Society for Reproductive Investigation

Immunology and Women’s Health

FINAL PROGRAM

62nd SRI Annual Scientific Meeting • San Francisco, CA • March 25-28, 2015
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62nd SRI Annual Scientific Meeting Venue
Hilton San Francisco
333 O’Farrell Street
San Francisco, CA USA
+1-415-771-1400

Future Educational Events
8th International DIP Symposium on Diabetes, Hypertension, Metabolic Syndrome & Pregnancy • April 15 – 18, 2015 • Berlin, Germany
6th IVI International Congress • April 23 – 25, 2015 • Alicante, Spain
Society of Endometriosis and Uterine Disorder Congress • May 7 – 9, 2015 • Paris, France
Society for the Study of Reproduction 48th Annual Meeting • June 18 – 22, 2015 • San Juan, Puerto Rico
Gynecologic Oncology Group Semi Annual Meeting • July 15 – 19, 2015 • Denver, CO
FIGO World Congress of Gynecology and Obstetrics • October 4 – 9, 2015 • Vancouver, Canada
The American Society for Cell Biology Annual Meeting • December 12 – 16, 2015 • San Diego, CA
Chair’s Message

Dear Colleagues,

We are looking forward to seeing you at the 62nd Annual Meeting of the newly named Society for Reproductive Investigation (SRI), which will be held from Wednesday, March 25th to Saturday, March 28th, 2015, in San Francisco, CA! On behalf of the Program Committee, we would like to highlight the exciting scientific program for this year’s meeting. The overall theme selected is “Immunology and Women’s Health,” and we have two phenomenal, Presidential Distinguished Lecturers. The first is Dr. Bruce Beutler, who was co-awarded the Nobel Prize in Physiology or Medicine in 2011 and is currently the Raymond and Ellen Willie Distinguished Chair in Cancer Research, Director of the Center for Genetics of Host Defense, and Regental Professor in the Department of Immunology at the UT Southwestern Medical Center. He will focus on a more global aspect of immunology, and his talk is entitled, “Sensing and responding to microbes: A forward genetic approach.”

As our second Presidential Distinguished lecturer, we are also fortunate to have Dr. Peggy Petroff, a leading reproductive scientist and immunologist who will be speaking on “Autoimmune-mediated Premature Ovarian Failure: Knocking the AIRE out of fertility.” This talk will highlight a major paradigm shift in how we think about immune tolerance to self and its effects on fertility and pregnancy loss.

Following the traditional lines of the SRI Annual Meeting, there will also be a new investigator plenary session, a total of 14 outstanding mini-symposia, and several oral concurrent and poster sessions. This meeting will also host the third annual Connection Corners session, which has been a hugely popular and successful event that engages trainees with the more senior members of the society. Furthermore, we are also excited to introduce a “Toolbox” session that will highlight methodologies in bioinformatics processing and flow cytometry, a dedicated lounge area for junior investigators so they have the opportunity to meet other scientific contemporaries, and two simultaneous sessions geared toward career development for early-stage and mid-career investigators. And of course, the main meeting will be preceded by a full day of exceptional satellite meetings.

We look forward to seeing you, and we hope that you will also encourage your colleagues to attend, as showcasing the excellence of SRI will only continue to improve the caliber of science at our annual meeting.

All the best,

Stephen Matthews, Ph.D. 
SRI Program Committee Chair

Emily Su, M.D., M.S. 
2015 Scientific Program Director

2015 Program Committee

Stephen Matthews, Ph.D. — University of Toronto
Bo Rueda, Ph.D. — Massachusetts General Hospital
Emily J. Su, M.D., M.S. — Northwestern University
Emre Seli, M.D. — Yale University
Sam Mesiano, Ph.D. — Case Western Reserve University
Charles Ducsay, Ph.D. — Loma Linda University
General Meeting Information

Meeting Description
The SRI Annual Meeting gathers leading scientists and clinical investigators annually to share cutting edge information in reproductive sciences and women’s health. The Annual Meeting will feature an outstanding lineup of distinguished plenary speakers, 14 mini-symposia sessions, several New Investigator events and excellent scientific and oral poster presentations.

Meeting Location
Hilton San Francisco
333 O’Farrell Street
San Francisco, CA
+1-415-771-1400

Meeting Objectives
— To highlight key roles of immunology and its scientific principles in women’s health
— To feature the most recent and high caliber science dedicated to reproductive investigation
— To facilitate scientific exchange between scientists dedicated to women’s health and reproductive science

Target Audience
Scientists and clinical investigators who conduct basic, translational and clinical investigation in reproductive sciences and women’s health.

No Smoking Policy
Smoking is not permitted during any SRI activity or event.

Website
For more information on the Society for Reproductive Investigation, visit our website at www.sri-online.org.

Attire
Business (suits) or business casual (polo or dress shirts, sport coats) are appropriate for SRI sessions.
Location Information

About San Francisco
San Francisco is a popular tourist destination, known for its cool summers, fog, steep rolling hills, eclectic mix of architecture, and landmarks such as the Golden Gate Bridge, cable cars, the former prison on Alcatraz Island, and its Chinatown District.

Hilton San Francisco Union Square
Located in the center of the Theater District, there are many attractions just a short walk away from the hotel. Within walking distance are Union Square, the San Francisco Shopping Center, City Hall and AT&T Park. You can also use the historic cable cars, attend a show at one of the nearby theaters, stroll through Golden Gate Park or Fisherman’s Wharf, or try out some of the many near-by restaurants. Nearby excursions could include wine tasting in the Napa or Sonoma valleys, or hiking in Muir Woods National Monument.

Airports
San Francisco International Airport (SFO)
Information Service Phone: (650) 821-8211
Website: www.flysfo.com
Distance from airport to hotel: 14 miles
Approximate cost of taxi from airport to hotel: $41.00
Driving directions from airport to hotel: Take Highway 101 North and exit at 7th Street. Turn right on Folsom Street, then left on 5th Street. Turn left onto Ellis Street past Mason St. Garage entrance is on Ellis Street. Approximate drive time is 30 minutes.

Metropolitan Oakland International (OAK)
Website: www.oaklandairport.com
Information Service Phone: (510) 563-3300
Distance from airport to hotel: 20 miles
Approximate cost of taxi from airport to hotel: $60.00
Driving directions from airport to hotel: Take Highway 880 North. Take exit 46/80W towards San Francisco/Bay Bridge. Exit at 5th Street in San Francisco. Continue right at Cyril Magnin then left on Ellis St. Hotel garage is one block ahead between Mason & Taylor Streets. Approximate drive time is 40 minutes.

Nearby Restaurants
Within 1 city block:
Cityhouse — www.cityhouse.com/san-francisco
Food Type: classic American
Serves: Breakfast, Lunch, Dinner

Within 2 city blocks:
farmer brown — www.farmerbrown.com
Food Type: classic Southern cuisine
Serves: Dinner, Weekend Brunch
Ryoko’s Japanese Restaurant & Bar — www.ryokos.com
Food Type: sushi
Serves: Dinner
John’s Grill — www.johnsgrill.com
Food Type: seafood & steak
Serves: Lunch, Dinner
Bio — www.biologiquesf.com
Food Type: vegetarian, vegan, soups & sandwiches
Serves: Breakfast, Lunch, Dinner

Within 3 city blocks:
Café Encore
Phone: +1-415-433-6549
Food Type: coffee/tea, juice bar & smoothies, sandwiches
Serves: Breakfast, Lunch, Dinner

Transportation
Taxi Companies
Yellow Cab Cooperative
Phone: +1-415-333-3333
United Taxicab Workers
Phone: +1-415-964-8294

Parking Options
Hotel Parking
$53.58 Garage Parking
$59.28 Valet Parking

City Parking
Phone: +1-800-232-6415
www.parkingpanda.com
Hotel Information

Cancellation Policy
- Guests who check out before their scheduled departure date will be subject to a $100.00 early checkout fee. Guests wishing to avoid the fee should advise the Hilton at or before check-in of any change in planned length of stay.

Exhibits & Social Events

Celmatix Inc.
54 West 40th Street, New York, NY 10018, USA
Tel: +1-646-389-0245; Email: info@celmatix.com; Website: www.celmatix.com
Celmatix is a New York City-based personalized medicine company that leverages big data and genomics to create products that bring greater clarity to the treatment of infertility and pave the way for proactive fertility management.

Miltenyi Biotec
6125 Cornerstone Court East, San Diego, CA 92121, USA
Tel: +1-530-888-8871; Email: macs@miltenyibiotec.com; Website: www.miltenyibiotec.com
Miltenyi Biotec’s mission is to improve scientific understanding and medical progress. We provide products and services that advance biomedical research and cellular therapy. Honoring this mission drives our commitment to support the translation of basic research into therapy in the areas of immunology, cancer, neuroscience and stem cell biology. We innovate products that address sample preparation, separation of cells and their analysis, and that advance the concept of cellular therapy. “Researchers working for researchers” is our promise to provide pioneering products to our customers.

Welcome Reception
Wednesday, March 25
6:45 p.m. – 8:00 p.m.
Imperial A&B
Join us for socializing, wine and light appetizers.

Connection Corners: Bringing Trainees Together
Thursday, March 26
6:00 p.m. – 7:30 p.m.
Yosemite A&B
New and Mid-Career Investigators are invited to come meet and `connect’ with Senior Investigators about jobs, career advice or just for some friendly banter. Drinks and light appetizers provided.
### Meeting Overview

Subject to change

#### Tentative Meeting Overview

<table>
<thead>
<tr>
<th>Wednesday, March 25</th>
<th>Thursday, March 26</th>
<th>Friday, March 27</th>
<th>Saturday, March 28</th>
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<tbody>
<tr>
<td>Morning</td>
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<tr>
<td>7:00 a.m. – 7:00 p.m. Registration</td>
<td>7:00 a.m. – 6:00 p.m. Registration</td>
<td>8:00 a.m. – 5:00 p.m. Registration</td>
<td>8:00 a.m. – 1:00 p.m. Registration</td>
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<tr>
<td>8:30 a.m. – 5:00 p.m. Satellite Meetings</td>
<td>6:30 a.m. – 7:30 a.m. Bayer Breakfast Series I</td>
<td>6:45 a.m. – 7:45 a.m. Bayer Breakfast Series II</td>
<td>6:45 a.m. – 7:45 a.m. Bayer Breakfast Series III</td>
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<td>7:00 a.m. – 8:00 a.m. Career Development Meeting (Committee Members Only)</td>
<td>7:00 a.m. – 8:00 a.m. Minority Career Development Session</td>
<td>7:45 a.m. – 9:45 a.m. Poster Session III</td>
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<td>7:45 a.m. – 10:00 a.m. President’s Welcome Address, President’s Distinguished Lecture, New Investigator Plenary</td>
<td>8:00 a.m. – 9:00 a.m. President’s Distinguished Lecture II</td>
<td>10:00 a.m. – 10:45 a.m. President’s Address, Awards Ceremony (President’s Achievement Award, Frederick Naftolin Award, Rogerio A. Lobo Award, SRI-Pardi Distinguished Scientist)</td>
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<td>10:00 a.m. – 12:00 p.m. Poster Session I</td>
<td>9:00 a.m. – 11:00 a.m. Poster Session II</td>
<td>10:45 a.m. – 11:30 a.m. SRI-Pardi Distinguished Scientist Lecture</td>
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<td>Afternoon</td>
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<tr>
<td>8:30 a.m. – 5:00 p.m. Satellite Meetings</td>
<td>12:00 p.m. – 1:30 p.m. Lunch Symposium</td>
<td>12:45 p.m. – 2:00 p.m. Toolbox Symposium: Cutting Edge Techniques</td>
<td>12:00 p.m. – 1:00 p.m. Hot Topics</td>
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<td>12:00 p.m. – 1:30 p.m. Past President’s Lunch (Invitation only)</td>
<td>2:00 p.m. – 4:00 p.m. Mini Symposia II</td>
<td>1:15 p.m. – 2:45 p.m. Concurrent Oral Presentations III</td>
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<td>1:45 p.m. – 3:45 p.m. Concurrent Oral Presentations I</td>
<td>4:00 p.m. – 4:15 p.m. Coffee Break</td>
<td>3:00 p.m. – 3:30 p.m. Best New Investigator Poster Awards</td>
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<td>3:45 p.m. – 4:00 p.m. Coffee Break</td>
<td>4:15 p.m. – 5:45 p.m. Concurrent Oral Presentations III</td>
<td>3:45 p.m. – 5:15 p.m. Council Meeting (Council Members Only)</td>
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<td>4:00 p.m. – 6:00 p.m. Mini Symposia I</td>
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<td>Evening</td>
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<tr>
<td>5:15 p.m. – 6:15 p.m. Career Development Sessions</td>
<td>6:00 p.m. – 7:30 p.m. SRI Business Meeting (Members Only)</td>
<td>6:00 p.m. – 6:45 p.m. SRI Business Meeting (Members Only)</td>
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<tr>
<td>6:45 p.m. – 8:00 p.m. Opening Reception</td>
<td>6:45 p.m. – 7:15 p.m. Wine and Cheese Reception</td>
<td>6:45 p.m. – 7:15 p.m. Wine and Cheese Reception</td>
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<td>7:15 p.m. – 8:00 p.m. New Investigator Awards Ceremony</td>
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Scientific Program

