American Society for Reproductive Immunology

2nd Clinical Reproductive Immunology Symposium

“Using Reproductive Immunology to Improve Clinical Practices”

Omni New Haven Hotel At Yale, New Haven, Ct, USA
October 27-28th, 2012
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Meeting Chairs’ Welcome

Dear ASRI Members and Friends,

Welcome to the American Society for Reproductive Immunology’s 2nd Clinical Reproductive Immunology Symposium: "Using Reproductive Immunology to Improve Clinical Practices". The goal of this meeting is to disseminate up-to-date Clinical Reproductive Immunology information, and how it relates to current and novel clinical practices, diagnostics, and therapeutics for women's reproductive and pregnancy related issues, with a view to bridging the distance between clinicians and translational researchers.

The ASRI is committed to promoting human health by providing a platform for communication among basic, translational, and clinical practitioners and trainees in Reproductive Medicine. Knowledge generated by basic and clinical science is dramatically changing the way medicine is practiced. Equally important is how medicine has redefined questions asked by basic scientists. Therefore, training programs that can provide clinicians to broaden their overall knowledge of the pathophysiology of human diseases, diagnostics, and treatment options as well as asking questions from a disease-oriented point-of-view are in critical demand.

This symposium represents the ASRI’s second consolidated effort to establish a strong physician-centric agenda and is aimed at directly delivering the current up-to-date translational information in Reproductive Immunology to the practicing physicians and physician-scientists to facilitate the application of research outcome to the current medical practice.

I look forward to an exciting meeting here in New Haven.

Vikki M. Abrahams, PhD

Meeting Chair, 2nd Clinical Reproductive Immunology Symposium
Learning Objectives

• To recognize current and novel ways to diagnose and treat preeclampsia.

• To review new concepts of the impact obesity and diabetes have on obstetrical outcomes, and review the current diagnostic and therapeutic options.

• To illustrate the contributions that the female reproductive tract microbiome has on reproductive health and pregnancy outcomes, and review the potential benefits of probiotics.

• To explain Reproductive Immunology-based laboratory techniques and how they can be applied to improving patient care and management.

• To evaluate the current methods for diagnosing and treating pregnant women with lupus and antiphospholipid syndrome and integrate new concepts of immune cell and autoantibody profiles and in these patients.

• To describe the recent advances in the prediction and treatment of women at risk for infection-associated preterm birth.

Accreditation and Designation Statement

This activity has been planned and implemented in accordance with the essential areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Rosalind Franklin University of Medicine & Science and the American Society for Reproductive Immunology. Rosalind Franklin University of Medicine & Science is accredited by the ACCME to provide continuing medical education for physicians. Rosalind Franklin University of Medicine & Science designates this educational activity for a maximum of 11.0 AMA PRA Category 1 Credit(s) TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.
Meeting Sponsors

The ASRI would like to acknowledge and thank the following sponsors for their generous support of the society’s 2\textsuperscript{nd} Clinical Reproductive Immunology Symposium:
Speakers

Elizabeth Bonney, MD  University of Vermont, USA
Silvia Daher, PhD  Sao Paulo Federal University, Brazil
Raina N. Fichorova, MD, PhD  Brigham & Women's Hospital, Harvard, USA
Christina Han, MD  Yale University, USA
Joanne Kwak-Kim, MD  Rosalind Franklin University, USA
Michael Lockshin, MD  Hospital for Special Surgery, USA
Udo Markert, MD  Friedrich-Schiller-Universität, Germany
Gil Mor, MD, PhD  Yale University, USA
Jane Norman, MD  Queen's Medical Research Institute, Edinburgh
Errol Norwitz, MD, PhD  Tufts Medical Center, USA
Evangelos Ntrivalas, MD, PhD  Foundation for Blood Research, USA
Michael Paidas, MD  Yale University, USA
Mana M. Parast, MD, PhD  University of California San Diego, USA
Gregor Reid, PhD  University of Western Ontario, Canada
Roberto Romero, MD  Perinatology Research Branch, NIH, USA
Shigeru Saito, MD, PhD  University of Toyama, Japan
Clare Tower, MD, PhD  Manchester University, UK
Meeting Program

Saturday October 27th 2012

7.00am - 5.00pm Registration  [Foyer College]

7.00am - 7.50am Breakfast  [Chapel]

College Meeting Room

7.50am  Welcome and Opening Address
Vikki M. Abrahams, PhD

7.55am  Presidential Greetings
Udo Markert, MD

Session I: Preeclampsia

Chair  Surendra Sharma, MD, PhD

8.00am  Novel insights into the role of the adaptive immune system in preeclampsia: regulatory and cytotoxic T cells
Mana M. Parast, MD, PhD

