



American Society for Reproductive Immunology



*Putting Women and Children at the Center of Health
and Development*

ASRI 36th Annual Meeting

November 12-16, 2016

Baltimore, Maryland, USA



Congress Chairs:

Irina Burd Surendra Sharma

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology



www.theasri.org

Welcome to Baltimore

Table of Contents

Co-Chairs Welcome	1
ASRI President Welcome	2
Meeting Objectives	3
Agenda at-a-Glance	4
Detailed Agenda	5
2016 ASRI Awards	13
List of ASRI Meetings	14
Sponsors	15
Invitation to the Next ASRI Meeting	18

Meeting Venue

The 36th Meeting of the American Society for Reproductive Immunology is being held in historically charming Baltimore, Maryland, USA, November 12-16, 2016. The meeting venue is provided by Marriott Camden Yards, situated in the heart of downtown, one of the most popular and diverse urban hubs of culture and business in the world.

Meeting Motto

“Putting Women and Children at the Center of Health and Development”



Welcome from the Co-Chairs

The American Society for Reproductive Immunology

Congress Chairs:

Surendra Sharma
Irina Burd

Program Committee:

Vikki Abrahams
Samar AlSagghaf
Fuller Bazer
Kenneth D. Beaman
Sandra Blois
Jenell Coleman Fennel
Jan Ernerudh
Anna Marie Franchini
Charles Graham
Nazeeh Hanna
Peter Hansen
Bo Jacobsson
Charu Kaushik
Joanne Kwak-Kim
Sung Ki Lee
Da-Jin Li
Yi Lin
Udo Markert
Gil Mor
Troy Ott
Joye Pate
Margaret Petroff
Mercy PrabhuDas
Shigeru Saito
James Segars
G. Taru Sharma
Hiroaki Shibahara
Michael Soares
Chandrakant Tayade
Charles R. Wira
Aeuro Yamada
Tatsuo Yamamoto
Nanbert Zhong

Dear Colleagues and Friends,

It gives us great pleasure to welcome you to the 36th annual meeting of the American Society of Reproductive Immunology to be held on November 14-16 in Baltimore, the city that gave us our National Anthem “The Star Spangled Banner— “and the city built on tradition and civic pride. This year’s conference theme is “Putting Women and Children at the Center of Health and Development”. The overall goal is to reach new heights in Reproductive Immunology. To accomplish our goals, the meeting program is designed to provide a comprehensive and stimulating balance between basic science and clinical research with focus on cutting edge research and technologies. To follow a long-held tradition, this ASRI annual meeting is again intended to serve the needs of physicians, clinicians/scientists, basic scientists, young investigators, fellows, graduate students, laboratory personnel, and most importantly the public.

As detailed in the program, attendees will benefit from a pre-meeting Clinical Symposium “Combating Continuum of Pregnancy Complications” (November 12-13), which focuses on clinical tools and new methodology, emerging viral infections and pregnancy outcomes, and biomarkers for adverse pregnancy outcomes. The annual meeting will expand on these and other themes with mechanistic underpinnings. Participants will hear from world leaders in their field and talented early career investigators.

To encourage young investigators to join the field of Reproductive Immunology and Medicine, the annual conference provides a platform for them in the form of the Gusdon Award presentations and oral presentations selected from the abstracts. All participants will have the opportunity to present their work in the poster format. Keynote lectures by Dr. Bali Pulendran, Emory University, and Dr. Cathy Spong, Deputy Director, NICHD, are designed to provide discussion on contemporary topics in immunology and reproductive medicine. The President’s Symposium is always a highlight of the meeting. The relevance of maternal immune system never diminishes, as we again face the Zika virus epidemic. This topic will be extensively covered in the 36th annual meeting.

Keeping our intent and focus in mind, the 36th annual meeting is designed to provide a unique platform for career advancement as it blends learning with networking for young scientists irrespective of ethnic background, gender and sexual preference. We encourage our young investigators by inviting them to be part of all aspects of our conference. As challenges grow and opportunities abound, it is great time to be a reproductive immunologist, since ours is a discipline that brings both clinicians and basic researchers together. Reproductive health issues are no longer focused exclusively on pregnancy, but now encompass the entire life cycle of men and women (from birth to chronic diseases in later life).

We take this opportunity to thank our numerous sponsors and benefactors listed at the end of this program for generously supporting our mission. We look forward to meeting you at the 36th annual meeting and enjoying together the great science and the fun of Baltimore.