Topics and faculty are subject to change.

Wednesday, March 25

8:30 a.m. – 5:00 p.m.  
Fetal Physiology Satellite Meeting

Organizer: Lubo Zhang

Morning Session: 8:30 a.m. – 12:00 p.m.

8:30 a.m. – 9:30 a.m.  
Central and Peripheral Glucocorticoid Synthesis Act as Orchestrators of Developmental Programming  
Peter Nathanielz, M.D., Ph.D., University of Texas Science Center San Antonio

9:30 a.m. – 10:00 a.m.  
Break

10:00 a.m. – 11:00 a.m.  
Fetal Programming in the Vasculature: Glucocorticoids, miRNA and Smooth Muscle Phenotype  
William Pearce, Ph.D., Loma Linda University

11:00 a.m. – 12:00 p.m.  
Fetal and Neonatal Cardiac Growth  
Sonnet Jonker, Ph.D., Oregon Health Sciences University

12:00 p.m. – 1:30 p.m.  
Lunch

Afternoon Session: 1:30 p.m. – 5:00 p.m.

1:30 p.m. – 2:30 p.m.  
Prevention of Fetal Programming  
George Saade, M.D., University of Texas Medical Branch Galveston

2:30 p.m. – 3:30 p.m.  
Sex Dimorphism in Fetal Programming of Adult Health and Diseases  
Chandra Yallampalli, Ph.D., Baylor College of Medicine

3:30 p.m. – 4:00 p.m.  
Break

4:00 p.m. – 5:00 p.m.  
Adrenergic Stimulation Programs Fetal Glucose Metabolism During Intrauterine Growth Restriction  
Sean Limesand, Ph.D., University of Arizona

8:30 a.m. – 5:00 p.m.  
Placenta Satellite Meeting

Program Director: Helen N. Jones, Ph.D., Division of Reproductive Sciences and General Thoracic Surgery, Cincinnati Children’s Hospital Medical Center, University of Cincinnati, Cincinnati, OH, USA

Morning Session: 8:30 a.m. – 12:00 p.m.

8:30 a.m. – 9:30 a.m.  
Angiogenesis in Tumors: Lessons and Surprises  
Donald McDonald, M.D., Ph.D., Professor, Department of Anatomy, University of California, San Francisco, CA, USA

9:30 a.m. – 10:00 a.m.  
Break

10:00 a.m. – 10:30 a.m.  
Dark Side of Invasion: An Essential Process in Placental Development and Tumor Progression  
Mehboob Ali, Ph.D., Research Scientist, The Research Institute, Nationwide Children’s Hospital, Columbus, OH, USA

10:30 a.m. – 11:00 a.m.  
How Elucidating Tumor Biology Can Help Feed the World: Unraveling CXCL12/CXCR4 Signaling  
Ryan Ashley, Ph.D., Assistant Professor, Animal and Range Sciences, New Mexico State University, Las Cruces, NM, USA

11:00 a.m. – 12:00 p.m.  
Trophoblast Immune Interactions  
Gil Mar, M.D., Ph.D., M.Sc. Professor of Obstetrics, Gynecology, and Reproductive Sciences; Division Director, Reproductive Sciences; Director, Reproductive Immunology Unit and Discovery to Cure; Yale School of Medicine, New Haven, CT, USA

12:00 p.m. – 1:30 p.m.  
Lunch
Scientific Program

Topics and faculty are subject to change.

Wednesday, March 25, continued

Afternoon Session: 1:30 p.m. — 5:00 p.m.
Chairs: Vadivel Ganapathy, Ph.D., Signaling & Angiogenesis Program; Biochemistry and Molecular Biology; Physiology, Surgery and Obstetrics and Gynecology, GRU Cancer Center, Georgia Regents University, Augusta, GA, USA
Helen Jones, Ph.D., Divisions of Reproductive Sciences and General and Thoracic Surgery, CCHMC, University of Cincinnati, OH, USA

1:30 p.m. — 2:30 p.m. Amino Acid Transporters in Cancer and Their Relevance to mTOR Signaling
Vadivel Ganapathy, Ph.D., Department Chair, Graduate Program in Biochemistry and Cancer Biology; Leader, Signaling & Angiogenesis Program; Regent’s Professor of Biochemistry and Molecular Biology; Professor of Physiology, Surgery and Obstetrics and Gynecology; GRU Cancer Center, Georgia Regents University, Augusta, GA, USA

2:30 p.m. — 3:30 p.m. When a Pregnancy Leads to a Tumor: the Genetics of Gestational Trophoblastic Diseases
Rima Slim, Ph.D., Professor, Department of Obstetrics and Gynecology, McGill University Health Centre; Research Scientist, Human Reproduction and Development Axis, Montreal General Hospital; Montreal, QC, Canada

3:30 p.m. — 4:00 p.m. Break

4:00 p.m. — 5:00 p.m. The Human Placental Project
Alan E. Guttmacher, M.D., Director, Eunice Kennedy Shriver National Institute of Child and Human Development National Institutes of Health, Bethesda, MD, USA

8:30 a.m. — 5:00 p.m.
Preterm Birth International Collaborative (PREBIC) Satellite Meeting
Symposium Coordinator: Ramkumar Menon, Ph.D., Assistant Professor, Department of Obstetrics and Gynecology, Maternal-Fetal Medicine & Perinatal Research Division, The University of Texas Medical Branch at Galveston, Galveston, TX, USA

Morning Session: 8:30 a.m. — 12:00 p.m.
Moderator: Craig Pennell, M.D., Ph.D., PRESIDENT-PREBIC, Associate Professor in Maternal Fetal Medicine School of Women’s and Infant’s Health; The University of Western Australia, Perth, Australia

8:30 a.m. — 9:30 a.m. Can Preterm Birth be Prevented, and if so, By How Much?
John P. Newnham, M.D., Ph.D., Winthrop Professor of Obstetrics (Maternal Fetal Medicine); Head, School of Women’s and Infants’ Health; Deputy Dean, Faculty of Medicine, Dentistry and Health Sciences; The University of Western Australia, Perth, Australia

9:30 a.m. — 10:00 a.m. Break

10:00 a.m. — 11:00 a.m. The Use of Microbicides in the Prevention of Preterm Birth: “Lost in Translation” From Bench to Clinician
Three Steps to Heaven: Agent, Patient, Timing
Ronald F. Lamont, M.D., Department of Gynecology and Obstetrics, Clinical Institute, University of Southern Denmark, Odense University Hospital, Odense, Denmark; Division of Surgery, University College of London, Northwick Park Institute of Medical Research Campus, London, UK
Genital Mycoplasmas: Preterm Birth Risk Modifier or Probiotics?
Ramkumar Menon, Ph.D., M.S., Assistant Professor, Department of Obstetrics and Gynecology, Maternal-Fetal Medicine & Perinatal Research Division, The University of Texas Medical Branch at Galveston, Galveston, TX, USA

11:00 a.m. — 12:00 p.m. Dysregulation of Decidual Cell Progesterone Receptor Activity in Preterm Birth
Charles J. Lockwood, M.D., M.H.C.M., Senior Vice President, USF Health; Dean, Morsani College of Medicine, Professor, Obstetrics and Gynecology; University of Florida, Tampa, FL, USA

12:00 p.m. — 1:30 p.m. Lunch
Scientific Program

Topics and faculty are subject to change.

Wednesday, March 25, continued

**Afternoon Session: 1:30 p.m. — 5:00 p.m.**

**Moderator:** Hanns Helmer, M.D., Vice President, PREBIC, Department of Obstetrics and Maternal-Fetal Medicine, Medical University Vienna, Vienna, Austria

1:30 p.m. — 2:00 p.m.  
**Associations Between Risk Indicators and Preterm Birth: A Structural Approach**  
Frederik J.R. Hermans, M.D., Ph.D., Department of Obstetrics and Gynecology, Academic Medical Center Amsterdam, The Netherlands

2:00 p.m. — 2:30 p.m.  
**Stress and Allostatic Load**  
Gerlinde A. Metz, Ph.D., Professor of Neuroscience, Alberta Heritage Medical Senior Scholar, Canadian Centre for Behavioral Neuroscience, Department of Neuroscience, University of Lethbridge, Alberta, Canada

2:30 p.m. — 3:00 p.m.  
**The Uterine Unfolded Protein Response Regulates Gestational Length**  
Jennifer Condon, Ph.D., Associate Professor, Department of Obstetrics and Gynecology, Wayne State University, Perinatal Research Branch, NICHD, C.S. Mott Center for Human Growth and Development Detroit, MI, USA

3:00 p.m. — 3:30 p.m.  
**Diagnostic and Prognostic Value of Biomarkers of Infection and Inflammation in Preterm Birth**  
Marian Kacerovsky, M.D., Ph.D., Department of OB-GYN and Maternal Fetal Medicine, Charles University in Prague, Faculty of Medicine in Hradec Kralove, Hradec Kralove, Czech Republic

3:30 p.m. — 4:00 p.m.  
**Break**

4:00 p.m. — 5:00 p.m.  
**Preterm Labor — Improving Clinical Outcomes Now and in the Future**  
Jane E. Norman, M.D., FRCOG, FRCPE, FMedSci, Professor of Maternal and Fetal Health; Director of the Tommy's Centre for Maternal and Fetal Health; Vice Principal, Equality and Diversity; University of Edinburgh MRC Centre for Reproductive Health, Queen's Medical Research Institute, Edinburgh, UK

**Endometrium Satellite Meeting: Brave New Worlds: Emerging Research Themes**

**Organizers:** Professor Peter A.W. Rogers, Professor of Women’s Health Research, University of Melbourne Department of Obstetrics & Gynecology, and Research Director, Royal Women’s Hospital, Victoria, Australia  
Asgi T. Fazleabas, Ph.D., Professor and Associate Chair for Research, Department of Obstetrics, Gynecology & Reproductive Biology; Director Center for Women’s Health; Co-Director, Reproductive and Developmental Sciences Program, Michigan State University, Grand Rapids, MI, USA

**Franciscan A & B**

8:30 a.m. — 5:00 p.m.

