



ASRI MEETING OVERVIEW

MEETING OBJECTIVES

At the conclusion of the meeting, all participants should be able to:

- I. Summarize recent advances in understanding of mechanism of action and potential interventions including vaccines to combat infections of the reproductive tract.
- II. Explain new and novel technologies in the field of reproductive immunology that permit access to early in utero environment.
- III. Evaluate the latest cutting-edge research to understand developmental origins of adult health.

 IV. Value being an active participant in making the academic environment more equitable and inclusive.

CME ACCREDITATION

Amedco LLC designates this live activity for a maximum of **36.5 AMA PRA Category 1 Credits**™.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

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ABOUT ASRI

The American Society for Reproductive Immunology (ASRI) was founded in 1981 with the mission to foster the development of reproductive immunology research, increase intellectual exchange between clinical and basic branches of reproductive immunology and provide mentoring for scientists-in-training.

The ASRI is home to a diverse membership that includes clinical and basic scientists specializing in Obstetrics & Gynecology, Reproductive Biology, Microbiology, Mucosal Immunology, Genetics, Pediatrics, Infectious Diseases, Endocrinology, Pathology and Animal Sciences.

Since its inception, the society has held an annual meeting to promote collaboration, cross-disciplinary research and mentorship within the field of Reproductive Immunology.



WELCOME FROM THE ASRI PRESIDENT

Dear Colleagues and Friends,

Welcome to the 42nd Annual Meeting of the American Society for Reproductive Immunology (ASRI) in the heart of historic Santa Fe, New Mexico! The theme of the ASRI 2023 is appropriate for our times and the beautiful surroundings for our meeting, "The Convergence of Scientific Research adn Clinical Medicine in Reproductive Immunology." Program Co-Chairs, Drs. Gil Mor, Surendra Sharma and Chuck Wira, along with the Program Committee have assembled a wonderful program highlighting the most up-to-date scientific advances in the field of Reproductive Immunology.

Through the year, we continued to work on our strategic plan, adopted by the ASRI Council, and are excited to provide services for continuing medical education of Reproductive Immunology Fellows. In an effort to promote standardization of training for fellows, ASRI has developed a formal process for eligible programs to earn an endorsement of the ASRI as an approved fellowship in Clinical Reproductive Immunology. Furthermore, ASRI has developed guidelines for training programs that address specific curricular elements, scholarship, clinical experience along with faculty support and continuing medical education. Towards the support of the clinical fellowships, Drs. Gil Mor and Joanne Kwak-Kim compiled a one-day Clinical Course in Reproductive Immunology which will precede the annual meeting.

More than ever in the current times of burn out, it is important to pay attention to our junior membership, supporting diversity, equity, and inclusion in science, making sure that young investigators are valued, sponsored, and feeling supported. I am very excited about the work of all of our committees this year, especially paying attention to these important issues. I am looking forward to hearing the reports from our committees at our business meeting and welcome all of you attend the business meeting as well.

I am excited that the ASRI Annual Meeting is planned this year to be in-person and will bring together research scientists and health care providers from around the world. The ASRI was founded to foster the field of Reproductive Immunology so that clinicians and basic scientists could better understand immune-based etiologies of underlying reproductive diseases. We hope that the networking at the annual meeting will energize ASRI members and guests for future collaborations among clinicians and scientists. So, we are waiting for you at the La Fonda on the Plaza hotel to celebrate the convergence of science!

Sincerely,

Irina Burd, MD, PhD ASRI President

University of Maryland



WELCOME FROM THE MEETING CHAIRS



EXECUTIVE COUNCIL

President Irina Burd, MD, PhD

Vice President Akitoshi Nakashima, PhD

Treasurer Ana Zenclussen, PhD

Secretary Indira Mysorekar, PhD

President-Elect David Aronoff, PhD

Immediate Past President Gil Mor, MD, PhD

Editor-In-Chief, AJRI Surendra Sharma, MD, PhD

> Historian Nazeeh Hanna, MD

Councilors

Ramkumar Menon, MD Elizabeth Enninga, PhD Sylvie Girard, PhD Marta Rodriguez-Garcia, MD, PhD Charles Wira, PhD

> **Executive Director** Karen Gottlieb, CMP

Dear Colleagues,

On behalf of the American Society for Reproductive Immunology, it is with great enthusiasm that we invite you to attend our 42nd Annual Meeting, to be held in Santa Fe, New Mexico. This meeting brings together basic scientists, clinician-scientists and healthcare providers who work together to translate scientific discoveries into improved patient care.