Warm welcome,

Surendra Sharma, MD, PhD



Departments of
Pediatrics and Pathology
Women & Infants’
Hospital of Rhode Island

Irina Burd, MD, PhD



Department of Gynecology &
Obstetrics
Johns Hopkins University



ASRI

American Society for
Reproductive Immunology

Welcome from the ASRI President

The American Society for Reproductive Immunology

Executive Council

President

Kenneth Beaman, Ph.D.
(2014-2016)

Vice President

Tatsuo Yamamoto, M.D.,
Ph.D.
(2014-2016)

President-Elect

Nazeeh Hanna, M.D.
(2016-2018)

Treasurer

Evangelos Ntrivalos, M.D.,
Ph.D.
(2014-2017)

Secretary

Joanne Kwak-Kim, M.D.
(2014-2017)

Councilors

Svetlana Dambaeva M.D.,
Ph.D.
(2015-2018)

Raina Fichorova M.D., Ph.D.
(2015-2018)

Atsushi Fukui, M.D., Ph.D.
(2014-2017)

Joy Pate, Ph.D.
(2013-2016)

Chandra Tayade, Ph.D.
(2013-2016)

Past Presidents

Udo Markert, M.D.

Surendra Sharma, M.D., Ph.D.

Editor-In-Chief, AJRI

Gil Mor, M.D., Ph.D.

Dear Colleagues and Friends,

It is my great pleasure, once again to invite all of you to the ASRI 36th Annual Meeting in Baltimore, Maryland, on November 12-16, 2016. Drs. Irina Burd and Surendra Sharma have put together an excellent program. There will be a number of excellent presentations on important topics including new cutting edge research data. I look forward to seeing everyone there.

We are doing a couple of unique things this year. The first is we have changed the season of our meeting from spring to fall. We did this to support the International Societies' spring meeting. Secondly we have created a Clinical Symposium to begin the meeting. I hope most of you will be able to attend the meeting and help our society to gain and maintain our importance to human, animal and experimental reproductive success. I never cease to be impressed by the increase in the knowledge that the study of Reproductive Immunology can bring to our understanding of immunology and reproduction as well as cancer, infections or transplantation. I am so pleased to be the president of such a society.

As a special note: We have a number of new important things to examine and vote on at our annual meeting. We need to discuss at least three things; 1) Are the changes in the time of year better or should they be changed? 2) Is the clinical program useful? and 3) Did these changes affect positively or negatively on our meeting attendance specifically and our society in general. We will have our business meeting this year at 12:45 pm on Tuesday, November 15th. Please plan to attend and be involved with our society's continued success.

This year, I have read a large number of outstanding articles published by our members: congratulations. This reminds me, as always, to encourage you to support our excellent journal. The American Society Journal, the AJRI is led by our fine Editor in Chief, Gil Mor, and continues to be a source of truly exciting and very important information covering every aspect of the reproductive immunology field. Please remember, when you publish in AJRI you, help our society to be the premier society in our field; you represent the society to the other scientists colleagues as the most interested and presumably, informed audience in reproductive immunology.

Finally, I wish to sincerely thank all of you who are committed and support our science. I hope to see you in Baltimore, Maryland this November and, looking further, in Chicago, Illinois in 2017 hosted by Rush Medical School. Please help me keep our society great.

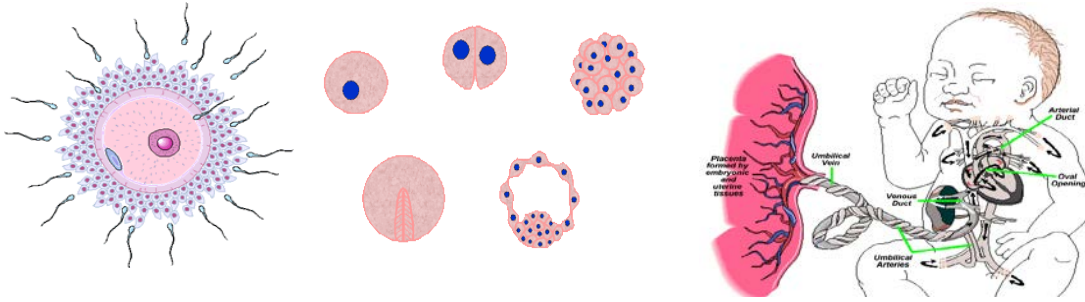
As always,



Kenneth D. Beaman, Ph.D., D(ABMLI), CC(ABB)
President, American Society for Reproductive Immunology



Meeting Objectives



The American Society for Reproductive Immunology (ASRI) was founded to foster the field of Reproductive Immunology so both clinicians and basic researchers could better understand the immune-based etiologies underlying reproductive anomalies. The annual ASRI meetings are designed to acquaint attendees with new questions and new techniques underlying the normal and abnormal events at the maternal-fetal interface. It is increasingly clear that the immunity, placenta and hormones play a pivotal role in orchestrating *in utero* embryonic development. There appears to be a composite triad of dynamic equilibrium involving the placental milieu, the fetus and the mother. Thus, the maternal-fetal interface can provide a blueprint for the events that lead to a normal or a compromised pregnancy. Recent revolutionary advances in technical know-how and thematic excellence now make it possible to not only investigate the issues in animals but to transport this knowledge from bench to bedside. The Clinical Symposium and the 36th Annual meeting will focus on recent state of the art techniques and themes. Each topic will be lectured by an expert in the respective field. At the end of the meeting, all participants should be able to:

- Evaluate epigenetics and exosomes in placenta and their clinical relationship
- Apply recent state-of-the art techniques and themes in obstetrics
- Explain the role of inflammatory immune responses in obstetrical complications such as pre-eclampsia and preterm labor.
- Evaluate the neurological control of inflammatory immune response
- Assess the consequences of Zika virus pandemic on pregnancy outcome.
- Assess whether we are winning the war against HIV
- Understand the interplay between hormones, mucosal immunity, semen factors, and susceptibility to HIV
- Understand the role of microbiome in adverse pregnancy outcomes
- Assess progress in vaccines for STIs
- Evaluate specialized immunity in male and female reproduction
- Debate mouse to human continuum in reproduction

This conference has been approved for 18 CME (accrediting institution: Chicago Medical School at Rosalind Franklin University of Medicine and Science)

Meeting Objectives

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

Program at-a-Glance

**Saturday
November 12**

**CLINICAL
SYMPOSIUM
Registration &
Breakfast**

7:00-10:00 AM
University Ballroom Foyer

Welcome Address
8:15-8:30 AM
University Ballroom

Teaching Session 1
8:30-10:00 AM
University Ballroom

Coffee Break
10:00-10:15 AM
University Ballroom Foyer

Teaching Session 2
10:15-11:45 AM
University Ballroom

Lunch
12:00-1:20 PM
University Ballroom Foyer

Teaching Session 3
1:20-4:15 PM
University Ballroom

Coffee Break
4:00-4:15 PM
University Ballroom Foyer

Teaching Session 4
4:15-5:00 PM
University Ballroom

**Sunday
November 13**

**Registration &
Breakfast**
7:00-10:00 AM
University Ballroom Foyer

Teaching Session 5
8:30-10:00 AM
University Ballroom

Coffee Break
10:00-10:15 AM
University Ballroom Foyer

Teaching Session 6
10:15-12:15 PM
University Ballroom

Lunch
12:15-1:30 PM
University Ballroom Foyer

Teaching Session 7
1:30-4:00PM
University Ballroom

Welcome Reception
6:00-8:00 PM
University Ballroom

**Monday
November 14**

**MAIN MEETING
Breakfast**
7:00-8:15 AM
Grand Ballroom Foyer

Registration
7:00-8:15 AM
Grand Ballroom Foyer

**Welcome &
Announcements**
8:15-8:30 AM
Grand Ballroom

Keynote Address
8:30-9:15 AM
Grand Ballroom

General Session 1
9:15-10:45 AM
Grand Ballroom

Coffee Break
10:45-11:00 AM
Grand Ballroom Foyer

General Session 2
11:00-1:00 PM
Grand Ballroom

Lunch
1:00-2:00 PM
Grand Ballroom Foyer

ASRI Council Meeting
1:00-2:00 PM
Chesapeake Room

General Session 3
2:00-3:50 PM
Grand Ballroom

Coffee Break
3:50-4:05 PM
Grand Ballroom

AJRI Award Lecture
4:05-4:35 PM
Grand Ballroom

**John P. Gusdon Award
Competition**
4:35-5:47 PM
Grand Ballroom

**AJRI Editorial Board
Meeting**
6:30-8:30 PM
Chesapeake Room

**Tuesday
November 15**

Breakfast
7:00-8:30 AM
Grand Ballroom Foyer

Registration
7:00-8:15 AM
Grand Ballroom Foyer

Keynote Address
8:30-9:15 AM
Grand Ballroom

General Session 4
9:15-10:45 AM
Grand Ballroom

Coffee Break
10:45-11:00 AM
Grand Ballroom Foyer

General Session 5
11:00-12:50 PM
Grand Ballroom

Lunch
12:50-1:50 PM

**ASRI General Meeting
12:50-1:50 PM**
(members invited)
Grand Ballroom

Poster Session
1:50-3:00 PM
University Ballroom

J. Christian Herr Lecture
3:30-4:00 PM
Grand Ballroom

Presidential Session
4:00-5:30 PM
Grand Ballroom

Cocktail Hour
6:30-7:30 PM
Chesapeake Room

Gala and Awards Banquet
7:30-10:00 PM
Stadium Ballroom

**Wednesday
November 16**

Breakfast
7:30-8:30 AM
Grand Ballroom Foyer

General Session 6
8:30-11:00 AM
Grand Ballroom

Coffee Break
11:00-11:15 AM
Grand Ballroom Foyer

General Session 7
11:00-12:45 AM
Grand Ballroom

Lunch/Poster Session
12:45-1:45 PM
University Ballroom

General Session 8
1:45-3:45 PM
Grand Ballroom

MEETING CONCLUDED



Clinical Symposium Combating Continuum of Pregnancy Complications

Saturday, November 12, 2016

7:00 - 10:00 AM

Registration – University Ballroom

8:15 - 8:30 AM

Welcome address - University Ballroom

Combating Continuum of Pregnancy Complications

Drs. Irina Burd and Surendra Sharma

Session 1. Mechanisms and consequences of adverse pregnancy outcomes- University Ballroom