Morning Session: 8:30 a.m. — 12:00 p.m.

8:30 a.m. — 9:30 a.m.  
**Translational Epigenetics in the Endometrium and Endometriosis**  
Gaurang Daftary, M.D., Department of Obstetrics and Gynecology, Mayo Clinic, Rochester, MN, USA

9:30 a.m. — 10:00 a.m.  
**Break**

10:00 a.m. — 10:30 a.m.  
**Interaction of Genetics and Epigenetics**  
Grant Montgomery, Ph.D., QIMR Berghofer Medical Research Institute, Queensland, Australia

10:30 a.m. — 11:00 a.m.  
**Epigenetic Programming of Endometrial Gene Expression by Estrogens**  
Yaping Zhou, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale University, New Haven, CT, USA

11:00 a.m. — 12:00 p.m.  
**Tissue Engineering of the Endometrium**  
Linda Griffith, Ph.D., Center for Gynecology Research, Massachusetts Institute of Technology, Cambridge, MA, USA

12:00 p.m. — 1:30 p.m.  
**Lunch**
Scientific Program

Topics and faculty are subject to change.

Wednesday, March 25, continued

Afternoon Session: 1:30 p.m. – 5:00 p.m.

1:30 p.m. – 2:30 p.m. The Future of Microbiome Based Medicine
Eric Alm, Ph.D., Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA

2:30 p.m. – 3:00 p.m. Human Endometrial Microbiota, Reality or Fiction?
Carlos Simon, M.D., Ph.D., Department of Obstetrics and Gynecology, Valencia University, Valencia, Spain

3:00 p.m. – 3:30 p.m. Think Global, Act Local: Regulation of the Endometrial Microenvironment in Reproductive Health and Disease
Douglas Gibson, Ph.D., MRC Centre for Reproductive Health, University of Edinburgh, UK

3:30 p.m. – 4:00 p.m. Break

4:00 p.m. – 4:30 p.m. Maternal-Fetal Interactions: A Role for Trophoblast-Derived Exosomes
Margaret G. Petroff, Ph.D., Department of Pathobiology and Diagnostic Investigation, Michigan State University, East Lansing, MI, USA

8:30 a.m. – 5:00 p.m. Myometrium Satellite Meeting

Symposium Coordinators: Rachel Tribe, Ph.D., Reader in Women’s Health, Division of Women’s Health, King’s College London, Women’s Health Academic Centre, King’s Health Partners, London, UK
R. Ann Word, M.D., Professor of Obstetrics and Gynecology, University of Texas Southwestern Medical Center, Dallas, TX, USA

Morning Session: 8:30 a.m. – 12:00 p.m.

8:30 a.m. – 9:00 a.m. Of Mice and Men: Multi-Omics “gang aft a-gley”
Phillip Bennett, M.D, Professor of Obstetrics and Gynecology; Director of the Institute of Reproductive and Development Biology; Imperial College, London, UK

9:00 a.m. – 9:30 a.m. Gene Promoter Occupancy in the Myometrial Genome: What is the Role of NF-kB?
Neil Chapman, Ph.D., Department of Reproductive Medicine, University of Sheffield

9:30 a.m. – 10:00 a.m. Break

10:00 a.m. – 11:00 a.m. Innate and Adaptive Immune Cells in Term and Preterm Labor
Nardhy Gomez-Lopez, Ph.D., Assistant Professor, Director of Perinatal Immunobiology Unit Obstetrics and Gynecology & Immunology and Microbiology School of Medicine, Detroit, MI, USA

11:00 a.m. – 12:00 p.m. Molecular Mechanism Underlying Initiation of Labour
Steve Lye, Ph.D., Senior Investigator, Associate Director, Lunenfeld-Tanenbaum Research Institute, Mt. Sinai Hospital, Toronto, Ontario, Canada

12:00 p.m. – 1:30 p.m. Lunch

Afternoon Session: 1:30 p.m. – 5:00 p.m.

1:30 p.m. – 2:30 p.m. Cervical Hyaluronan — It’s Not What You Think
Mala Mahendra, Ph.D., Department of OB-GYN, Green Center for Reproductive Biology Sciences, University of Texas Southwestern Medical Center

2:30 p.m. – 3:00 p.m. Investigation Tocolytic Efficacy in Multiple Pregnancy
Dr. Sarah Arrowsmith, Department of Cellular and Molecular Physiology, Institute of Translational Medicine, University of Liverpool

3:00 p.m. – 3:30 p.m. Effects of Maternal Nutrition and Inflammation on Risk of Preterm Birth
Hyagriv Simhan, M.D., Chief, Division of Maternal-Fetal Medicine, Magee Women’s Hospital, University of Pittsburgh Medical Center

3:30 p.m. – 4:00 p.m. Break

4:00 p.m. – 5:00 p.m. Genomics, Human Evolution and Birth Timing
Louis Muglia, M.D., Ph.D., Director, Center for Prevention of Preterm Birth; Professor of Pediatrics, University of Cincinnati
Wednesday, March 25, continued

3:00 p.m. – 6:00 p.m.  Registration  Yosemite Foyer
5:15 p.m. – 6:15 p.m.  New Investigator Career Development Session: Good Grantsmanship: The Key to Success  Plaza A
  Thomas Jansson, M.D., Ph.D., University of Colorado School of Medicine
  Stephen Matthews, Ph.D., University of Toronto
5:15 p.m. – 6:15 p.m.  Mid-Career Investigator Career Development Session: Discovery and Development Process for Therapeutics and Diagnostics  Plaza B
  Thomas J. Musci, M.D., Chief Medical Officer, Ariosa Diagnostics
  Ken Song, M.D., Chief Executive Officer, Ariosa Diagnostics
6:45 p.m. – 8:00 p.m.  Opening Reception  Imperial A & B

Thursday, March 26

6:30 a.m. – 7:30 a.m.  Bayer Breakfast Series I: What’s New in Menopausal Hormone Therapy 2015?  Imperial A
  Nanette Santoro, M.D., Professor and E. Stewart Taylor Chair of Obstetrics and Gynecology University of Colorado School of Medicine
7:00 a.m. – 8:00 a.m.  Career Development Meeting (Career Development Committee Only)  Union Square 3 - 4
7:00 a.m. – 6:00 p.m.  Registration  Yosemite Foyer
7:45 a.m. – 10:00 a.m.  Welcome Address, New Investigator Plenary, President’s Distinguished Lecture  Continental 5 - 6
  7:45 a.m. – 8:00 a.m.  President’s Welcome Address
8:00 a.m. – 9:00 a.m.  Presidential New Investigator Plenary Session  Imperial A
  Moderators: Serdar Bulun, M.D., Northwestern University, Chicago, IL, USA
  Hugh Taylor, M.D., Yale University, New Haven, CT, USA
  8:00 a.m. – 8:15 a.m.  Impaired Development of Early Endometriotic Lesions in CD 44 Knockout Mice  Imperial A
  Jennifer Knudtson, M.D.
  8:15 a.m. – 8:30 a.m.  Hsa-miR-30d Is Transported By Exosomes From Human Endometrial Epithelium To the Trophoblast of Preimplantation Embryos and Modulates Embryo Development  Imperial A
  Nuria Balaguer, Ph.D.
  8:30 a.m. – 8:45 a.m.  A Targeted Drug Delivery System for the Uterus  Imperial A
  Jonathan Paul, Ph.D.
  8:45 a.m. – 9:00 a.m.  Molecular Evidence of Functional Progesterone Receptors in Human Endometrial Epithelial Cells  Imperial A
  Lubna Nadeem, Ph.D.
9:00 a.m. – 10:00 a.m.  President’s Distinguished Lecture I  Imperial A
  Sensing and Responding to Microbes: A Forward Genetic Approach  Imperial A
  Bruce Beutler, M.D.
  2011 Nobel Laureate in Physiology or Medicine
  University of Texas Southwestern Medical Center
  Raymond and Ellen Whillie Distinguished Chair in Cancer Research
  Director, Center for Genetics of Host Defense
  Regental Professor, Department of Immunology
10:00 a.m. – 12:00 p.m.  Poster Session I  Imperial A & B
Thursday, March 26, continued

12:00 p.m. – 1:30 p.m. Lunch Symposium: Progestogens and Preterm Birth: From its Molecular Effects on the Uterus and Cervix to its Role in Prevention of Spontaneous Preterm Birth

Moderators: Sam Mesiano, Ph.D.
The Current Use of Progestogens in the Clinical Prevention of Spontaneous Preterm Birth
Hy Simhan, M.D.
Physiology of Progesterone/PR Signaling in the Pregnancy Myometrium
Sam Mesiano, Ph.D.
The Role of Progestogens in Cervical Remodeling
Michael House, M.D.

12:00 p.m. – 1:30 p.m. Past President’s Lunch (By invitation only)

1:45 p.m. – 3:45 p.m. Concurrent Oral Presentations I

Clinical Perinatology
Moderators: Craig E. Pennell, MD, MBBS, Ph.D., FRANZCOG, CNFM
Hilary A. Roeder, M.D.

1:45 p.m. – 2:00 p.m. Hypothalamic Pituitary Adrenal Axis Hormones Are Reduced in Obese Pregnancy
Laura Strotat, MBChB

2:00 p.m. – 2:15 p.m. Mid-Pregnancy Amniotic Fluid Bisphenol A Concentrations and Adverse Pregnancy Outcomes
Shaofu Li, Ph.D.

2:15 p.m. – 2:30 p.m. Maternal Whole Blood Gene Expression Predicts Spontaneous Preterm Birth in Asymptomatic Women as Early as 18 Weeks Gestation
Yujing Jan Heng, Ph.D.

2:30 p.m. – 2:45 p.m. Baseline Uterine Tone in Labor: Does It Matter?
Kristina A. Epplin, M.D.

2:45 p.m. – 3:00 p.m. Placental Shape and Neonatal Body Composition
Nicole E. Marshall, M.D.

3:00 p.m. – 3:15 p.m. Paradigm Shift: Large Neonatal Head Circumference Is More Predictive of Instrumental or Operative Delivery and Neonatal Complications Than Birthweight
Simcha Yagel, M.D.

3:15 p.m. – 3:30 p.m. White Matter Oxygenation Measured By T2* Blood Oxygen Level Dependent (BOLD) Magnetic Resonance Imaging (MRI) Is Lower in Small for Gestational Age (SGA) Fetuses Compared To Gestation Matched Healthy Controls
Fiona C. Denison, M.D.

3:30 p.m. – 3:45 p.m. Giving Birth To a Low Birth Weight Child (LBW) and Risk of Cardiovascular Disease (CVD): Effect of Traditional CVD Risk Factors
Radek Bukowski, M.D., Ph.D.

Gynecology I
Moderators: Ruth A. Word, M.D.
Amelie Fassbender, Ph.D.
Patricia T. Jimenez, M.D.

1:45 p.m. – 2:00 p.m. The Role of IGF2 Signaling in Fibroid Stem Cell Function and Fibroid Pathogenesis
Molly B. Moravek, M.D., MPH

2:00 p.m. – 2:15 p.m. Epigenetic Regulation of DNA Damage/Repair Signaling Pathway in Human Uterine Fibroids
Qiwei Yang, Ph.D.

2:15 p.m. – 2:30 p.m. The Decreased Endometrial Expression of Leukemia Inhibitory Factor and Interleukin-11 at the Implantation Window of Adenomyosis Patients
Chih-Feng Yen, M.D.
Thursday, March 26, continued

2:30 p.m. – 2:45 p.m. Effect of Usage and Type of Hormonal Contraception (HC) on Anti-Mullerian Hormone (AMH) Levels in Young African American Women (AAW)
Marissa L. Steinberg, M.D.