The Santa Fe River was the reason humans came to this area several thousand years ago, and the river runs through the heart of Santa Fe for 46 miles to its confluence with the Rio Grande. Fitting with the region's deep history, the theme for this years' meeting is "The Convergence of Scientific Research and Clinical Medicine in Reproductive Immunology". This meeting brings together basic scientists, clinician-scientists and healthcare providers who work together to translate scientific discoveries into improved patient care.

The Scientific Program committee has put together an exciting schedule of events, including plenary and break-out sessions led by leading national and international experts in the fields of Obstetrics & Gynecology, Immunology, Pediatrics, Infectious Diseases, Genetics, and Developmental Biology.

We are super excited about this year's program, which consists of 18 cuttingedge sessions proposed by our members, in addition to 4 plenary sessions, a trainee competition, poster presentations and multiple networking events. This years' program promises to promote innovation and diversification of reproductive immunology and generate a valuable learning experience.

We hope you will take advantage of all that Santa Fe has to offer during your stay - from historic architecture and native pueblos to world-class art galleries, outdoor activities and abundant local culture, the "City Different" offers a variety of experiences for everyone.

Welcome to Santa Fe!

Gil Mor, MD, PhD Wayne State Univ.

Meeting Co-Chair



Surendra Sharma, MD, PhD Women & Infants Hospital Meeting Co-Chair

Smiller



Charles R. Wira, PhD Dartmouth College Meeting Co-Chair

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AGENDA AT-A-GLANCE

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SATURDAY, MAY 20

3:00 - 6:00 REGISTRATION Lumpkins Mezzanine

4:00 - 6:00	CLINICAL COURSE IN REPRODUCTIVE IMMUNOLOGY (\$)	Lumpkins North
	Welcome Remarks / Course Introduction - Joanne Kwak-Kim & Gil Mor	
	SESSION I: Infertility and Implantation Failures	
4:00	Rafat Abbasi, Columbia Fertility - Autoimmune Oophoritis and Reprodu	uctive Failures
4:30	Yasuyuki Negishi, Nippon Medical School - Immune Inflammatory Resp	
5:00	Koji Nakagawa, Sugiyama Clinic Shinjuku - Immunotherapy with Tacrol	•
	Women with Immunological Rejection	
5:30	Richard Pilsner, Wayne State University - Sperm Aging and Immunity	
6:00 - 7:00	CLINICAL FELLOWSHIP REUNION	Lumpkins Mezzanine
	Informal networking/light reception	

SUNDAY, MAY 21

12:00 - 6:00 REGISTRATION Lumpkins Mezzanine

All Day	CLINICAL COURSE IN REPRODUCTIVE IMMUNOLOGY (\$)	Lumpkins North
	Chairs: Joanne Kwak-Kim & Gil Mor	
	CECCION III. I about the Colon and Danied dusting Failure	
	SESSION II: Laboratory Sciences and Reproductive Failure	
8:00	Kenneth Beaman, Rosalind Franklin University - Laboratory Evalua	tion for Women with RF
8:30	Evan Ntrivalas, Memorial Sloan Kettering - Flow Cytometric Analys	is of Peripheral Immune
	Cells in Women with Reproductive Failure	
9:00	Raphael Stricker, Alan E. Beer Medical Center for Reproductive Imn	nunology - Autoimmune
	Responses in Women with Reproductive Failure	3,
9:30	Amy Thees, Rosalind Franklin University - Targeted Gene Expressio	n Profiling for Endometrial
9.50		Trioning for Endometrial
	Dysregulation in Patients with Reproductive Failure	
10:00 -10:15	COFFEE BREAK	Lumpkins Mezzanine
	CECCION III. D	d D
	SESSION III: Recurrent Pregnancy Losses, Rheumatic Disease a	- ·
10:15	Joanne Kwak-Kim, Rosalind Franklin University - Update in Recurre	ent Pregnancy Losses:
	Thyroid Autoimmunity	
10:45	Marcelo Cavalcante, Universidade de Fortaleza, Brasil - Current Evi	dence on Immunotherapies;
	Immunization with Lymphocytes, Llpid Emulsions, and Recombina	ant G-CSF
11:15	Andrew Wong, UCLA - Rheumatic Disease and Pregnancy I	
11:45	· · · · · · · · · · · · · · · · · · ·	soaso and Prognancy II
11.43	Kristen Demoruelle, Colorado University, Anschutz - Rheumatic Di	sease and Fregulaticy II