Chairs: Drs. Surendra Sharma and Irina Burd

8:30 - 9:00 AM

Dr. Bo Jacobsson, University of Gothenburg, Sweden

Intra-amniotic infection and inflammation in relation to pregnancy outcomes

9:00 - 9:30 AM

Dr. Errol Norwitz, Tufts University, USA

Molecular regulation of adverse pregnancy outcome: inflammation and “the decidual clock”

9:30 - 10:00 AM

Dr. Udo Markert, Friedrich-Schiller-University, Germany

Trophoblast communication with immune cells via miRNA transported by extracellular vesicles

10:00- 10:15 AM

Coffee Break- University Ballroom Foyer

Session 2. Clinical tools and new methodology - University Ballroom

Chairs: Drs. Nazeeh Hanna and Jun Lei

10:15- 10:45 AM

Dr. Nanbert Zhong, Nanfang Hospital of Southern Medical University, China and New York State Institute, USA

How to connect omics data with clinical research?

10:45-11:15 AM

Dr. Xingde Li, Johns Hopkins University School of Medicine, USA

Optical microimaging technologies and their potential for assessing preterm birth risk

11:15-11:45 AM

Dr. Laura Ensing, Johns Hopkins University School of Medicine, USA

Nanomedicine for preterm birth

12:00-1:20 PM

Lunch

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

Session 3. Emerging viral infections and reproductive immunology - University Ballroom

Chairs: Drs. Nahida Chakhtoura and Jeanne Sheffield

- 1:20-1:50 PM Dr. Sabra Klein, Johns Hopkins School of Public Health, USA
Sex and sex steroids affect the outcome of influenza infection and vaccination
- 1:50-2:20 PM Dr. Brenna Hughes, Duke University, USA
Zika virus- a little perspective
- 2:20-2:50 PM Dr. Yoel Sadovsky, Magee-Womens Research Institute, USA
Multiple pathways underlie anti-viral signal by human placental trophoblasts
- 2:50-3:20 PM Dr. Gil Mor, Yale University School of Medicine, USA
Viral Infections during pregnancy: maternal and fetal consequences
- 3:20-3:50 PM Dr. Nahida Chakhtoura, NIH/NICHD, USA
Zika from NICHD perspective
- 4:00-4:15 PM **Coffee Break-** University Ballroom Foyer

Session 4. NIH Update: Placenta -University Ballroom

Chairs: Drs. Irina Burd and Surendra Sharma

- 4:15- 5:00 PM Dr. David Weinberg, NIH/NICHD, USA
The Human Placenta Project: Current progress and future directions

Sunday, November 13, 2015

7:00- 10:00 AM **Registration** - University Ballroom Foyer

Session 5. Adverse pregnancy continuum - University Ballroom

Chairs: Drs. Gil Mor and Donna Neale

- 8:30- 9:00 AM Dr. Joanne Kwak-Kim, Rosalind Franklin University, USA
Endometrial gene expressions for immune profiling in recurrent pregnancy losses are different from those of repeated implantation failures and infertility
- 9:00-9:30 AM Dr. Michael W. Varner, University of Utah, USA
Preeclampsia: Early and late
- 9:30-10:00 AM Dr. Nazeeh Hanna, Winthrop University Hospital, USA
Efficacy of progesterone therapy for midtrimester short cervix is conditional on intra-amniotic inflammation
- 10:00-10:15 AM **Coffee Break-** University Ballroom Foyer

Session 6. Clinical tools and methodology for REI

Chairs: Drs. Jeffrey Braverman and Udo Markert

- 10:15- 10:45 AM Dr. Mindy Christianson, Johns Hopkins University School of Medicine, USA
Female fertility preservation: Current choices and future directions

Sunday

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

10:45-11:15 AM	Dr. Monica Mainigi, University of Pennsylvania, USA <i>Molecular mechanisms responsible for adverse outcomes associated with assisted reproduction</i>
11:15-11:45 AM	Dr. Lynae Brayboy, Brown University, USA <i>Molecular variations between young and aged oocytes</i>
11:45-12:15 PM	Dr. Winifred Mak, Yale University School of Medicine, USA <i>Diagnostic dilemma of recurrent pregnancy loss</i>

Session 7. Multidisciplinary approach to study pregnancy complications: Biomarkers for future health **Chairs: Drs. Laura Goetzl and Michael Tsimis**

