordial Germ Cells"

Session 4 - Making Good Sperm

Senior Co-Chair: Rich Cardullo, PhD, University of California Riverside, USA

Tomer Avidor-Reiss, PhD

University of Toledo, USA

"The Atypical Centriole of the Sperm"

Heidi Fisher, PhD

University of Maryland, USA

"The Evolution of Cooperative Sperm in Peromyscus Mice"

Session 5- Programming Reproductive Organ Development

Senior Co-Chair: Tony DeFalco, PhD, Cincinnati Children's Hospital Medical Center, USA

Dagmar Wilhelm, PhD
The University of Melbourne, Australia
"New Insights into Ovarian Development and Function"

Blanche Capel, PhD
Duke University Medical Center, USA
"The Battle of The Sexes: Setting the Gonad on The Male Trajectory"

Break - 12:00PM-1:30PM

Diversity Symposium Lunch – 12:15-1:15

Keynote Speaker:
Renee Reijo Pera, PhD
Vice President of Research and Economic Development
Montana State University, USA

Trainee Research Award Platform Competition – 1:30PM – 3:00PM

Break 3:00PM-3:30PM

Dr. Kwang Yul Cha Symposium on Regenerative Medicine Session – 3:30-5:30PM

- Keynote Lecture:
Alejandro Sanchez-Alvarado, PhD
Stowers Institute, USA
"Understanding the Source of Reproductive Plasticity in Planarians"
- Carl G. Hartman Award
- Keynote Speaker:
Matthew Porteus, MD
Stanford University, USA
"Genome Editing in Humans: Where Are We and Should There Be Limits?"

Saturday, July 20, 2019

Poster Session B – 8:00AM-10:00AM

Flash Talks B – 8:00AM -8:30AM

Break – 10:00AM – 10:30AM

Focus Sessions - 10:30AM-12:00PM

Session 6 - Placental Adaptations to Adversity

Senior Co-Chair: Alina Maloyan, PhD Oregon Health Sciences University, USA

Michael Satterfield, PhD
Texas A&M University, USA

Tu'uhevah Kaitu'u-Lino, PhD - SRB – SSR Exchange Lecture
The University of Melbourne, Australia
“New Diagnostics for Pregnancy Complications”

Session 7 - Reproductive Aging

Senior Co-Chair: Francesca Duncan, PhD, Northwestern University, USA

Ned Place, PhD, MD
Cornell University, USA

Michele Pritchard, PhD
University of Kansas Medical Center, USA

Session 8 - Editing the Germ Line and Genome

Senior Co-Chair: Joao Ramalho-Santos, PhD, University of Coimbra, Portugal

Kimberly Cooper, PhD
University of California San Diego, USA
“How CRISPR/Cas9 'Gene Drive' Technology in Laboratory Mice Could Make the Impossible Possible”

Erika Sasaki, PhD
Keio University School of Medicine, Japan

Session 9 - Becoming Haploid

Senior Co-Chair: Andy Childs, PhD, Imperial College London, UK

Takashi Akera, PhD
University of Pennsylvania, USA
“Molecular and Evolutionary Strategies of Meiotic Cheating by Selfish Elements”

Ewelina Bolcun-Filas, PhD – Anita Payne Lecture
Jackson Laboratory, USA
“Phenotypic Variation in Female Reproductive Parameters in Genetically Diverse Mice: A Window to Understand Human Infertility”

Session 10 - The Virendra B. Mahesh Neuroendocrine Session: Neuroendocrine Control of Metabolism

Senior Co-Chair: Djurdjica Coss, PhD, University of California Riverside, USA

Jennifer Hill, PhD
University of Toledo, USA
"Conflicting Desires: A POMC Switch for Breeding and Feeding"

Rebecca Campbell, PhD
University of Otago, New Zealand

Break – 12:00PM-1:30PM

Trainee Mentor Lunch - 12:15PM-1:15PM

Focus Session PM - 1:30PM-3:00PM

Session 11 - Signals Regulating Implantation

Senior Co-Chair: Indrani Bagchi, PhD, University of Illinois Urbana-Champaign, USA