SUNDAY, MAY 21

12:15 - 1:15	CLINICAL COURSE LUNCH:	La Terraza Rooftop
	How to Set Up a Guideline for Immunological Assessment and	
	Management in Patients with Pregnancy Loss and Implantation Fa	ilures?
12:15	Giovanni Jubiz, Center for Reproductive Immunology & Infertility - Available Immunologic Testing for Implantation Failure and Recurrent Pregnancy Loss	
12:45	Ricardo Barini, UNICAMP - Available Therapies for Implantation Failure and Recurrent Pregnancy Loss	
1:15 - 3:15	SESSION IV: Infection and Pregnancy	Lumpkins North
1:15	Gil Mor, Wayne State University - How Pregnancy Deals with Viral Infections	
1:45	Vikki Abrahams, Yale University - Role of Antiphospholipid Antibodies in Adverse Pregnancy	
	Outcomes	- ,
2:15	Babbette LaMarca, UMC - CD4+ T Cells from Preeclamptic Patients Caus	e Hypertension,
	Autoantibodies and Cognitive Dysfunction in a Pregnant Rat Model	
2:45	Elizabeth Enninga, Mayo Clinic - The Role of Occult Infection in the Pathogenesis of CHI/VUE	
3:15 - 4:45	Executive Council Meeting (ASRI Council & Committee Chairs only)	Ballen Ballroom
J. 1J - T.TJ	Executive Council Meeting (ASM Council & Committee Chairs Only)	Danieli Daniooni
5:00 - 5:15	Welcome Remarks & Introduction	Lumpkins Ballroom
3.30 3.13		24

5:15 - 6:15 **PL1: KEYNOTE LECTURE**

Lumpkins Ballroom



The Primary Significance of Secondary Findings in Maternal Health Research

Keynote Speaker:

Diana W. Bianchi, MD

Director, Eunice Kennedy Shriver

National Institute of Child Health and Human Development

6:30 - 8:30 SUNSET WELCOME RECEPTION

La Terraza Rooftop

Cocktails & Hors D'oeuvres with local artists



MONDAY, MAY 22

7:00 - 8:00 CONTINENTAL BREAKFAST

7:00 - 4:00 REGISTRATION

Lumpkins Mezzanine

8:00 - 9:00 PL2: CUTTING EDGE TECHNOLOGIES

Lumpkins Ballroom



Preventing Adverse Pregnancy Outcome Before Conception: The Soil is More Important than the Seed

Keynote Speaker: Errol Norwitz, MD, PhD Tufts University

9:00 - 9:30 **AJRI AWARD LECTURE**

Lumpkins Ballroom

Chair: Surendra Sharma

The Landscape of Macrophages in the Epididymis

Andreas Meinhardt, 2022 AJRI Award recipient

9:30 - 10:00 COFFEE BREAK

Lumpkins Mezzanine

10:00 - 12:00 S1: CHANGES IN ADAPTIVE AND INNATE IMMUNITY THROUGHOUT THE LIFESPAN OF WOMEN

Lumpkins North

Chairs: Marta Rodriguez-Garcia & Chuck Wira

- 10:00 Duygu Ucar, The Jackson Laboratory Sexual-Dimorphism in Human Immune System Aging and Vaccine Responses
- 10:30 Caroline Mitchell, Harvard University Cervicovaginal Microbiota Across the Lifespan
- 11:00 Chuck Wira, Geisel School of Medicine at Dartmouth Impact of Aging Beyond Menopause on Mucosal Immunity in the Human Female Reproductive Tract
- 11:30 Arnold Salazar, Baylor College of Medicine Metabolic and Cellular Mechanisms

 Driving Age-Dependent Inflammaging and Senescence in the Female Urinary Tract
- 11:45 Zheng Shen, Geisel School of Medicine at Dartmouth Impact of Aging on the Frequency, Phenotype, and Function of CD4+ T Cells in the Human Female Reproductive Tract

10:00 - 12:00 **S2: THE EFFECT OF MATERNAL IMMUNE ACTIVATION ON FETAL IMMUNE DEVELOPMENT**

Chairs: Jiahui Ding & Jun Lei

Lumpkins South

- 10:00 Anna Beaudin, University of Utah MIA Alters the Trajectory of Postnatal Immunity by Reprogramming Fetal Hematopoiesis
- 10:30 Leena Mithal, Northwestern University Impact of Sars-Cov-2 Infection in Pregnancy on Fetal Immune State
- 11:00 Jun Huh, Harvard University Maternal Microbiota Underlies Both Neurodevelopment and Immune-Primed Phenotypes in Offspring
- 11:30 Tao Zhang, Chinese University of Hong Kong Role of Macrophage on Oxidative Stress and Angiogenesis Toward the Early Growth and Development in Endometriosis