1:30-2:00 PM	Dr. A. Jason Vaught, Johns Hopkins University School of Medicine, USA <i>Complement upregulation via the alternative pathway in HELLP syndrome</i>
2:00-2:30 PM	Dr. Ahmet Baschat, Johns Hopkins University School of Medicine, USA <i>First trimester personalized prediction of pre-eclampsia – an opportunity to improve maternal & child health</i>
2:30-3:00 PM	Coffee Break- University Ballroom Foyer
3:00- 3:30 PM	Dr. Kenneth Beaman, Rosalind Franklin University, USA <i>Importance of immune markers before pregnancy in predicting pregnancy outcome</i>
3:30-4:00 PM	Dr. Abimbola Aina-Mumuney, Johns Hopkins University School of Medicine, USA <i>Innovation to overcome clinical obstacles to accurate preterm labor detection</i>
6:00 PM	Reception - University Ballroom

36th Annual Meeting

Putting Women and Children at the Center of Health and Development

Monday, November 14, 2015

7:00- 8:15 AM **Breakfast-** Grand Ballroom Foyer
7:00- 10:00 AM **Registration-** Grand Ballroom Foyer
8:15- 8:30 AM **Welcome and announcements -** Grand Ballroom
(Drs. Irina Burd, Surendra Sharma and Kenneth Beaman)

8:30- 9:15 AM **Keynote Address: Dr. Bali Pulendran, Emory University, USA**
Systems-based approaches to vaccine development
Chairs: Drs. Surendra Sharma and Irina Burd

Session 1. Mouse to human continuum: Reproductive debate (Sponsored by Johns Hopkins University)

Chairs: Drs. PK Lala and Ram Menon

9:15-9:45 AM Dr. Ronald G Tompkins, Massachusetts General Hospital, USA
Genomic responses in mouse models poorly mimic human inflammatory diseases

9:45-10:15 AM Dr. Guillermina Girardi, Edinburgh Research Center, UK
It all started with a mouse. How animal models helped the identification of a treatment to prevent preeclampsia in patients with antiphospholipid syndrome

10:15-10:45 AM Oral presentations selected from abstracts

Dr. Svetlana Dambaeva, Rosalind Franklin University, USA
Molecular profiling of endometrium to determine uterine receptivity

Dr. Ayano Funamizu, Hirosaki University of Medicine, Japan
Hormonal treatment for women with endometriosis affects the expression of Natural Cytotoxicity Receptors on NK cells

Dr. Devin McGee, Michigan State University, USA
Cervical viral infection causes estrogen receptor stabilization and premature cervical ripening

10:45- 11:00 AM **Coffee Break –** Grand Ballroom

Session 2. Specialized immunity in reproduction: From men to women (Sponsored by Princess Nourah Bint Abdul Rahman University)

Chairs: Drs. Jeffrey Braverman, Samar Al Sagghaf, and CK Hughes

11:00-11:30 AM Dr. John Schjenken, Robinson Institute, Australia
Seminal fluid regulation of microRNAs in the peri-conception immune environment and role in pregnancy success

11:30-12:00 PM Dr. Jan Ernerudh, Linköping University, Sweden
Interactions between the fetal placenta, decidual stroma and decidual immune cells as early steps in fetal tolerance

Monday

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

12:00-12:30 PM	Dr. Andreas Meinhardt, University of Giessen, Germany <i>The roles of pathogen and host in the immunopathology leading to male infertility</i>
12:30-1:00 PM	Oral presentations selected from abstracts Dr. Kristen Mueller, McMaster University, Canada <i>Female sex hormones influence intravaginal HIV-1 infection and dissemination in a humanized mouse model</i> Dr. Landon G. vom Steeg, Johns Hopkins School of Public Health, USA <i>Age and testosterone shift virus-specific CD8+ T cell and regulatory T cell responses during influenza virus infection in male mice</i>
1:00- 2:00 PM	Lunch
1:00- 2:00 PM	ASRI Council Meeting - Chesapeake Room
<u>Session 3. Immune mechanisms at the maternal-fetal interface: Spotlight on the placenta (Sponsored by China Human Placenta Project)</u>	
Chairs: Drs. Don Tory, Animesh Barua and Solange Eloundou	
2:00-2:30 PM	Dr. Merci PrabhuDas, NIH, USA <i>Inflammation, immunity, and pregnancy: Challenges and opportunities</i>
2:30-3:00 PM	Dr. Sandra Blois, Charité - Universitätsmedizin Berlin, Germany <i>Galectin-3 in pregnancy: Relation with health and disease</i>
3:00-3:30 PM	Dr. Vikki Abrahams, Yale University School of Medicine, USA <i>Novel placental innate immune signaling pathways</i>
3:30-3:50 PM	Oral presentations selected from abstracts Dr. Indira Mysorekar, Washington University School of Medicine, USA <i>Zika virus takes transplacental route to fetal infection</i> Dr. Akitoshi Nakashima, Women and Infants Hospital, Brown University, USA <i>Preeclampsia serum disrupts the autophagy/lysosome pathway via inhibiting nuclear translocation of transcription factor EB (TFEB)</i>
3:50-4:05PM	Coffee Break- Grand Ballroom Foyer
4:05-4:35 PM	AJRI Award Lecture – Grand Ballroom Dr. Joanne Kwak-Kim, Rosalind Franklin University <i>Time to delve into immune etiology of infertility</i>
4:35-5:47 PM	John P. Gusdon Award Competition Top 6 ranked abstracts will present 12-minute oral presentations. Dr. Puja Bagri (category: basic science), McMaster University, Canada <i>IL-17 plays a critical role in mediating efficient anti-viral memory responses in the female genital tract</i> Dr. Robert Lindau (category: clinical), Linköping University, Sweden <i>Decidual stromal cells induce homeostatic M2 macrophages</i>