Tom Spencer, PhD
University of Missouri, USA
"Comparative Insights into How Uterine Glands Function in Pregnancy Establishment"

Pat Lonergan, PhD
University College Dublin, Ireland

Session 12 - The John J. Eppig Session: Modulation of Oocyte Growth

Senior Co-Chair: Richard Schultz, PhD, University of California Davis, USA

Stephanie Pangas, PhD
Baylor College, USA
"Wrestling with Reproduction: The Critical Roles of Protein Sumoylation In Oocyte Development"

Guang Hu, PhD
National Institute of Environmental Health Sciences, USA
"Post-Transcriptional Regulation of Germ Cell Development"

Session 13 - Genomic Insights into Reproductive Success

Senior Co-Chair: Mary Ann Handel, PhD, Jackson Laboratories, USA

Pierre Ray, PhD
CHU-Grenoble Alpes, France

Rima Slim, PhD
McGill University, Canada
"Genes and Mechanism of Androgenetic Hydatidiform Moles: An Answer to A 40-Year Old Question"

Session 14 - In and Out of the Testis Through the Blood-Testis Barrier

Senior Co-Chair: Jannette Dufour, PhD, Texas Tech University Health Science Center, USA

Kenneth Tung, PhD

University of Virginia, USA

“Sperm and Cancer/Testis Antigens Egress Mouse Testes To Maintain Immune Protection”

C. Yan Cheng, PhD

Population Council, USA

“Use of Endogenously Produced BTB Modifiers to Enhance Efficacy of Non-Hormonal Male Contraceptives”

Session 15 - Alternative Instructions: Rewiring Reproductive Cancers

Senior Co-Chair: Kanako Hayashi, PhD, Southern Illinois University School of Medicine, USA

Ken Nephew, PhD

Indiana University, USA

“Epigenetic Rewiring of Ovarian Cancer for Cancer Therapy”

Julie Kim, PhD

Northwestern University, USA

“Tackling Endometrial Cancer: A New Frontier”

Break – 3:00PM – 3:30PM

Plenary Session – 3:30PM-5:30PM

- Keynote Speaker:
Gavin Kelsey, PhD
The Babraham Institute, UK
“Single-Cell Sequencing Reveals Genetic and Dietary Influences On The Oocyte Epigenome”
- SSR Research Award
- Jansen SSR Distinguish Service Award
- Keynote Speaker:
Kathy Niakan, PhD
The Francis Crick Institute, UK
“Regulation of Differentiation During Human Preimplantation Embryo Development”

Sunday, July 21, 2019

Fun Run – 6:00AM-8:00AM

Poster Session C – 8:00AM – 10:00AM

Break – 10:00AM-10:30AM

Focus Sessions – 10:30AM-12:00PM

Session 16 - SRI-SSR Exchange Lectures: Novel Mechanisms Regulating Parturition

Senior Co-Chair: Sarah Robertson, PhD, University of Adelaide, Australia

Jerry Strauss, PhD

Virginia Commonwealth University, USA

“Gene x Environment Interactions and Preterm Birth”

Mark Phillipe, PhD

Harvard University, USA

“Pregnancy Length, Parturition and the Telomere Gestational Clock”

Session 17 - Impact of Climate Change on Reproduction

Senior Co-Chair: Janice Bailey, PhD, Université Laval, Canada

Peter Dutton, PhD

National Marine Fisheries Service, USA

Jason Ross, PhD

Iowa State University, USA

“Physiological Mechanisms Through Which Heat Stress Compromises Reproduction in Pigs”

Session 18 - RNA Modifications in Reproduction

Senior Co-Chair: Sue Hammoud, PhD, University of Michigan, USA

Qi Chen, PhD

University of Nevada, Reno

“Sperm RNA Code: How Many More Secrets?”