MONDAY, MAY 22

11:45 Enitome Bafor, National Cancer institute - A Mouse Model of Corpus Luteal Defect Mediated by Cd8+T Cells

12:00 - 1:30	LUNCH SESSION (included for attendees) La Terraza Rooftop	
	Understanding Indigenous approaches to sexual and reproductive CIHR Canadian Institutes of Health Research	
	health and improving health outcomes	
	Chairs: Charu Kauschic & Chuck Wira	
12:15	Randall Jackson, McMaster University - Inequitable Outcomes of Health in	
	Indigenous Communities	
12:40	Carrie Martin, Communities, Alliances and Networks - Indigenous-Led	
	Global Collaboration: Responses to SRHR	
1:05	Corrine Sanchez, Tewa Women United / University of New Mexico - Indigenous	
	Women's Reproductive Health and Wellness: A Perspective on the Birth Work	
	Community of Northern New Mexico	
1:30 - 3:30	S3: IMMUNOLOGY OF GYNECOLOGICAL CANCERS Lumpkins North	
	Chairs: Vijay Kumar & Atsushi Fukui	
1:30	Amir Jazaeri, University of Texas - Making Immunotherapy Work for Ovarian Cancer	
2:00	Animesh Barua, Rush University - Ovarian Autoimmunity and Endometriosis as	
	Risk Factors for Ovarian Malignancy	
2:30	Mickey Patel, Geisel School of Medicine at Dartmouth - Endometrial Tumors	
	Suppress CD8+T Cell Function	
3:00	Christina Farr, Case Western Reserve University - Investigating Mucosal Neutrophils	
	in HPV-Associated Cervical Neoplasia in African American Women	
3:15	Sarah Nelson, Southern Illinois University of Medicine - Identification of Systemic	
	inflammation and Immune Phenotypes in Endometrial Cancer	
1:30 - 3:30	S4: FETO-MATERNAL INTERFACE IMMUNOLOGY AND PATHOBIOLOGY Lumpkins South	
	Chairs: Ramkumar Menon & Joanne Kwak-Kim	
1:30	Veronica Zaga Clavellina, INPerIER - The Key Immunomodulatory Role of Decidual	
	Prolactin During Human Labor	
2:00	Akitoshi Nakashima, Toyama University - the Autophagy inhibitor, Bafilomycin A1,	
	Induces Preeclampsia-Like Phenotypes In Vitro	
2:30	Ryan C.V. Lintao, University of the Philippines Manila and UTMB - The "Great Wall" of Chorion	
	Trophoblasts: Exploring its Immunomodulatory Role at the Feto-Maternal Interface	
3:00	Xue Jiao, Center for Reproductive Medicine, Shandong University - Regional Immunological	
	Properties in Two Distinct Subsets of Ovarian Resident Macrophages	
3:15	Giuseppe Maiocco, Southern Illinois University of Medicine - Functional Conversion of Human	
	Peripheral Blood NK Cells to Decidua-Like NK Cells Requires Cooperative Effects of Hypoxia	
	and TGFβ	

3:30 - 3:45 COFFEE BREAK Lumpkins Mezzanine

MONDAY, MAY 22

5:30

S5: NOVEL MULTI-OMICS APPROACHES TO STUDY INFECTION AND REPRODUCTION 3:45 - 5:45 Chairs: Marta Rodriguez-Garcia & Biban Gill **Lumpkins North** Nadia Roan, UCSF - Multiomics Interrogation of Viral – T Cell Interactions In The Female 3:45 Reproductive Tract Matthew Pugh, University of Birmingham - The Immunopathology Of COVID-19 Placentitis: 4:15 A Multi-Omic Spatial Approach Liza Konnikova, Yale University - Multiomic Approaches in Studying the Maternal-Fetal 4:45 Interface 5:15 Olivia Palmer, Geisel School of Medicine at Dartmouth - 17beta-Estradiol Induces Temporal Transcriptomic Variation In M1 and M2 Macrophages 5:30 Vilde Kaldhusdal, Karolinska Institutet - Spatial Transcriptomics Reveals Distinct Molecular Signatures Across the Stratified Ectocervical Epithelium Associated with Use of Depot Medroxyprogesterone Acetate 3:45 - 5:45 **S6: IMMUNE MEMORY AND TOLERANCE IN PREGNANCY** Chairs: Sylvie Girard & Florian Hladik **Lumpkins South** Lucia Vojtech, University of Washington - The Role of Semen in Induction of 3:45 Paternal-Specific Tolerance During Pregnancy 4:15 Charles Graham, Queen's University - Innate Immune Memory and Maternal-Fetal Health **Outcomes** 4:45 Tamara Tilburgs, Cincinnati Children's Hospital - Mechanisms of Maternal-Fetal Tolerance and **Placental Immunity** 5:15 Ragav Siddharth, Tufts University - Untangling Dendritic Cell Heterogeneity in the Female Reproductive Tract and Their Role in HIV Pathogenesis