2:45 p.m. – 3:00 p.m. Tubal Ligation May Induce Quiescence of Distal Fallopian Tube Epithelia: A Potential Mechanism for Risk Reduction of Serous Carcinomas
Ekaterina Tiourin

3:00 p.m. – 3:15 p.m. Inflammaging of Uterosacral Ligaments: A Novel Estrogen Modulated Mechanism of Pelvic Organ Prolapse
Ritsuko Iwanaga, Ph.D.

3:15 p.m. – 3:30 p.m. Silicone Vs. Water-Based Lubricant for Symptomatic Vaginal Dryness After Breast Cancer: Preliminary Findings From a Randomized Trial
Martha Hickey, M.D., Ph.D.

3:30 p.m. – 3:45 p.m. The Effects of Hormones on Skin Wrinkles and Rigidity Vary By Race: 4 Year Follow-Up for Skin Characteristics Ancillary Study of the KEEPS Trial
Carter M. Owen, M.D.

Maternal Biology and Health
Moderators: Jorge P. Figueroa, M.D., Ph.D.
Jayanth Ramadoss, Ph.D.

1:45 p.m. – 2:00 p.m. Dose Dependent Association Between Number of Consecutive Miscarriages and Cardiovascular Disease Later in Life — Evidence From a Scottish Cohort
Marise M. Wagner, M.D.

2:00 p.m. – 2:15 p.m. Maternal Cardiovascular Risk Profile After a Pregnancy Complicated By Preterm Intrauterine Growth Restriction
Blanka Vasak, M.D.

2:15 p.m. – 2:30 p.m. Adipose Tissue Inflammation, ER Stress and Insulin Resistance in Obese Pregnant Mice With Fetal Overgrowth
Irving L. Aye, Ph.D.

2:30 p.m. – 2:45 p.m. Placental Lipid Synthetic Pathways Are Impaired By Maternal Insulin Resistance
Luciana Lassance, Ph.D.

2:45 p.m. – 3:00 p.m. Estradiol-17[beta] Stimulates Hydrogen Sulfide Biosynthesis Via Estrogen Receptor (ERalpha/beta)-Dependent Mechanism in Uterine Artery Smooth Muscle Cells
Thomas J. Lechuga, B.S.

3:00 p.m. – 3:15 p.m. Enhanced Angiotensin Type 2 Receptor-Mediated Vasodilation and Blood Flow in Uterine Arteries of Pregnant Rats
Jay Mishra, Ph.D.

3:15 p.m. – 3:30 p.m. Protection From Endotoxin-Induced Hypotension in Pregnancy: Attenuation By CCR2 Deficiency or Pharmacological Inhibition
Laura Howe, MRes

3:30 p.m. – 3:45 p.m. Progestins Impair Anti-Viral Host Defense
Alicia M. McCarthy, M.D., Ph.D.
Parturition I: Cervix, Myometrium, and Membranes

Moderators: Mala Mahendroo, Ph.D.
Xuesen Dong, M.D., Ph.D.

1:45 p.m. – 2:00 p.m. Mouse Myometrial Transcriptome Analysis By RNAseq Shows Inflammation Is a Side-Effect, Not a Requisite, for Labor
Roberta Migale, M.Sc.

2:00 p.m. – 2:15 p.m. Mechanisms Behind a Novel Tocolytic: Blockade of ANOCTAMIN-1 Inhibits Uterine Contractions By Altering Uterine Smooth Muscle Cell Membrane Potential and Thus Intracellular Calcium Levels
Joy Vink, M.D.

2:15 p.m. – 2:30 p.m. Elucidating the Role of miR-143 and miR-145 in Cervical Remodeling and Preterm Birth
Lauren Anton, Ph.D.

2:30 p.m. – 2:45 p.m. Key Determinants of Fetal Fibronectin Extra Domain-A (EDA)-Induced Activation of TLR4
Yoshitsugu Chigusa, M.D., Ph.D.

2:45 p.m. – 3:00 p.m. Oxytocin Modulates a Unique Set of Human Myometrial MicroRNAs
Joanna R. Cook, M.D., MRCOG

3:00 p.m. – 3:15 p.m. Retosiban (GSK221149) – An Orally Active Oxytocin Receptor Antagonist, Prevents Stretch-Induced Stimulation of Human Myometrial Contractility
Alex Moraitis, M.D.

3:15 p.m. – 3:30 p.m. Histone Modifying Enzymes Involved in the Epigenetic Regulation of Labor-Associated Genes in the Amnion
Tamas Zakar, M.D., Ph.D.

3:30 p.m. – 3:45 p.m. Progesterone Inhibits a Critical Pathway for Fetal Membrane Weakening, In Vitro
D. Kumar, M.D.

Preeclampsia I

Moderators: Robert Powers, Ph.D.
Jenny Myers, Ph.D.

1:45 p.m. – 2:00 p.m. Large Cohort Microarray Analysis Reveals Subclasses of Common Pregnancy Pathologies With Correlation To Clinical Presentations and Outcomes
Brian J. Cox, Ph.D.

2:00 p.m. – 2:15 p.m. Poor Placental Vascularization at 12 Weeks of Pregnancy Is Associated With a Specific Cluster of Serum Proteins
Roel de Heus, M.D., Ph.D.

2:15 p.m. – 2:30 p.m. The Role of Aryl Hydrocarbon Receptor Activation in Fetoplacental Endothelial Cell Function and Fetal Growth Restriction
Anna Palatnik, M.D.

2:30 p.m. – 2:45 p.m. The Role of Ca2+ Activated Potassium (KCa) Channels in Enhanced Ca2+ Signaling in Uterine Artery Endothelial Cells (UAEC)
Roxanne E. Alvarez, B.S.

2:45 p.m. – 3:00 p.m. Multiple Cytokines and Growth Factors Associated With Preeclampsia Induce Endothelial Dysfunction in HUVECs Via Src Kinase
Nauman Khurshid, M.D.

3:00 p.m. – 3:15 p.m. Activating Transcription Factor 3 Is Reduced in Preeclampsia and Negatively Regulates sFlt1 and Soluble Endoglin
To’uhevaha Kaitu’o’-Lino, Ph.D.
3:15 p.m. – 3:30 p.m. Low-Dose Aspirin Reduces the Incidence of Preeclampsia in Women With Multiple Gestations and Elevated Human Chorionic Gonadotropin
Anna G. Euser, M.D., Ph.D.

3:30 p.m. – 3:45 p.m. Antiphospholipid Antibody-Induced miR-146a Activates TLR8 in Trophoblast and Is Inhibited By Vitamin D
Stefan M. Gysler, B.S.

Reproductive Endocrinology and Infertility
Moderators: Esther Eisenberg, M.D., MPH
Nataki C. Douglas, M.D., Ph.D.
Karen Berkowitz, M.D.

1:45 p.m. – 2:00 p.m. Distinctive Pattern of miRNAs -200b and -429 Expression in Human Ovulation
Tal Imbar, M.D.

2:00 p.m. – 2:15 p.m. Knockout of AIRE (Autoimmune Regulator) Gene Causes Peri-Implantation Fetal Loss and Rapid Reduction in the Ovarian Follicular Reserve
Lynda K. McGinnis, Ph.D.

2:15 p.m. – 2:30 p.m. The Effect of Pyrroloquinoline Quinone on Meiotic Progression in Aged Mouse Oocytes Fed a Control and High Fat Diet
Violet Klenov, M.D.

2:30 p.m. – 2:45 p.m. The Rate of Serum AMH Decline During Controlled Ovarian Hyperstimulation Is Predictive of IVF Response and Clinical Pregnancy
Aaron K. Styer, M.D.

2:45 p.m. – 3:00 p.m. Altered Local Immune Response in the Granulosa Cells of Women With Polycystic Ovarian Syndrome
Jaye Adams, M.D.

3:00 p.m. – 3:15 p.m. Vitamin D Supplementation Increases Serum Levels of Soluble Receptor for Advanced Glycation End Products Among Women With Polycystic Ovary Syndrome
Abdulrahim Rouzi, M.D., FRCSC

3:15 p.m. – 3:30 p.m. Antioxidants Normalize Obesity-Induced Changes in Gene Expression in Granulosa Cells
Monica Mainigi, M.D.

3:30 p.m. – 3:45 p.m. Vitamin D Reduces the Incidence of Preeclampsia in Women With Multiple Gestations and Elevated Human Chorionic Gonadotropin
Anna G. Euser, M.D., Ph.D.

3:30 p.m. – 3:45 p.m. Antiphospholipid Antibody-Induced miR-146a Activates TLR8 in Trophoblast and Is Inhibited By Vitamin D
Stefan M. Gysler, B.S.

3:45 p.m. – 4:00 p.m. The Weight Is Over: The Impact of Obesity on Antimüllerian Hormone (AMH) in Young African American Women (AAW)
Lia A. Bernardi, M.D.

4:00 p.m. – 6:00 p.m. Mini Symposia I

Coffee Break

4:00 p.m. – 6:00 p.m. Mini Symposia I

Views of the Basic Immune Biology of Pregnancy: Past, Present and Future
Moderator: Elizabeth Bonney, M.D.

4:00 p.m. – 4:30 p.m. What Part of Pregnancy is Immunologically Dangerous?
Polly Matzinger, Ph.D.

4:30 p.m. – 5:00 p.m. Treg Cells at Implantation — MicroRNAs and Other Determinants
Sarah Robertson, Ph.D.

5:00 p.m. – 5:30 p.m. Functional Studies of the Microbiota in Health and Diseases of the Female Urogenital Mucus
Amanda Lewis, Ph.D.

5:30 p.m. – 6:00 p.m. Animal Models of Maternal and Neonatal Immunity
Elizabeth Bonney, M.D.
Thursday, March 26, continued

**Impact of Placental Packages on the Maternal Immune System**
*Moderator: Virginia Winn, M.D., Ph.D.*

- **4:00 p.m. – 4:30 p.m.** Biology of Extracellular Vesicles (Exosomes) in the Immune System
  *Adrian Morelli, M.D., Ph.D.*

- **4:30 p.m. – 5:00 p.m.** Novel Approaches for Analysis of Pregnancy-Related Extracellular Vesicles
  *Rebecca Dragovic, Ph.D.*

- **5:00 p.m. – 5:30 p.m.** Exploring the Role of Placental Exosomes in RA Amelioration
  *Virginia Winn, M.D., Ph.D.*

- **5:30 p.m. – 6:00 p.m.** Vesicle-Based miRNA Communication Among the Placental-Maternal-Fetal Compartments
  *Yoel Sadovsky, M.D.*

**Understanding Prenatal Brain Injury: Advances in Diagnosis and Treatment**
*Moderator: Irina Burd, M.D., Ph.D.*

- **4:00 p.m. – 4:30 p.m.** Understanding Prenatal Brain Injury: Lessons From Animal Models
  *Irina Burd, M.D., Ph.D.*

- **4:30 p.m. – 5:00 p.m.** Mechanisms of Inflammation at the Maternal-Fetal Interface
  *Vikki Abrahams, Ph.D.*

- **5:00 p.m. – 5:30 p.m.** Cell-Based Therapies for Prenatal White Matter Injury?
  *Michael Johnston, M.D.*

- **5:30 p.m. – 6:00 p.m.** Molecular Imaging and Nanotechnology to Prevent CP Caused by IAI