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

Dr. Mark Bustoros (category: basic science), Winthrop University Hospital, USA

Exosomes mediate endotoxin tolerance in human placenta

Dr. Jamie Fierce (category: clinical), Women and Infants Hospital and Warren Alpert Medical School of Brown University, USA

Serum protein aggregates as indicators of preeclampsia and gestational diabetes

Dr. Samantha Sheller (category: basic science), University of Texas Medical Branch at Galveston, USA

Functional role of human amnion epithelial cell-derived fetal exosomes on uterine cells and their trafficking in murine models of pregnancy

Dr. Nayoung Sung (category: clinical), Rosalind Franklin University, USA
Women with a history of GnRH analogue exposure have increased TH1 immunity during index IVF cycle

6:30-8:30 PM

AJRI Editorial Board Meeting – Chesapeake Room

Tuesday November 15, 2016

7:30- 8:30 AM

Breakfast – Grand Ballroom

7:00- 10:00 AM

Registration – Grand Ballroom Foyer

8:30- 9:15 AM

Keynote Address: Dr. Catherine Spong (NICHD), USA

NICHD Maternal-Child Health Research and Opportunities: From A to Zika

Chairs: Drs. Irina Burd and Surendra Sharma

Session 4. Mechanistic continuum in adverse pregnancy outcomes (Sponsored by Brown University, Women and Infants Hospital)

Chairs: Drs. Leif Matthiesen and Jaimie Fierce

9:15-9:45 AM

Dr. James Padbury, Brown University, USA

Targeted sequencing and meta-analysis of preterm birth

9:45-10:15 AM

Dr. Elizabeth Bonney, University of Vermont, USA

Pregnancy and three theories of immune tolerance

10:15-10:45 AM

Dr. Larry Chamley, University of Auckland, New Zealand

Antiphospholipid antibodies, the syncytiotrophoblast and mitochondria: A recipe for cell death

10:45- 11:00 AM

Coffee Break- Grand Ballroom

Tuesday

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

Session 5. Concepts in large animal research

Chairs: Drs. Sung Ki Lee and Karen Racicot

- 11:00-11:30 AM Dr. Taru Sharma, ICAR, Izatnagar, India
Excisional wound healing: An experimental approach to evaluate the differentiation and immunomodulatory potential of Caprine fetal adnexa derived stem cells
- 11:30-12:00 PM Dr. Rita Driggers, Johns Hopkins University School of Medicine, USA
Zika – prolonged viremia an indication of congenital infection?
- 12:00-12:30 PM Dr. Peta Grigsby, Oregon Health and Science University, USA
Zika Virus during Pregnancy in the Non-Human Primate: Maternal-feto-placental inflammatory responses
- 12:30-12:50 PM Oral presentations selected from abstracts
- Dr. Jae Won Han, Konyang University Hospital, Republic of Korea
Activation of NOD-1/JNK/IL-8 signal axis in decidual stromal cells facilitates invasion of trophoblasts
- Dr. Linda Mae Wetzel, Pennsylvania State University, USA
Bovine luteal macrophage protein expression changes throughout the luteal phase and luteolysis
- 12:50- 1:50 PM **Lunch**
- 12:50-1:50 PM **ASRI General Meeting (all members invited)- Grand Ballroom**
- 1:50- 3:30 PM **Poster Session- University Ballroom**
- 3:30-4:00 PM **J. Christian Herr Lecture- Grand Ballroom**
Dr. Da-Jin Li, Fudan University Shanghai Medical College, China
Co-stimulatory signal at maternal-fetal interface
- 4:00-5:30 PM **Presidential session (Supported by Rosalind Franklin University)**
Chair: Dr. Kenneth Beaman

Dr. Adrian Erlebacher, University of California San Francisco, USA
Epigenetics of decidual inflammation
Dr. Kenneth Beaman, Rosalind Franklin University, USA
The immune system in pregnancy: What was once thought to be bad is now thought to be good
- 6:30– 7:30 PM **Cocktail hour -Chesapeake Room**
- 7:30– 10:00 PM **Gala and Awards Banquet- Stadium Ballroom**

Wednesday, November 16, 2016

7:30- 8:30 AM Breakfast – University Ballroom Foyer

Session 6. Are we winning the war against HIV?