5:45- 6:45 **POSTER SESSION I** (odd #s) & Competition Final Judging

Treatment for Secondary Infertility

NM / Santa Fe Rooms

6:45 - 9:00 Student / Trainee Social: Santa Fe Scavenger Hunt

New Mexico Foyer

Join us after the poster session for this fun and interactive "Goose Chase" event! Choose a team, complete challenges around the historic area and get to know each other better. Gather at Cowgirls Saloon afterwards for casual dinner and drinks (on your own).

Umida Ganieva, Rosalind Franklin University - Regenerative Power of IL-22: A Potential



TUESDAY, MAY 23

7:00 - 8:00 CONTINENTAL BREAKFAST

7:00 - 4:00 REGISTRATION

8:00 - 9:00 PL3: PRESIDENT'S SESSION

Lumpkins Ballroom

Lumpkins Mezzanine



Leadership: Navigating the Journey

Presidential Speaker: **Amy Murtha, MD, PhD**Rutgers University

9:00 - 9:30 **HERR AWARD LECTURE**

Lumpkins Ballroom

Chair: TBD

Leveraging multi-omics to elucidate cervicovaginal microbiota-host interactions and women's health conditions

Melissa Herbst-Kralovetz, University of Arizona, 2022 Herr Award recipient

9:30 -10:00 COFFEE BREAK

Lumpkins Mezzanine

10:00 - 12:00 S7: IMMUNE MILIEU DURING DECIDUALIZATION AND EARLY PREGNANCY

Chairs: Kunle Odunsi & Charles Wira

Lumpkins North

- 10:00 Gabrielle Rizzuto, Memorial Sloan Kettering A New Mechanism of Fetomaternal Tolerance
- 10:30 Svetlana Dambaeva, Rosalind Franklin University Homeostasis, Inflammatory,

Immunoregulatory and Decidualization Factors Important in Evaluation of Endometrial Tissue

- 11:00 Joanne Kwak-Kim, Rosalind Franklin University Dysregulated T Cell Immunity in Women with Reproductive Failures
- 11:30 Iryna Sudoma, Clinic of Reproductive Medicine NADIYA, Kyiv, Ukraine Immune Endometrial Phenotypes in Assisted Reproduction Programs
- 11:45 José Martin Murrieta Coxca, University Hospital Jena Microglia Cells as Targets of Preeclampsia Extracellular Vesicles: An In Vitro Approach

10:00 - 12:00 S8: SEX HORMONES AND IMMUNITY - SIGNIFICANCE FOR POPULATIONS-AT-RISK

Chairs: Florian Hladik & Mimi Ghosh

Lumpkins South

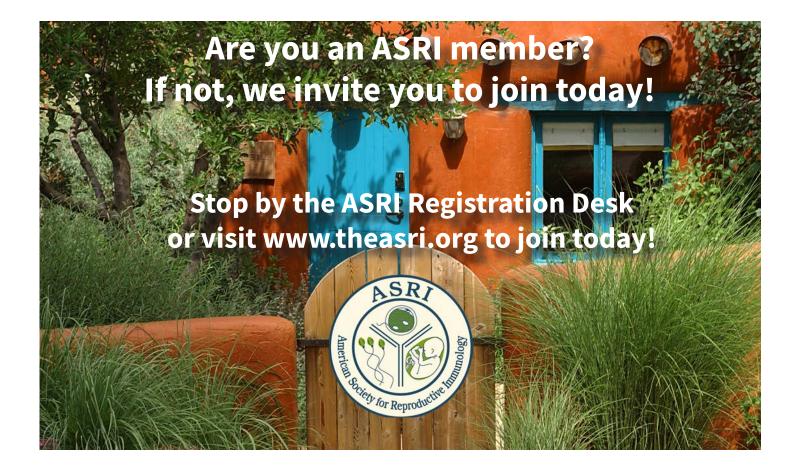
- 10:00 Florian Hladik, University of Washington Homeostatic Regulation of Vaginal Immunity by Sex Hormones and Across Life Events
- 10:30 Mimi Ghosh, George Washington University Systemic and Mucosal Immune Dysregulation in Transgender Individuals on Gender Affirming Hormone Therapy
- 11:00 Craig Hendrix, Johns Hopkins Exogenous Sex Hormone Modulation (or NOT) of HIV Pre-Exposure Prophylaxis
- 11:30 Alexandra Werner, Tufts University Innate Lymphoid Cells Reside in the Human Female Reproductive Tract and Display Antiviral Properties
- 11:45 Firoz Mian, McMaster University NET-EN, Unlike DMPA, Enhances Mucin and T Cell Functions in the Vaginal Tract, Improves Protection from HSV-2 in Mouse Models