**Endometriosis: Revolutions in an Evolutionary Disease**
*Moderator: Matt Dyson, Ph.D.*

- **4:00 p.m. – 4:30 p.m.** Role of Bone Marrow-Derived Stem Cells in Endometrial Regeneration / Endometriosis
  *Hugh Taylor, M.D.*

- **4:30 p.m. – 5:00 p.m.** An Epigenetic GAIA Switch Causes Pathological Gene Expression in Endometriosis
  *Matt Dyson, Ph.D.*

- **5:00 p.m. – 5:30 p.m.** A Non-Human Primate model of Endometriosis
  *Ov Slayden, Ph.D.*

- **5:30 p.m. – 6:00 p.m.** Mechanism-Based Stratification of Endometriosis Patients
  *Linda Griffith, Ph.D.*

**Advances in Fertility Preservation: From Now to Next**
*Moderator: Francesca Duncan, Ph.D.*

- **4:00 p.m. – 4:30 p.m.** Ovarian Stem Cells: Their Existence and Potential Roles in Infertility Preservation Treatments
  *Evelyn Telfer, Ph.D.*

- **4:30 p.m. – 5:00 p.m.** Non-Human Primate Model of Ovarian Cortical Tissue Vitrification and Transplantation for Fertility Preservation
  *Mary Zelinski, Ph.D.*

- **5:00 p.m. – 5:30 p.m.** Exploring and Expanding Reproductive Options Through in Vitro Follicle Growth Technologies
  *Francesca Duncan, Ph.D.*

- **5:30 p.m. – 6:00 p.m.** Fertility Preservation: A Clinician’s Perspective
  *Mary Ellen Pavone, M.D.*
Thursday, March 26, continued

Digging Deep: Tumor Immunity, Genetics and Genomics Converge in Gynecological Malignancies
Moderator: Kunle Odunsi, M.D., Ph.D.
4:00 p.m. – 4:30 p.m.  Crosstalk Between Cancer Cells and Adipocytes
Ernst Lengyel, M.D., Ph.D.
4:30 p.m. – 5:00 p.m.  A Novel CD4+ T Subset Directly Recognizes Tumor in a Non-Classical Fashion: Implications for Ovarian Cancer Immunotherapy
Kunle Odunsi, M.D.
5:00 p.m. – 5:30 p.m.  Lineage Dependence as a Target for Therapy in High Grade Serous Ovarian Cancer
Kevin Elias, M.D.
5:30 p.m. – 6:00 p.m.  Targeting FANCD2 as a Novel Strategy for Treatment of Ovarian Cancer
Tanja Pejovic, M.D., Ph.D.

Unintended Pregnancy: Scope of Problem, Outcomes and Interventions
Moderator: Alicia Armstrong, M.D.
4:00 p.m. – 4:30 p.m.  Scope of Problem
Sunni Mumford, Ph.D.
4:30 p.m. – 5:00 p.m.  Obstetric Outcomes After Unintended Pregnancies
Allison Bryant, M.D., MPH
5:00 p.m. – 5:30 p.m.  Interventions
Alicia Armstrong, M.D.
5:30 p.m. – 6:00 p.m.  Recent Advances in Contraceptive Research
David Archer, M.D.

6:00 p.m. – 7:30 p.m.  Connection Corners: Bringing Trainees Together
New and Mid-Career Investigators come, meet and ‘connect’ with Senior Investigators about jobs, career advice or just for some friendly banter. Drinks and light appetizers are provided.

Friday, March 27, 2015

6:45 a.m. – 7:45 a.m.  Bayer Breakfast Series II: Abnormal Uterine Bleeding (AUB): Does Mechanistic Insight Offer New Targets for Treatment?
Hilary OD Critchley, M.D.
Professor of Reproductive Medicine
MRC Centre for Reproductive Health
University of Edinburgh
The Queen’s Medical Research Institute

7:00 a.m. – 8:00 a.m.  Minority Career Development Session
Erica Marsh, M.D. Northwestern University
Ramkumar Menon, Ph.D. University of Texas Medical Branch

8:00 a.m. – 9:00 a.m.  President’s Distinguished Lecture II
Autoimmune-Mediated Infertility: Reconsidering Immune Tolerance to Self
Margaret G. Puttoff, Ph.D.
Associate Professor, Department of Pathobiology and Diagnostic Investigation
College of Veterinary Medicine
Michigan State University
East Lansing, Michigan

9:00 a.m. – 11:00 a.m.  Poster Session II
Scientific Program

Topics and faculty are subject to change.

Friday, March 27, continued

11:00 a.m. — 12:30 p.m. Concurrent Oral Presentations II

Developmental Programming I
Moderators: Kent L.R. Thornburg, Ph.D.
Alison Holloway, Ph.D.

11:00 a.m. — 11:15 a.m. Maternal Obesity Programs a Metabolic Syndrome Phenotype in Rat Offspring That Is Ameliorated By Exercise Even in Old Age: It's Never Too Late
Consuelo Lomas, Ph.D.

11:15 a.m. — 11:30 a.m. Markers of Insulin Resistance and Mitochondrial Overload in Young, Low Birth Weight, Male Guinea Pig Offspring
Kristyn Dunlop, B.S.

11:30 a.m. — 11:45 a.m. Perinatal Growth Restriction-Induced Cardiac Remodeling
Vani C. Movva, MBBS

11:45 a.m. — 12:00 p.m. Antenatal Glucocorticoids Lead To Multigenerational Programming of Behaviour Via Paternal Transmission
Vasilis G. Moisiadis, B.Sc.

12:00 p.m. — 12:15 p.m. Antioxidants Reverse Obesity-Induced Transcriptomic Changes in Oocytes
Kathleen O’Neill, M.D.

12:15 p.m. — 12:30 p.m. Exposure To Grandmaternal Low-Protein Diet Gives Rise To Accelerated Reproductive Ageing
Catherine E. Aiken, M.D., Ph.D.

Gynecology Oncology
Moderators: Bo Rueda, Ph.D.
Thangesweran Ayakannu, MRCOG, MBBS, DRCOG

11:00 a.m. — 11:15 a.m. Gene Signature of PTENmutant DICER+/- Endometrial Cancer Predicts Worse Survival
Shannon M. Hawkins, M.D., Ph.D.

11:15 a.m. — 11:30 a.m. Bazodoxifene Reduces FGF18 Expression in Human Endometrial Stromal Cells In Vitro and in Mice through an Increase in HAND2 Expression
Clare A. Flannery, MD.

11:30 a.m. — 11:45 a.m. Transferrin Facilitates DNA-Double Strand Breaks Via Transferrin Receptor 1 in Human Fallopian Tubal Epithelial Cells: Possible Involvement of Transferrin in Carcinogenesis
Shogo Shigeta, M.D.

11:45 a.m. — 12:00 p.m. Cantrixil Induces JNK-Dependent Apoptosis in Ovarian Cancer Stem Cells and Prevents In Vivo Recurrence
Ayesha B. Alvero, M.D., M.Sc.

12:00 p.m. — 12:15 p.m. Chemoresistance in Epithelial Ovarian Cancer Cells Is Controlled By Mechanisms Emanating From Chemotherapy-Induced Genotype Switch in Glutathione Peroxidase, Through the Up-Regulation of Cytidine Deaminase
Nicole M. Fletcher, Ph.D.

12:15 p.m. — 12:30 p.m. Mutations in the PIK3 Pathway as a Major Determinant of Trastuzumab Resistance in Uterine Serous Carcinoma
Jonathan Black, M.D., M.Sc.
### Placenta I

**Moderators:** Tereza Cindrova-Davies, Ph.D.  
Stacy Zamudio, Ph.D.

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:00 a.m. – 11:15 a.m.</td>
<td>Placental Homing Peptide-microRNA-145 Inhibitor Conjugates for Targeted Enhancement of Placenta Growth</td>
<td>Lynda K. Harris, Ph.D.</td>
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<tr>
<td>11:15 a.m. – 11:30 a.m.</td>
<td>Role of Irisin in Modulation of Human Trophoblast Differentiation</td>
<td>Hamid Reza Kohan-Ghadr, Ph.D.</td>
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<td>11:30 a.m. – 11:45 a.m.</td>
<td>Secreted Frizzled Related Protein 1 (sFRP1) May Impair Wnt Signaling To Lead To Fetal Growth Restriction</td>
<td>Alice M. Wang, M.D.</td>
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<tr>
<td>11:45 a.m. – 12:00 p.m.</td>
<td>Alterations To DNA Methylation and Hydroxymethylation in Placenta With Maternal Adiposity</td>
<td>Kohzoh Mitsuya, Ph.D.</td>
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<tr>
<td>12:00 p.m. – 12:15 p.m.</td>
<td>Multiplexed Genotyping and Concurrent Allele-Specific Expression Analysis for Imprinted Gene Verification in Human Placenta</td>
<td>Jill L. Reiter, Ph.D.</td>
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<tr>
<td>12:15 p.m. – 12:30 p.m.</td>
<td>A Mouse Model of Advance Maternal Age - Understanding Older Mothers’ Vulnerability To Late Stillbirth</td>
<td>Samantha C. Lean, B.Sc. (Hons), MRes</td>
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### Pre-Clinical Perinatology Research Models

**Moderators:** Ronald R. Magness, Ph.D.  
Asgerally Fazleabas, Ph.D.

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<tr>
<td>11:00 a.m. – 11:15 a.m.</td>
<td>Increased Nitrotyrosine (NT) Expression in the Pancreas of IUGR Fetal Baboons in Late Gestation Indicates That Fetal Nutrient Restriction Promotes Inflammatory Responses and Oxidative Stress (OS) in the Developing Primate Pancreas</td>
<td>Ablat Tursun, Ph.D.</td>
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<tr>
<td>11:15 a.m. – 11:30 a.m.</td>
<td>Maternal Western-Style Diet Diminishes Placental Perfusion in a Non-Human Primate Model</td>
<td>Jamie Lo, M.D.</td>
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<tr>
<td>11:30 a.m. – 11:45 a.m.</td>
<td>Maternal Antioxidant Treatment Increases Expression of Genes Regulating Hypoxia Signalling, Sodium Movement and Surfactant Maturation in the Fetal Lung</td>
<td>E.V. McGillick, Ph.D.</td>
</tr>
<tr>
<td>11:45 a.m. – 12:00 p.m.</td>
<td>Specific DAMPs Cause Sterile Inflammation of the Chorioamniotic Membranes and Adverse Perinatal Outcomes</td>
<td>Olesya Plazyo, M.Sc.</td>
</tr>
<tr>
<td>12:00 p.m. – 12:15 p.m.</td>
<td>Reduced Glycolytic Pathway in the Placenta With Maternal Obesity</td>
<td>Alina Malayan, Ph.D.</td>
</tr>
<tr>
<td>12:15 p.m. – 12:30 p.m.</td>
<td>Dietary-Induced Obesity Suppresses Expression and Alters Rhythmicity of Clock Genes in Maternal Metabolic Tissues During Rat Gestation</td>
<td>Rachael C. Crew, B.S.</td>
</tr>
</tbody>
</table>
Reproductive Biology I
Moderators: Ov D. Slayden, Ph.D.
Sarah A. Marshall, M.Sc.

11:00 a.m. – 11:15 a.m. Human Endometrial Stromal Cell Connexin (Cx)43 Responds Reversibly To Hormone Stimulation and Withdrawal and Regulates Markers of Angiogenesis and Mesenchymal-Epithelial Transition (MET)
Robert N. Taylor, M.D., Ph.D.

11:15 a.m. – 11:30 a.m. Differences in Phenotypic Features and Hormone Responsiveness Between Healthy Uterine Endometrium and Matched Tubal Epithelium in Women
Eve Bunni, M.Phil.