8.30am  Biomarkers of preeclampsia for the risk assessment of patients early in pregnancy
Errol Norwitz, MD, PhD

9.00am  Exploring the role of antithrombin replacement for the treatment of preeclampsia: PRESERVE 1
Michael Paidas, MD

9.30am  Questions and Answers

9.50am  Coffee break  [Foyer College]
Session II: Maternal Obesity and Diabetes

Chair Silvia Daher, PhD

10.10am Effects of glucose on placental inflammation
Christina Han, MD

10.40am The link between obesity and the maternal immune system
Jane Norman, MD

11.10am Profiling inflammatory mediators in gestational diabetes mellitus
Silvia Daher, PhD

11.40am Questions and Answers

12.00pm Lunch [Chapel]

Session III: The microbiome and reproduction

Chair Charles Wira, PhD

1.00pm Regulation of the vaginal microflora and its impact on reproductive health
Raina N. Fichorova, MD, PhD

1.30pm The relationship between the vaginal microbiome and spontaneous preterm labor.
Roberto Romero, MD

2.00pm Can probiotics improve reproductive health and pregnancy outcome?
Gregor Reid, PhD

2.30am Questions and Answers

2.50pm Coffee Break [Foyer College]
Session IV: Demystifying laboratory techniques of Reproductive Immunology for the Clinician

Chair  Raina N. Fichorova, MD, PhD

3.10pm  Protein and microRNA detection in tissues and biological fluids by multiplex analysis
         Udo Markert, MD

3.40pm  Cell-based assays for immunophenotyping and function using flow cytometry
         Evangelos Ntrivalas, MD, PhD

4.10pm  Animal Models of Adverse Pregnancy Outcomes
         Elizabeth Bonney, MD

4.40pm  Questions and Answers

5.00pm  Adjourn

6.00pm  Dinner  [Chapel]

Sunday October 28th 2012

7.00am - 10.00am  Registration  [Foyer College]

7.30am - 8.30am  Breakfast  [Chapel]

College Meeting Room

Session V: Infection, Inflammation and Preterm Birth

Chair  Elizabeth Bonney, MD, PhD

8.30am  The role of inflammation and the immune system in preterm labor
         Gil Mor, MD, PhD

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9.00am  Novel methods to detect infection for predicting the prognosis of preterm birth  
Shigeru Saito, MD, PhD

9.30am  Molecular imaging and nanomedicine to prevent infection/neuroinflammation-induced cerebral palsy.  
Roberto Romero, MD

10.00am Questions and Answers

10.20am Coffee break  [College Foyer]

**Session VI: Autoimmunity and Pregnancy**

*Chair*  
*Joanne Kwak-Kim, MD*

10.40am Using antiphospholipid antibodies to predict adverse pregnancy outcome  
Michael Lockshin, MD

11.10am Regulatory T cells in lupus and pregnancy  
Clare Tower, MD, PhD

11.40am Management of the patient with an antiphospholipid antibody  
Joanne Kwak-Kim, MD

12.10pm Questions and Answers

12.30pm Closing Remarks and Meeting Adjourn  
Vikki M. Abrahams, PhD

**Speaker Disclosure:**
None of the above speakers have any financial relationship to the topic of this aciidity. None of the above speakers are receiving any commercial support.
Building Bridges in Reproductive Immunology
International Society for Immunology of Reproduction
Hosted by American Society of Reproductive Immunology

May 28 – June 01, 2013
Boston Park Plaza Hotel, Boston, Massachusetts, USA

ISIR Keynote Speaker
Dr. Francoise Barre-Sinoussi
Director Unité de Régulation des Infections Rétrovirales, Institut Pasteur
Nobel Prize Winner in Physiology/Medicine 2008

Scientific Sessions
- Immunology, Implantation and Assisted Reproductive Technology
- Mucosal Immunology and Sexually Transmitted Infections
- New Concepts in HIV Susceptibility and Acquisition
- Autoimmunity, Endocrine Disorders and Reproduction
- Novel Concepts in Immunological Tolerance at the Maternal-Fetal Interface
- Immune Related Pregnancy Complications
- Role of Mesenchymal Stem Cells in Reproductive Development and Pathogenesis
- Immunology of Preeclampsia
- Male Infertility: Includes Contraception and Vaccines
- Biomarker Discoveries in Reproduction

Scientific Program Committee
Chair: Surendra Sharma
Co-Chair: Chuck Wira
Udo Markert
Gerard Chaouat
Charu Kaushic
Troy Ott
Joanne Kwak-Kim
Ian Sargent
Satish Gupta
Shigeru Saito
Gil Mor
Julia Szekeres-Bartho

More information and to register, go to:
www.regonline.com/ISIR2013

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