TUESDAY, MAY 23

12:00 - 1:30	LUNCH SESSION (included for attendees) La Terraza Rooftop
	ASRI BUSINESS MEETING
	Chair: Irina Burd
1:30 - 3:30	S9: IMPACT OF EMERGING VIRAL INFECTIONS ON PREGNANCY AND THE NEONATE
	Chairs: Kristina Adams Waldorf & Indira Mysorekar Lumpkins North
1:30	David Schwartz, Perinatal Pathology Consulting - Update on Monkeypox in Pregnancy:
	Intrauterine Transmission, Maternal, Placental and Fetal Infection, and What We Can Learn
	From Smallpox
2:00	Amy Hartman, University of Pittsburgh - Rift Valley Fever: Impact on Pregnancy and
	Unanswered Questions
2:30	Rafael Tomoya Michita, Baylor College of Medicine - Tunneling Nanotubes: a New Route of
2.00	ZIKV Infection at the Maternal-Fetal Interface
3:00	Alison Eastman, Vanderbilt University - Infected Decidual Stromal Cells Prime Immune
2.15	Responses of Adjacent Uninfected Cell Layers of the Gestational Membranes
3:15	Kerrie Foyle, University of Adelaide - Uterine $\gamma\delta$ T Cells are a Major Element of the Female Immune Response to Seminal Fluid in Mice
	inimune response to Seminal Fluid in Mice
1:30 - 3:30	S10: EMPOWERING WOMEN LEADERS IN SCIENCE
	Chairs: Elizabeth Enninga & Ramkumar Menon Lumpkins South
1:30	Melissa Herbst-Kralovetz, University of Arizona - Finding Belonging in Science
1:50	Elizabeth Connick, University of Arizona - Surviving and Thriving in Academic Medicine
2:10	Sylvie Girard, Mayo Clinic - Developing Your Own Program
2:30	Kristen Porter, National Institutes of Health
3:00	Open panel discussion
3:30 - 3:45	COFFEE BREAK Lumpkins Mezzanine
3:45 - 5:45	S11: IMMUNE PRIVILEGE VS. IMMUNITY IN THE TESTES; MAINTAINING A BALANCE
	Chairs: Ken Beagley & Andreas Meinhardt Lumpkins North
3:45	Yong-Gang Duan, Hong Kong University - High-level Glucose Intake Exacerbated Murine
	Autoimmune Epididymal-Orchitis via Promoting Th17 Differentiation and ROS Production
4:15	Sudhandshu Bhushan, Justus-Liebig University - The Landscape of Macrophages in the Testes
4:45	Emily Bryan, Queensland University - Development of Mouse Models for Studying Sexually
	Transmitted Infections in Males
5:15	Yuekun Chen, Hyogo Medical University - Inhibitory Effects of a Spontaneously-Occurring
	Anti-Sperm Antibody on Reproductive Functions in Mice
5:30	Qunxiong Zeng, University of Hong Kong - Inflammatory Bowel Disease Induces Orchitis and
	Epididymitis In Mouse Model