11:30 a.m. – 11:45 a.m. Epigenetic Therapy: Novel Translational Implications for Arrest of Environmental Dioxin Induced Endometriotic Progression
Zaraq Khan, MBBS

11:45 a.m. – 12:00 p.m. The miR-200 Family Regulates Mesenchymal-Epithelial Transition in Human Endometrial Stromal Cells During Decidualization
Patricia T. Jimenez, M.D.

12:00 p.m. – 12:15 p.m. PER2 Synchronizes Mitotic Transition and Decidual Transformation of Human Endometrial Stromal Cells
Joanne Muter, M.Sc.

12:15 p.m. – 12:30 p.m. Expression and Regulation of the Cysteine-Rich Secretory Proteins CRISPs in the Non-Human Primate Reproductive Tract
Carol B. Hanna, Ph.D.

Stem Cells
Moderators: Carlos Simon, M.D., Ph.D.
Levent Mutlu, M.D.

11:00 a.m. – 11:15 a.m. Bone Marrow-Derived Cells in Murine Endometrium Express Estrogen Receptor Beta
Sara S. Morelli, M.D.

11:15 a.m. – 11:30 a.m. CD146 and CD140b Enrich for Putative Stem/Progenitor Cells in Human Myometrium and Fibroids
Amanda L. Patterson, Ph.D.

11:30 a.m. – 11:45 a.m. Spontaneous Single-Copy Deletion of chr17p13.1 in Human Embryonic Stem Cells Improves Cell Survival By Decreasing Expression of TP53
Hadar Amir, M.D., Ph.D.

11:45 a.m. – 12:00 p.m. Decellularization of the Rat Uterus Yielded Scaffold Capable of Tissue Regeneration Without Immune Rejection Upon Allotransplantation
Kaoru Miyazaki, M.D., Ph.D.

12:00 p.m. – 12:15 p.m. Premature Ovarian Insufficiency (POI) Is Associated With Abnormalities in Ovarian Stem Cells (OSC) in an Allogeneic Non-Human Primate (NHP) Transplant Model
Jaclyn Yu, B.S.

12:15 p.m. – 12:30 p.m. 17beta-Estradiol Enhanced CXCL12/CXCR4 Expression Mediates Bone Marrow-Derived Stem Cell Migration To Human Endometrium
Xiuli Wang, M.D.
Scientific Program

Topics and faculty are subject to change.

Friday, March 27, continued

12:45 p.m. – 2:00 p.m.  Toolbox Symposium

Advances in Gene Editing: Using CRISPR and TALENs in the Development of Non-Human Primate Disease Models
Jon D. Hennebold, Ph.D.
Oregon National Primate Research Center
Oregon Health & Science University
Beaverton, OR

Development in FACS — The Latest in Cell Sorting, Analysis, and Reagents
Rebecca LaFond, Ph.D.
Miltenyi Biotec

12:45 p.m. – 2:00 p.m.  SRI-Pfizer President’s Presenter Awards (By Invitation Only)
Franciscan A & B

2:00 p.m. – 4:00 p.m.  Mini-Symposia II

Understanding Aging and Age-Induced Impairment in Oocyte Quality
In honor of Dr. Robert Jaffe’s outstanding contributions to the field of Reproductive Medicine.
Moderator: Margareta Pisarska, M.D.

Ovarian Aging: From DOR to POF — Pathways of Ovarian Dysfunction
Maragreta Pisarska, M.D.

DNA Repair — An Important Determinant of Oocyte Aging
Kathuk Oktay, M.D.

Mitochondrial Dysfunction and Ovarian Aging
Andrea Jurisicova, Ph.D.

Exomes, Chromosomes and Ovarian Failure
Aleksandar Rajkovic, M.D., Ph.D.

Pelvic Organ Prolapse: Recent Insights and New Treatments
Moderator: Caroline Gargett, Ph.D.

The Genetic Epidemiology of Pelvic Organ Prolapse
Jennifer Wu, M.D., MPH

Inflammaging and Pelvic Support: Is There a Fountain of Youth for the Pelvic Floor?
Kathleen Connell, M.D.

Elastogenesis and Role of Estrogen in Pelvic Organ Prolapse
R Ann Ward, Ph.D.

Endometrial Mesenchymal Stem Cells as Cell-Based Therapy for POP
Caroline Gargett, Ph.D.

Recent Advances in Leiomyoma Therapy: From Conception to Application
Moderator: William Catherino, M.D., Ph.D.

Evolution of Robotic Surgical Management of Uterine Leiomyomas
William Catherino, M.D., Ph.D.

Non-Surgical Procedural Leiomyoma Therapies
Ebbie Stewart, M.D.

Origins, Advances and Controversies in Hysteroscopic Myomectomy
Erica Marsh, M.D.

Medical Management of Leiomyomas: From Bench to Bedside
Kristof Chwalisz, M.D., MPH
**Scientific Program**

*Topics and faculty are subject to change.

**Friday, March 27, continued**

### Immunity and Inflammation in Disease of the Fetus, Neonate and Child

**Moderator:** Kristina Adams Waldorf, M.D.

- **Imperial B**
  
  2:00 p.m. – 2:30 p.m.  
  Molecular Mechanisms Linking Placental Infection, Inflammation and Fetal Injury  
  Kristina Adams Waldorf, M.D.

  2:30 p.m. – 3:00 p.m.  
  Red Blood Cell Alloimmunization During Pregnancy: a First Look at Mechanisms, Consequences and Potential Therapeutics  
  Jeanne Hendrickson, M.D.

  3:00 p.m. – 3:30 p.m.  
  Placental responses mediate adverse effects of maternal immune activation on Neurodevelopment  
  Elaine Hsiao, Ph.D.

  3:30 p.m. – 4:00 p.m.  
  Gestational Gene-Immune Interactions in Neurodevelopmental Disorders  
  Theo Palmner, Ph.D.

### Pregnancy Programming and Implications for Long-Term Health

**Moderator:** Jane Norman, M.D.

- **Continental 5 - 6**
  
  2:00 p.m. – 2:30 p.m.  
  Developmental Programming — Does it Really Exist? Evidence from Human Studies  
  Jane Norman, M.D.

  2:30 p.m. – 3:00 p.m.  
  Placental Nutrient Sensing, Fetal Growth and Later Disease  
  Thomas Jansson, M.D., Ph.D.

  3:00 p.m. – 3:30 p.m.  
  Programming by Maternal Over-Nutrition — A Developing Obesity Crisis  
  Susan Ozanne, Ph.D.

  3:30 p.m. – 4:00 p.m.  
  Maternal Stress, Placental O-GlcNAc Transferase, and Neurodev Disorders  
  Tracy Bale, Ph.D.

### Trophoblast Over-Invasion: The Rise of Placenta Accreta

**Moderator:** Nicholas Illsley, Ph.D.

- **Imperial A**
  
  2:00 p.m. – 2:10 p.m.  
  Placenta Accreta: “The New Epidemic”  
  Abdulla Al-Khan, M.D.

  2:10 p.m. – 2:35 p.m.  
  Abnormal Vascular Architecture at the Placental-Maternal Interface in Abnormally Invasive Placenta  
  Frederic Chantraine, M.D.

  2:35 p.m. – 3:30 p.m.  
  Role in Decidua in Regulating Trophoblast Invasion and Differentiation  
  Judith Bulmer, Ph.D.

  3:00 p.m. – 3:30 p.m.  
  Ultrasound Techniques for Quantification of Severity of Abnormally Invasive Placenta  
  Sally Collins, M.D.

  3:30 p.m. – 4:00 p.m.  
  Clues to the Molecular Etiology of Placenta Accreta  
  Nick Illsley, Ph.D.

4:00 p.m. – 4:15 p.m.  
Coffee Break  
Continental Foyer

4:15 p.m. – 5:45 p.m.  
Concurrent Oral Presentations III

### Fetus I

**Moderators:** Lubo Zhang, Ph.D.  
Stephanie Baello, Ph.D.

- **Continental 1 – 3**
  
  4:15 p.m. – 4:30 p.m.  
  Chronic Fetal Hypoxia in Ovine Pregnancy Triggers a Fetal Origin of Heart Disease That Amplifies With Ageing: Prevention With Maternal Antioxidant Treatment  
  E. J. Camm, Ph.D.

  4:30 p.m. – 4:45 p.m.  
  Blockade of T₃ Reveals the Maturation of p21 Signaling in Fetal Cardiomyocytes  
  N. N. Chattergoon, Ph.D.
### Friday, March 27, continued

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>4:45 p.m. – 5:00 p.m.</td>
<td>Role of Catecholamines in Maternal-Fetal Stress Transfer&lt;br&gt;<strong>Florian Rakers M.D.</strong></td>
</tr>
<tr>
<td>5:00 p.m. – 5:15 p.m.</td>
<td>Fetal NK Cells Contribute To Late-Gestation Fetal Fitness&lt;br&gt;<strong>Beverly Strong, Ph.D.</strong></td>
</tr>
<tr>
<td>5:15 p.m. – 5:30 p.m.</td>
<td>Altered DNA Methylation and Gene Expression of the IGF Axis in Pregnancies Affected By Fetal Growth Disorders&lt;br&gt;<strong>Aamod Nawathe, MRCOG</strong></td>
</tr>
<tr>
<td>5:30 p.m. – 5:45 p.m.</td>
<td>Inadequate Maternal Acquisition of Immune Tolerance During Pregnancy Leads To Trans-Generational IUGR&lt;br&gt;<strong>Daniel A. Kahn, M.D., Ph.D.</strong></td>
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### Gynecology II: Fibroids

Moderators: **James H. Segars**<br>**Shannon Hawkins, M.D., Ph.D.**

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<tr>
<td>4:15 p.m. – 4:30 p.m.</td>
<td>Targeted Adenoviral Vector Demonstrates Enhanced Efficacy and Safety for In Vivo Gene Therapy of Uterine Leiomyoma&lt;br&gt;<strong>Mohamed Abdelaziz, M.D.</strong></td>
</tr>
<tr>
<td>4:30 p.m. – 4:45 p.m.</td>
<td>Progesterone Dependent Paracrine Activation of RANKL/RANK Signaling in Human Uterine Leiomyoma Stem/Progenitor Cells Drives Tumor Growth&lt;br&gt;<strong>Ping Yin, M.D., Ph.D.</strong></td>
</tr>
<tr>
<td>4:45 p.m. – 5:00 p.m.</td>
<td>Inhibition of MicroRNA 29c Expression in Leiomyomas Leads To Up-Regulation of Extracellular Matrix Proteins and DNA Methyltransferase&lt;br&gt;<strong>Omid Khorram, M.D., Ph.D.</strong></td>
</tr>
<tr>
<td>5:00 p.m. – 5:15 p.m.</td>
<td>Ulipristal Acetate Inhibits Extracellular Matrix Production in Human Leiomyomas In Vivo: A Laboratory Analysis of a Randomized Controlled Trial&lt;br&gt;<strong>Jeris Cox, M.D.</strong></td>
</tr>
<tr>
<td>5:15 p.m. – 5:30 p.m.</td>
<td>Pharmacodynamic Effects and Safety of the Novel Selective Progesterone Receptor Modulator Vilaprisan in Healthy Women&lt;br&gt;<strong>Beate Rohde, M.D., Ph.D.</strong></td>
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<tr>
<td>5:30 p.m. – 5:45 p.m.</td>
<td>Is There a Relationship Between the Presence of Fibroids and Antimullerian Hormone (AMH) Concentrations in Young African American Women (AAW)?&lt;br&gt;<strong>Deborah E. Ikhena, M.D.</strong></td>
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### Parturition II: Infection and Microbiome