Marcos Morgan, PhD

University of Edinburgh, UK

“Role of RNA Uridylation In Germ Line Differentiation”

Session 19 - Reproductive Tract Modulation of Sperm Function

Senior Co-Chair: Mariana Wolfner, PhD, Cornell University, USA (tentative)

Wipawee Winuthayanon, PhD
Washington State University, USA

“Disruption of Semen Liquefaction in the Female Reproductive Tract: A Potential Novel Contraceptive”

Patricia Martin-DeLeon, PhD
University of Delaware

“The Role of Extracellular Vesicles in the Female Reproductive Tract”

Session 20 - Mechanisms of Early Embryo Development

Senior Co-Chair: Pete Hansen, PhD, University of Florida, USA

Pablo J Ross, PhD
University of California Davis, USA

“Transcriptional and Epigenetic Reprogramming During Bovine Preimplantation Development”

Shawn Chavez, PhD
Oregon Health & Science University, USA

“Investigating Embryonic Chromosomal Instability in Preimplantation Development”

Break 12:00PM – 1:30PM

Heritage Lunch – 12:15PM-1:15PM

Speaker: Kelly Mayo, PhD, Northwestern University, USA

The Heritage Lunch will honor the life and achievements of Dr. Neena Schwartz

Focus Sessions – 1:30PM – 3:00PM

Session 21 - Metabolic Drivers of Heritable Phenotypes

Senior Co-Chair: Justin St. John, PhD, Hudson Institute of Medical Research, Australia (tentative)

Deborah Sloboda, PhD - Canadian Fertility & Andrology Society Exchange Lecture
McMaster University, Canada

“Maternal Microbial and Metabolic Impacts on Fetal and Placental Development”

Roger Sturmey, PhD
The Hull York Medical School, UK

Session 22 - Ovarian Conversations

Senior Co-Chair: Claude Robert, PhD, Université Laval, Canada

Jon Hennebold, PhD
Oregon Health & Science University, USA

“Progesterone Receptor Action in the Primate Ovulatory Follicle”

Kelly Young, PhD
California State University – Long Branch, UAS

“Photostimulated Ovarian Recrudescence: The Role of Gonadotropins”

Session 23 - CHA Health Systems Symposium on Epigenetic Modulation of Pluripotency

Senior Co-Chair: Marisa Bartolomei, PhD, University of Pennsylvania, USA

Wei Xie, PhD

Tsinghua University, China

Thorold Theunissen, PhD

Washington University, USA

"Understanding Human Pluripotent States and Their Applications"

Session 24 - Sperm-Egg Conversations

Senior Co-Chair: Rafael Fissore, PhD, University of Massachusetts Amherst, USA

Pablo Visconti, PhD

University of Massachusetts – Amherst, USA

"Sperm Signaling in ART and Science"

Andrea Pauli, PhD

Research Institute of Molecular Pathology, Austria

"Bouncer and SPACA4 – Small Proteins with Big Roles in Fertilization"

Session 25 - Mixed Signals: Unraveling Pathways in Diseases of The Female Reproductive Tract

Senior Co-Chair: Shannon Hawkins, PhD, Indiana University, USA

Jackie Maybin, PhD - SRF-SSR Exchange Lecture

University of Edinburgh, UK

"Understanding the Role of Endometrial Hypoxia to Improve Management of Heavy Menstrual Bleeding"

Linda Giudice, PhD

University of California San Francisco, USA

Break – 3:00PM – 3:30PM

Plenary Session - 3:30PM – 5:30PM

- Keynote Speaker:
Janet Rossant, PhD
The Hospital for Sick Children, USA
"Embryos, Stem Cells and Ethical Concerns"
- Janice Bahr Junior Scientist Travel Fund
- Fuller W. Bazer SSR International Scientist Award Fund
- SSR Trainee Mentor

- Keynote Speaker:
Chelsea Polis, PhD
Guttmacher Institute, USA
“Advancing Reproductive Health Through Science Literacy and Listening”

Closing Ceremonies – 5:30PM-6:15PM

- Trainee Merit Awards
- Best International Abstracts
- Burroughs Welcome Fellows
- SSR Business Meeting

Closing Reception - 7:00PM-11:00PM