TUESDAY, MAY 23

S12: SARS-CoV-2 AND PREGNANCY 3:45 - 5:45 Chairs: Nazeeh Hanna & Irina Burd **Lumpkins South** Rebecca Simmons, Univ. Pennsylvania - Sars-CoV2: Is the Placenta a Safe Place? 3:45 Irina Burd, Univ. Maryland - Modeling SARS-CoV2: Effects on Placenta and Offspring 4:15 Nazeeh Hanna, NYU Langone - Perinatal SARS-CoV-2 Infection and Vaccination: New Insights 4:45 5:15 Deepak Kumar, Baylor College of Medicine - SARS-CoV-2 Infection Disrupts Trophoblast Function and Placental Syncytial Barrier Integrity Via Its Accessory Protein, ORF3a 5:30 Landon vom Steeg, Dartmouth College - The Susceptibility of Endometrial CD4+ T Cells to Human Immunodeficiency Virus (HIV) Infection Increases with Age POSTER SESSION II (even #s) & Competition Final Judging 5:45-6:45 NM / Santa Fe Rooms All Poster Finalists should be present for final juding for the Poster competition 7:00 - 9:00 AJRI Editorial Board Meeting (by invitation only)



WEDNESDAY, MAY 24

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7:00 - 8:00 CONTINENTAL BREAKFAST Lumpkins Mezzanine 7:00 - 4:00 REGISTRATION **PL4: GUSDON AWARD SESSION** 8:00 - 9:30 Lumpkins Ballroom Chairs: Surendra Sharma & Gil Mor G1 Elsa Bernier, University of Montreal - Pandemic stress induces systemic immune changes and placental inflammation independently of SARS-CoV-2 infection in pregnancies G2 Steffany Conyers, Harvard University - Transplacental Transfer of SARS-CoV-2 Variant Antibodies Following COVID-19 Vaccination During Pregnancy G3 Belen Gimeno Molin, Imperial College London - The complement system in cervical shortening and spontaneous preterm birth G4 Jun Lei, University of Maryland - IL-1 Receptor as a Therapeutic Target Alleviates Placental Dysfunction & Perinatal Injury in a Mouse Model of Congenital Cytomegalovirus Infection Laura Moreno de Lara, Tufts University - Aging Impairs HIV Responses in Neutrophils from G5 Blood and the Female Genital Tract G6 Mickey Patel, Geisel School of Medicine at Dartmouth - Aging alters the innate immune responses of endometrial fibroblasts from the human female reproductive tract 9:30 - 10:00 COFFEE BREAK Lumpkins Mezzanine 10:00 - 12:00 **S13: MICROBIOMES OF PREGNANCY** Chairs: Anna Powell & Melissa Herbst-Kralovetz **Lumpkins North** 10:00 David MacIntyre, Imperial College London - Spatial characterization of reproductive tract microbiota-host responses in pregnancy and preterm birth 10:30 Melody Zeng, Cornell University - Gut microbiome-mediated immune regulation at the maternal-fetal interface 11:00 Elizabeth Corwin, Columbia University - The Social and Biological Determinants of the Vaginal Microbiome and the Risk of Preterm Birth 11:30 Sona Jasani, Yale School of Medicine - Using cross-species transcriptomics to uncover molecular pathways associated with retained placenta 11:45 Russell Urie, University of Michigan - Subcutaneous scaffold implants recapitulate the placental microenvironment for prenatal immunosurveillance 10:00 - 12:00 S14: VACCINATION DURING PREGNANCY Chairs: Deborah Anderson & Judy Zhang **Lumpkins South** 10:00 Maged Constantine, Ohio State - Maternal and neonatal outcomes of Covid infections 10:30 Michael Citron, Merck - Modeling vaccination during pregnancy using non-human primates 11:00 Kang Chen, Wayne State University - Transplacental immunoglobulin D protects infants from food allergy 11:30 George Ndukwe, ARGC, London - The use of immunomodulation therapy in women with recurrent implantation failure undergoing assisted conception: a multicentre cohort study

11:45 Zheping Huang, Women & Infants Hospital - Exploiting sweet relief for preeclampsia by

WEDNESDAY, MAY 24

targeting autophagy-lysosomal machinery and proteinopathy Increased levels of plasma $\mathsf{TNF}\alpha$ in transgender women on long-term gender-affirming hormone therapy

12:00 - 1:30 **LUNCH SESSION** (included for attendees)

La Terraza Rooftop

REPRODUCTIVE RIGHTS

Chairs: Indira Mysorekar & Irina Burd

Marianna Alperin, UCSD - Pelvic Floor Muscle Regeneration Following Simulated Birth Injury in a Validated Preclinical Model Followed by Open Discussion (Town Hall forum)