Moderators: **Sarah K. England, Ph.D.**

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<tr>
<td>4:15 p.m. – 4:30 p.m.</td>
<td>The Immunoproteasome: A Novel Therapeutic Target for Spontaneous Preterm Birth&lt;br&gt;<strong>Stella Liong, Ph.D.</strong></td>
</tr>
<tr>
<td>4:30 p.m. – 4:45 p.m.</td>
<td>Innate Immune Response To Vaginal Commensals&lt;br&gt;<strong>Amy M. Valent, D.O.</strong></td>
</tr>
<tr>
<td>4:45 p.m. – 5:00 p.m.</td>
<td>Acute Subclinical Maternal Inflammation in Late Pregnancy&lt;br&gt;<strong>Maide Ozen, M.D.</strong></td>
</tr>
<tr>
<td>5:00 p.m. – 5:15 p.m.</td>
<td>Maternal Malnutrition Impacts the Holobiome and Gut Transporters&lt;br&gt;<strong>K. L. Connor, Ph.D.</strong></td>
</tr>
<tr>
<td>5:15 p.m. – 5:30 p.m.</td>
<td>Oral Lactobacillus rhamnosus GR-1 L. reuteri RC-14 Does Not Change the Vaginal Microbiota or Cervico-Vaginal Cytokines in Low Risk Pregnant Women With an Abnormal Nugent Score&lt;br&gt;<strong>S. W. Yang, B.S.</strong></td>
</tr>
<tr>
<td>5:30 p.m. – 5:45 p.m.</td>
<td>Viral dsRNA Augments Fetal Membrane Inflammatory Responses To Bacterial LPS By Disabling the TAM Receptor Pathway&lt;br&gt;<strong>Sarah N. Cross, M.D.</strong></td>
</tr>
</tbody>
</table>
**Scientific Program**

**Topics and faculty are subject to change.**

**Friday, March 27, continued**

### Placenta II: Invasion/Angiogenesis

**Moderators:** Margaret G. Petroff, Ph.D.
Sascha Drewlo, Ph.D.

#### 4:15 p.m. – 4:30 p.m.
**Low Molecular Weight Heparin Advances Extravillous Differentiation and Inhibits Cell Death in Human Trophoblast Cells Through HBEGF/ERBB Signaling**

Alan D. Bolnick, M.D.

#### 4:30 p.m. – 4:45 p.m.
**HLA-G Induces Human Trophoblast Migration By Interacting With the Ras Effector RIN1**

Ji-meng Wang, M.D.

#### 4:45 p.m. – 5:00 p.m.
**Impaired Fetoplacental Angiogenesis in Pregnancies Complicated By Severe Fetal Growth Restriction and Abnormal Umbilical Artery Doppler Velocimetry Is Ameliorated By Rescuing Expression of Aryl Hydrcarbon Receptor Nuclear Translocator (ARNT)**

Emily J. Su, M.D.

#### 5:00 p.m. – 5:15 p.m.
**Energy Status and HIF Signaling in Chorionic Villi Show No Evidence of Hypoxic Stress During Human Early Placental Development**

Tereza Cindrova-Davies, Ph.D.

### Preeclampsia II

**Moderators:** Louise C. Kenny, Ph.D., MRCOG
Aruh Jeyabalan, M.D.

#### 4:15 p.m. – 4:30 p.m.
**Pravastatin Quenches Preeclampsia in Humans: A Potential Therapeutic**

Fiona Brownfoot, MBBS

#### 4:30 p.m. – 4:45 p.m.
**4-Methoxyestradiol Induces Proliferation Through a Gxi Protein Coupled Receptor-Dependent Mechanism in Uterine Artery Endothelial Cells Derived From Pregnant Ewes Rosalina Villalon Landeros, B.S.**

#### 4:45 p.m. – 5:00 p.m.
**Salivary Uric Acid Levels in Women Destined To Develop Preeclampsia: Longitudinal Prospective Study**

Bas B. van Rijn, M.D., Ph.D.

#### 5:00 p.m. – 5:15 p.m.
**Increasing the Arginine/ADMA Ratio By Citrulline Administration at 16-20 Weeks Gestation Decreases Blood Pressure and sFLT1, and Increases PlGF at 35 Weeks in Obese Pregnant Women**

Robert W. Powers, Ph.D.

#### 5:15 p.m. – 5:30 p.m.
**Hydrogen Sulphide Rescues Preeclampsia-Like Phenotype Aggravated By High sFlt-1 in Placenta Growth Factor (PlGF) Deficiency**

Shakil Ahmad, Ph.D.

#### 5:30 p.m. – 5:45 p.m.
**Decreased Plasma Hemopexin Activity Is Associated With Increased Placental and Monocyte AF-1 Receptor Expression and Lower Plasma Levels of the AF-1 Receptor in Preeclampsia**

Floor Spaans, Ph.D.
Reproductive Biology II

Moderators: Dharani Hapangama, MBChB, M.D., MRCOG
Emre Seil, M.D.

4:15 p.m. – 4:30 p.m. Mannose-Binding Lectin (MBL) and Interferon Gamma (IFNg) Gene Polymorphisms Influence Susceptibility To Blocked Fallopian Tubes
Joseph Chervenak

4:30 p.m. – 4:45 p.m. Hydrosalpinx Is Associated With Reduced Ovarian Reserve
Shannon Renfrow, M.D.

4:45 p.m. – 5:00 p.m. MCP-1: An Inflammatory Marker That Affects Ovarian Follicular Development in Mice
Zaher Merhi, M.D.

5:00 p.m. – 5:15 p.m. Improvement of Corpus Luteum Function in Obese Women Is Associated With Reduced Pro-Inflammatory Cytokines After Exogenous Estradiol Treatment
Zain A. Al-Safi, M.D.

5:15 p.m. – 5:30 p.m. Analysis of Nanosorted Oocyte Mitochondrial Subpopulations Reveals Active But Reversible Repression of Non-Respiring Mitochondria
Kshama Chandrasekhar, Ph.D.

5:30 p.m. – 5:45 p.m. Antiphospholipid Antibody-Induced Trophoblast miR-146a and IL-8 Is Regulated By the TAM Receptor Ligand Gas6
Vikki M. Abrahams, Ph.D.

6:00 p.m. – 6:45 p.m. SRI Business Meeting (Members only)
Continental 5 - 6

6:45 p.m. – 7:15 p.m. Wine and Cheese Reception
Continental Foyer

7:15 p.m. – 8:00 p.m. New Investigator Awards Ceremony
Continental 5 - 6

Saturday, March 28

6:45 a.m. – 7:45 a.m. Bayer Breakfast Series III: Endometriosis in 2015: Modern Management
Charles Chapron, M.D.
Professor and Chair, Obstetrics, Gynecology and Reproductive Medicine, CHU Cachin, Paris, France
Vice Dean of Paris Descartes University

7:45 a.m. – 9:45 a.m. Poster Session III
Grand Ballroom A & B

8:00 a.m. – 1:00 p.m. Registration
Yosemite Foyer

10:00 a.m. – 11:30 a.m. President’s Address, Awards Ceremony and SRI-Pardi Distinguished Scientist Award and Lecture
Continental 5 – 6

11:30 a.m. – 12:00 p.m. Lunch Break (Boxed Lunch Provided)
Continental Foyer
12:00 p.m. – 1:00 p.m.  **Hot Topics**  
1:15 p.m. – 2:45 p.m.  **Concurrent Oral Presentations IV**

### Developmental Programming II

**Moderators: Antonio E. Frias, M.D.**

1:15 p.m. – 1:30 p.m.  **Prenatal Hypoxia Reduces In Vivo Cardiac Function in Offspring Guinea Pigs**  
Loren P. Thompson, Ph.D.

1:30 p.m. – 1:45 p.m.  **Xanthine Oxidase (XO) Inhibition as Therapy for the Interaction Between Developmental Hypoxia and Ageing in Promoting Cardiovascular Disease Risk**  
B. J. Allison, Ph.D.

1:45 p.m. – 2:00 p.m.  **Accelerated Aging of Cardiac Function in Offspring of Undernourished Pregnant Baboons**  
Peter W. Nathanielsz, M.D., Ph.D.

2:00 p.m. – 2:15 p.m.  **Conjugated Linoleic Acid Supplementation Ameliorates Maternal Obesity-Induced Programming of Metabolic Dysfunction in Male Rat Offspring**  
Stephanie A. Segovia, B.S.

2:15 p.m. – 2:30 p.m.  **Gestational Protein Restriction Causes Hyperglycemia By Affecting IRS-1 Tyrosine Phosphorylation and the Dysregulation of Akt-GSK3 Signaling in Adult Female Offspring**  
Chellakkan S. Blesson, Ph.D., M.Sc.

2:30 p.m. – 2:45 p.m.  **Sex Differences on the Effects of Antenatally To Glucocorticoids on Insulin Resistance in Lean and Obese Adult Sheep**  
Jorge P. Figueroa, M.D., Ph.D.

### Epidemiology/Population Health/Global Health

**Moderators: Deborah Wing, M.D.**

1:15 p.m. – 1:30 p.m.  **Preterm Neonatal Death and Morbidity By Gestational Age: A Contemporary Cohort**  
T. Manuck, M.D.

1:30 p.m. – 1:45 p.m.  **Obstetrical Mode of Delivery and Childhood Mental Illness and Behavior in a British Cohort**  
Eileen A. Curran, MPH

1:45 p.m. – 2:00 p.m.  **Maternal Use of Oral Contraceptives and Risk of Birth Defects**  
Brittany M. Charlan, Sc.D.

2:00 p.m. – 2:15 p.m.  **The Exposure To Known Hazardous Air Pollutants During Pregnancy Varies Significantly Within a Large Urban Population**  
Jensimos Bafas, M.D., MPH

2:15 p.m. – 2:30 p.m.  **Predictors and Modifying Factors for New Onset Depression During the Menopause Transition: A Large Prospective Cohort Study**  
Martha Hickey, M.D., Ph.D.

2:30 p.m. – 2:45 p.m.  **Utilization of Emergency Departments for Care of Menstrual Disorders: Analyses Using the Nationwide Emergency Department Sample (NEDS)**  
Jamie M. McGuire, M.D., MPH
Fetus II

Moderators: Peta Grigsby, Ph.D.
Vladimir E. Vargas, Ph.D.

1:15 p.m. – 1:30 p.m.  Prenatal Glucocorticoid Treatment Matures the Fetal Blood-Brain Barrier (bBB) and Alters Responsiveness To TGF-β1
Stephanie Baello, B.S.

1:30 p.m. – 1:45 p.m.  Mouse Model of Intrauterine Inflammation: Role of Maternal Glucose Supplementation
Jun Lei, Ph.D.

1:45 p.m. – 2:00 p.m.  Blockade of Steroid Sulfatase Augments Fetal Hypothalamus-Pituitary-Adrenal Axis Activity in Late Gestation Fetal Sheep
Charles E. Wood, Ph.D.

2:00 p.m. – 2:15 p.m.  Placental Estrogen Suppresses Cyclin D1 Expression in the Nonhuman Primate Fetal Adrenal Cortex
Eugene D. Albrecht, Ph.D.

2:15 p.m. – 2:30 p.m.  The Effect of Maternal Sildenafil Citrate on the Growth Restricted Fetal Lamb Charlotte J. Oyston, MB ChB, BMedSci

2:30 p.m. – 2:45 p.m.  Targeting Mitochondria-Derived Reactive Oxygen Species (ROS) as Protective Therapy Against Fetal Origins of Cardiovascular Disease
K. L. Skeffington, B.A.