Chairs: Drs. Charles Wira and Fulvia Veronese

- 8:30-9:00 AM Dr. Charles Wira, Dartmouth University, USA
Interplay between sex hormones, mucosal immunology and susceptibility to HIV infection in the female reproductive tract

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

Wednesday

- 9:00-9:30 AM Dr. Sharron Hillier, University of Pennsylvania, USA
Overview of HIV prevention (microbicides and vaccines)
- 9:30-10:00 AM Dr. Douglas Kwon, Harvard University, USA
Association between injectable progestin-only contraceptives and HIV acquisition and HIV target cell frequency in the female genital tract
- 10:30-11:00 AM Dr. Jenell Coleman, Johns Hopkins University School of Medicine, USA
Impact of medroxyprogesterone acetate on HIV susceptibility and pre-exposure prophylaxis
- 11:00- 11:15 AM **Coffee Break – Grand Ballroom**

Session 7. Viruses, microbes and adverse pregnancy outcomes

Chairs: Drs. Gil Mor and Akitoshi Nakashima

- 11:15-11:45 AM Dr. Michal Elovitz, University of Pennsylvania, USA
Cervicovaginal microbiota and preterm birth
- 11:45-12:15 AM Dr. Indira U. Mysorekar, Washington University, USA
Spatial variation in microbiota within the human placenta
- 12:15-12:45 AM Oral presentations selected from abstracts
- Dr. Paulomi Aldo, Yale University School of Medicine, USA
Effect of HSV-2 infection on TAM receptors expression in first trimester trophoblast cells
- Dr. Maureen Grundy, Johns Hopkins University School of Medicine, USA
Streptococcus pseudoporcinus colonization in pregnancy: Implications for perinatal outcomes
- Dr. Meghan Vermillion, Johns Hopkins Bloomberg School of Public Health, USA
Zika virus infection of pregnant outbred mice as a model of human fetal disease
- 12:45-1:45 PM **Lunch/poster session continued**

Session 8. Mucosal immunity: Progress in vaccines for STIs (Sponsored by Society for Mucosal Immunology)

Chairs: Drs. Ken Beagley and Puja Bagri

- 1:45-2:15 PM Dr. Michael Russel, University of Buffalo, USA
A novel approach to vaccination against Neisseria gonorrhoeae
- 2:15-2:45 PM Dr. Ali Fatton, NanoBio Corporation, USA
Development of vaccines for genital Herpes infection: use of a novel nanoemulsion adjuvant
- 2:45-3:15 PM Dr. Ken Beagley, Institute of Health and Biomedical Innovation
Queensland University of Technology, Australia
Development of vaccines for Chlamydia trachomatis: should we target infection or disease?
- 3:15-3:45 PM Dr. Charu Kaushic, McMaster University, Canada
Regulation of mucosal immune responses in reproductive tract by sex hormones: Understanding the mechanism and implications

Meeting Concluded – Thank You

ASRI 36th Annual Meeting

The American Society for Reproductive Immunology

ASRI Awards

The following ASRI Awards will be presented on Tuesday at the Awards Celebration:

The AJRI Award will be presented to a senior investigator who has made outstanding clinical or basic research contributions in the area of reproductive immunology.

The J. Christian Herr Award will be presented to a member of the ASRI, in the first 10-15 years beyond accepting a faculty position, who has made outstanding achievements in basic or applied research in reproductive immunology, particularly involved in technology transfer. This award was established by a past president of ASRI to acknowledge the dedication of his father to invention, innovation and entrepreneurship.

The Dr. John Gusdon Memorial New Investigator Award will be presented to a new investigator with trainee status (graduate student, postdoctoral scientist, or resident) who has made a significant contribution by presenting an outstanding research paper during the annual meeting. This award is given annual in memory of Dr. John Gusdon, a founding member of ASRI, and an advocate of student participation in ASRI meetings.

Distinguished Service Award is given periodically and not more than annually, to a member of the ASRI who has provided distinguished service to advance the goals and mission of the society.

Travel Grants will be awarded to trainees from selected abstracts to support travel to the ASRI 2015 Meeting.

Best Image Competition Award will be given to the selected image/picture submitted by a meeting attendee.