Gynecology III: Endometriosis

Moderators: Robert N. Taylor, M.D., Ph.D.
Aaron K. Styer, M.D.

1:15 p.m. – 1:30 p.m.  Epigenetically Altered Immune Responses Determine Lesion Morphology and Clinical Presentation in Endometriosis
Abigail A. Delaney, M.D.

1:30 p.m. – 1:45 p.m.  Lentiviral Mediated Genetic Manipulation of a Model of Endometriosis
Cynthia Barbara, M.D.

1:45 p.m. – 2:00 p.m.  Platelets Are Responsible for Impaired Natural Killer Cell Cytotoxicity in Endometriosis
Sun-Wei Guo, Ph.D.

2:00 p.m. – 2:15 p.m.  Altered Protein Expression After Induction of Endometriosis in Baboons Using a Proteomics Approach
Dorien O, M.Sc.

2:15 p.m. – 2:30 p.m.  miR451 Is Over-Expressed in Human Endometriotic Implant Tissue and Targets Macrophage Migration Inhibitory Factor To Reduce Cell Survival
Warren B. Nathnick, Ph.D.

2:30 p.m. – 2:45 p.m.  Metformin Inhibits CYP19A1 and StAR Expression in Human Endometriotic Stromal Cells Via AMPK-Mediated Disruption of CREB-CRTC2 Complex Formation
Qing Xue, M.D., Ph.D.
### Parturition III: Hormones and Inflammation

**Moderators:** Jane E. Norman, M.D.
Kristin Connor, Ph.D.

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>1:15 p.m. — 1:30 p.m.</td>
<td>Notch Signaling Is Activated in Inflammation-Induced Preterm Labor and Its Inhibition Reduces the Pro-inflammatory Response</td>
<td>Varkha Agrawal, Ph.D.</td>
</tr>
<tr>
<td>1:30 p.m. — 1:45 p.m.</td>
<td>ERK1/2 MAPK, But Not COX-2, Mediates Interleukin(IL)-1β Decreased Progesterone Receptor Expression in Decidual Cells: A Potential Signaling Pathway That Triggers Functional Progesterone Withdrawal During Inflammation Induced Preterm Birth</td>
<td>Umit A. Kayisli, Ph.D.</td>
</tr>
<tr>
<td>1:45 p.m. — 2:00 p.m.</td>
<td>PGF2αx Promotes Uterine Transformation Through Positive Feedback Interactions and Synergy With IL-1β in Human Myometrium Smooth Muscle Cells (HWSMC)</td>
<td>Kalycia B. Leimert, B.Sc.</td>
</tr>
<tr>
<td>2:00 p.m. — 2:15 p.m.</td>
<td>Progesterone Receptor-α Stability and Repressive Activity Is Increased By Proinflammatory Stimuli in Human Myometrial Cells</td>
<td>Gregory A. Peters, Ph.D.</td>
</tr>
<tr>
<td>2:15 p.m. — 2:30 p.m.</td>
<td>Preterm Cervical Ripening Is More Complex Than Progesterone Withdrawal</td>
<td>Annika Lindqvist, Ph.D.</td>
</tr>
<tr>
<td>2:30 p.m. — 2:45 p.m.</td>
<td>Amniotic Fluid Telomere Fragments: Fetal Signals for Parturition?</td>
<td>Faranak Behnia, M.D.</td>
</tr>
</tbody>
</table>

### Placenta III

**Moderators:** Mana Parast, M.D., Ph.D.
Lydia K. Lee, M.D., Ph.D.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:15 p.m. — 1:30 p.m.</td>
<td>Maternal Folate Deficiency Inhibits Placental mTOR Signaling and Amino Acid Transporter Activity and Causes Fetal Growth Restriction in Mice</td>
<td>Frederick J. Rosario, Ph.D.</td>
</tr>
<tr>
<td>1:30 p.m. — 1:45 p.m.</td>
<td>CGI-58 Is a Key Regulator of Selective Trans-Placental Transfer of Long-Chain Polyunsaturated Fatty Acids (LCPUFA)</td>
<td>Yoel Sadovsky, M.D.</td>
</tr>
<tr>
<td>1:45 p.m. — 2:00 p.m.</td>
<td>Sodium Selenite Protects Syncytiotrophoblast Mitochondrial Respiration Under Conditions of Maternal Obesity and Oxidative Stress</td>
<td>LaShauna Evans, Ph.D.</td>
</tr>
<tr>
<td>2:00 p.m. — 2:15 p.m.</td>
<td>Involvement of STAT3 in the Induction of COX-2 Expression By Cortisol in Human Amnion Fibroblasts</td>
<td>Wangsheng Wang, Ph.D.</td>
</tr>
<tr>
<td>2:15 p.m. — 2:30 p.m.</td>
<td>Placental Macrophages (Hofbauer Cells) Infected With Herpesvirus Activate Human Umbilical Vein Endothelial Cells (HUVECs) Through an IL-1β-Dependent Mechanism</td>
<td>Paul W. Hendrix, D.O.</td>
</tr>
<tr>
<td>2:30 p.m. — 2:45 p.m.</td>
<td>Alarmins Potently Induce Inflammation in Placental Cells and Impair Trophoblast Turnover</td>
<td>Sylvie Girard, Ph.D.</td>
</tr>
</tbody>
</table>

**3:00 p.m. — 3:30 p.m.**

Best New Investigator Poster Awards
Coffee and snack provided

**3:45 p.m. — 5:15 p.m.**

SRI Council Meeting (Council Members Only)
Thank You to Our Supporters & Sponsors
2015 Awards

SRI-Pardi Distinguished Scientist Award
Presented annually to a senior member of the Society who has made significant and lasting contributions to the Society for scientific research in reproductive medicine.

President’s Achievement Award
Presented annually to a junior member of the Society whose record in scientific investigation is outstanding and assures a continued productive career in research.

Frederick Naftolin Award for Mentorship
Established in 2003 to recognize the contributions of a member of the Society to training and career development of investigators in the field of reproductive and women’s health. The award is named in honor of Dr. Naftolin, a former President of the Society and staunch advocate for creating a mechanism for the Society to celebrate outstanding service to our scientific community through excellence in mentoring.

Rogerio A. Lobo Award
Established in 2007 to recognize the most outstanding contribution to Reproductive Sciences by a member of the Society. The award is named in honor of Dr. Lobo, a former President of the Society and former Editor-in-Chief of the Journal of the Society for Gynecologic Investigation (JSGI) which is now Reproductive Sciences.

Pfizer-SRI President’s Presenter’s Award
Originally established to recognize the 25 most meritorious abstracts (either poster or oral presentation) submitted by individuals still in training, the award is used as a means by which to encourage young investigators to present their research at the meeting and to result in the submission of more and better abstracts by those who need encouragement to consider a research career. Fellows and those in both pre and post-doctoral training are eligible to receive the award, which has been generously funded by Pfizer. The 25 awardees will receive a certificate and a check, and their training directors will be honored at a reception.

Giorgio Pardi Foundation President’s Presenter’s Award
The Giorgio Pardi Foundation President’s Presenter Award recognizes the highest ranked abstract within the field of fetal medicine and placental function by a junior investigator still in training. This abstract is presented at the President’s New Investigator Plenary Session and is generously funded by the Giorgio Pardi Foundation, which supports young researchers in the field of obstetrics and gynecology and fosters worldwide scientific cooperation.

The Giorgio Pardi Foundation Travel Awards provides three travel awards to the most highly ranked abstracts submitted from investigators in-training from Italy.

Laxmi Baxi Award
Awarded to Ph.D. individuals who are either graduate students still in training or postdoctoral fellows within five years of their Ph.D. degree to encourage young Ph.D. trainees to present their research at the Annual Meeting. Two $2,000 travel awards will be given to the top abstracts in basic reproductive science and in translational reproductive science. The awardees receive a plaque, check and are honored at the SRI Annual Meeting.

SRI Poster Awards
Awarded to the 20 Best Investigator-in-Training Poster Presentations and presented during a ceremony at the SRI Annual Meeting.

Thomas McDonald Award
The Thomas McDonald Foundation Travel Award acknowledges the highest ranked abstract by an investigator-in-training within the field of fetal neuroscience. This award honors the legacy of Dr. McDonald, whose immense contributions to the field of obstetrics and gynecology focused upon the neuroendocrinology of the developing fetus, placental function, fetal brain development, and uterine contractility.
About SRI

Sixty-One years ago, a small group of investigators studying hypertensive disorders of pregnancy proposed formation of an “Eclampsia” or “Toxemia” society. The first official meeting of “Society of University Gynecologists” was held on June 15, 1953, at the Yale Club in New York City. The name was formally changed to “Society for Gynecologic Investigation” at the annual meeting in Chicago the following year. New strategic planning initiated a change to align the Society’s name with current membership needs and goals, and the name officially changed to “Society for Reproductive Investigation” in July 2014.

The Premier Scientific Organization in Obstetrics and Gynecology, the SRI (formerly SGI) now has almost 1,000 members throughout the world. One-third are basic scientists and two-thirds are clinical investigators. SRI members conduct basic, translational and clinical investigation in the reproductive sciences and women’s health. Areas of focus included obstetrics, perinatology, reproductive genetics, gynecology and gynecologic oncology, endocrinology, reproductive physiology, biochemistry, pharmacology, immunology, epidemiology, reproductive infectious disease and reproductive stem cell and developmental biology.

Mission Statement

The mission of the Society of Reproductive Investigation (SRI) is to advance reproductive and women’s healthcare through outstanding basic, translational, and clinical science and by training and mentoring future generations of investigators.

Membership

Regular Membership may be conferred on those individuals who provide evidence of a doctorate degree (M.D., Ph.D., D Pharm.) and evidence of at least two (2) years of research experience including, but not limited to, postdoctoral, basic science or clinical fellowship. While a minimum of two (2) years should have been spent in this research career, there is no requirement that the nominee should have worked at his/her current institution for two (2) years. Eligible individuals must be nominated. Upon election to membership the newly elected member and sponsoring member will be notified of the fact of his/her election.

Associate Membership is for individuals involved in research and/or health care in Obstetrics and Gynecology, Reproductive Medicine and Biology, or allied fields. This category includes laboratory managers, technologists, clinical research nurses and study coordinators, medical marketing and promotion, non-academic-based researchers, pharmaceutical/biotechnology representatives, among others.

Emeritus Membership status is granted to full members upon request at his/her sixty-fifth birthday and official retirement. The member may elect to stay active for as long as he/she wishes. Once a member elects emeritus status, he/she shall be entitled to all the rights and privileges of the Society, but will not be asked to vote.

Honorary Membership in the SRI is awarded to an individual who has achieved recognition for scientific contributions of an original nature in reproductive biology in which he/she has personally actively participated. This person should have demonstrated by past performance and future objectives that this interest in reproductive biology is dynamic. The individual need not necessarily occupy a position in an institution of higher learning, nor necessarily function in a medical or paramedical area. Honorary Members shall enjoy all of the rights and privileges of other members of the Society, except that they shall not be required to pay any dues or assessments, shall not be entitled to vote at any regular or special meetings of members, nor to hold any elective or appointive office in the Society.

In Training Membership is available for members who are not in a faculty position. They must be a full-time postdoctoral trainee, resident, fellow or student enrolled in a formal approved training program leading to a degree (B.A., B.S., M.D., Ph.D., M.S., M.P.H., D.V.M.). Candidates will be proposed by a member in good-standing of the society. The In Training member will pay nominal dues sufficient to cover administrative costs, may participate in all activities of the society and subscribe to the society’s journal if desired but may not sponsor abstracts or vote. This status expires when the member completes training at which time application for regular membership is expected.
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March 16-19, 2016

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