ASRI Meetings

1980	Mount Sinai Medical Center, NY	N. Gleicher
1981	Mount Sinai Medical Center, NY	N. Gleicher
1982	Bowman Gray, Winston-Salem, NC	J. Gudson, Jr.
1983	University of Utah, Salt Lake City, UT	J.R. Scott
1984	Duke University, Durham, NC	S. Gall
1985	University of Michigan, Ann Arbor, MI	A.E. Beer
1986	Toronto, Canada ¹	D. Clark
1987	Indianapolis, IN	C. Coulam
1988	University of Maine, Prout's Neck, ME	N.S. Rote
1989	University of Maine, Prout's Neck, ME	N.S. Rote
1990	Chicago, IL	N. Gleicher
1991	University of Virginia, Charlottesville, VA	J. Heff
1992	University of S. Carolina, Charleston, SC	S. Mathur
1993	Denver, CO ²	J. Head
1994	Thomas Jefferson Univ, Philadelphia, PA	B. Smith
1995	Washington, DC ²	C. Coulam
1996	University of Tennessee	D. Torry
1997	University of British Columbia	M. Stephenson
1998	Finch Univ of Health Science, Chicago, IL	K. Beaman
1999	Cooperstown, NY	S.P. Mathur
2000	University of Florida	P.J. Hansen
2001	Finch Univ of Health Science, Chicago, IL	J.Y.H. Kwak-Kim
2002	Finch Univ of Health Science, Chicago, IL	J.Y.H. Kwak-Kim
2003	Yale University, New Haven, CT	G. Mor
2004	Univ Southern IL, Saint Louis, MO	P. Ahlering
2005	Brown University, Providence, IL	S. Sharma
2006	Vanderbilt University, Nashville, TN	G. Yeaman
2007	McMaster University, Ontario, Canada	C. Kaushic
2008	Rush University, Chicago, IL	J. Lubosrky
2009	University of Florida, Gainesville, FL	P. Hansen
2010	Woodlands Resort, Farmington, PA	T. Ott
2011	Salt Lake City, UT	C.J. Davies
2012	Hamburg, Germany ³	P. Arck
2013	Boston, MA ⁴	C. Wira, S. Sharma, G. Mor
2014	Long Beach, NY	N. Hanna, R. Fichorova, J. Braverman
2015	Kingston, Ontario, Canada	C. Tayade
2016	Baltimore, Maryland	S. Sharma, I. Burd
2017	Chicago, Illinois	A. Barua, M. Bradaric, J. Kwak-Kim

¹ Held jointly with the International Society for Immunology of Reproduction

² Held jointly with the American Association of Immunologists

³ Held jointly with the European Society for Reproductive Immunology

⁴ Held jointly with the International Society for Immunology of Reproduction

Thank You to Our Sponsors

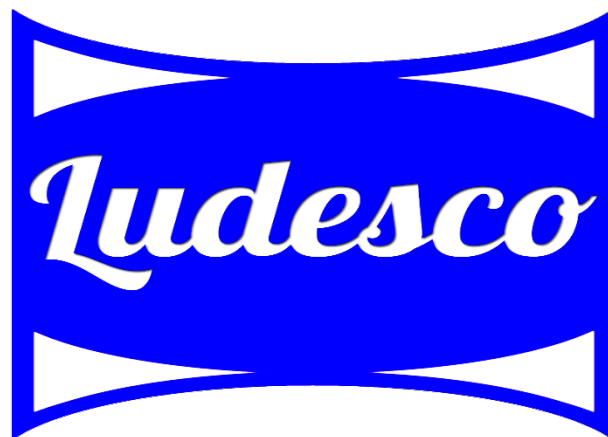
The American Society for Reproductive Immunology

WE WOULD LIKE TO THANK OUR SPONSORS:

JACK & DOROTHY BYRNE
FOUNDATION



Women & Infants
A MEMBER OF CARE NEW ENGLAND



Thank You to Our Sponsors

The American Society for Reproductive Immunology



Health Gates



ROSALIND FRANKLIN
UNIVERSITY
of MEDICINE AND SCIENCE

Thank You to Our Sponsors

The American Society for Reproductive Immunology



BURROUGHS
WELLCOME
FUND 



SOCIETY FOR
MUCOSAL IMMUNOLOGY



جامعة الأميرة نورة بنت عبد الرحمن
Princess Nourah bint Abdulrahman University



gapps

an initiative of Seattle Children's

GLOBAL ALLIANCE TO PREVENT
PREMATURITY AND STILLBIRTH



**American Society for Reproductive
Immunology**

Save the Date
The 37th Annual Meeting of the ASRI
Chicago, IL, USA

17-20 September, 2017



Animesh Barua, PhD
Rush University Medical Center
Meeting Chair

Michael Bradaric, PhD
Rush University Medical Center
Meeting Co-Chair



Joannne Kwak-Kim, MD, MPH
Rosalind Franklin University of
Medicine and Science
Meeting Co-Chair