1:30 - 3:30 S15: REPRODUCTIVE IMMUNE-ENDOCRINE CROSS-TALK: IMPLICATIONS FOR WOMEN'S HEALTH Lumpkins North

Special Anniversary session of the Indian Society for Reproductive Immunology

Chairs: Taruna Madan & Surendra Sharma

Taruna Madan, ICMR-NIRRCH - Synergistic Prediction of Early Onset Preeclampsia by Immune and Endocrine Biomarkers: A Window of Opportunity to Prevent Feto-Maternal Mortality and Morbidity

Shailaja Sopory, Translational Health Science & Technology Institute - Longitudinal Expression of Serum Immune Markers Across Pregnancy and Fetal Growth Restriction in a North Indian Pregnancy Cohort

Malini Laloraya, Rajiv Gandhi Center for Biotechnology - PCOS: Where Endocrinology Meets Immunology

Mohan Raut, Dr. Raut's Centre for Reproductive Immunology - Immunomodulation: Missing link in Recurrent Implantation Failures

Rupesh Srivastava, All India Institute of Medical Sciences New Delhi - Exploiting the Immunoporotic Potential of "Bregs" Under Inflammatory Bone Loss in Post-Menopausal Osteoporosis: Bench to Bedside

1:30 - 3:30 **S16: INFLAMMATION AND METABOLIC PROCESS IN THE UROGENITAL**

TRACT AND THEIR ROLE IN STIS

Lumpkins South

- Chairs: Amy Gillgrass & Indira Mysorekar
- 1:30 Keith Fowke, University of Manitoba Reducing Inflammation in the Female Genital Tract as a Novel HIV Prevention Approach
- 2:00 Charu Kaushic, McMaster University Host-Microbiome Interactions, Inflammation and their Effect on HIV Susceptibility in Female Genital Tract
- 2:30 Marta Rodriguez-Garcia, Tufts University The Role of Neutrophils in Protection Against HIV Infection in the Female Reproductive Tract
- 3:00 Janja Kovacic, George Washington University Increased Levels of Plasma TNFα in Transgender Women on Long-Term Gender-Affirming Hormone Therapy
- 3:15 Madeleine Lepard, McMaster University A Next Generation Humanized Mouse Model of HIV, TB and HIV/TB Co-Infection

WEDNESDAY, MAY 24

COFFEE BREAK 3:30 - 3:45 Lumpkins Mezzanine **S17: ENVIRONMENTAL STRESSORS AND IMPACT ON PREGNANCY** 3:45 - 5:45 Chairs: Sylvie Girard & David Olson **Lumpkins North** Gerlinda Metz, University of Leth - Psychosocial Stress as a Risk Factor in Pregnancy 3:45 4:15 Michal Elovitz, Icahn School of Medicine at Mount Sinai - Biology Does Not Occur in a Vacuum: Considerations for the Microbiota and Pregnancy Health 4:45 Felipe Vadillo-Ortega, University of Michigan - Inflammation, Nutrition and City Environment: Mexico City Perinatal Cohort Tiffany Habelrih, University of Montreal - Efficacy of Rytvela, an Allosteric Anti-IL-1R Modulator, 5:15 to Prevent Preterm Birth and Neonatal Tissue Injury After Onset of Preterm Labor 5:30 Anthony Maxwell, Wayne State University - Impact of Benzene Exposure on Interferon Stimulated Genes Expression and Function 3:45 - 5:45 **S18: ANIMAL MODELS OF REPRODUCTIVE HEALTH AND DISEASE** Chairs: Surendra Sharma & Kristina Adams Waldorf **Lumpkins South** 3:45 Jennifer Tisoncik-Go, University of Washington - Zika Virus Exposure in Utero is Associated with Altered Myelination During Fetal Brain Development in a Pigtail Macague Pregnancy 4:15 Orlando Cervantes, University of Washington - Modeling Enhanced Lung Disease in Pregnancy from Influenza A Virus Infection in an NHP Model 4:45 S. Ananth Karumanchi, Cedars Sinai Medical Center - Baboon Model of siRNA Treatment of Preeclampsia 5:15 Sudeshna Tripathy, Oregon National Primate Research Center - Choriodecidual Ureaplasma Infection Results in Fetal Membrane Inflammatory Responses In Vivo in a Non-Human Primate

Model
5:30 Meredith Kelleher, Oregon National Primate Research Center- Fetal Brain Inflammation
Induced by Choriodecidual Ureaplasma parvum Infection without Preterm Labor in a Rhesus
Macaque Model



"A Night of Enchantment" at the New Mexico History Museum

Meet in the La Fonda lobby at 6:30 pm for a special surprise before walking to the museum

6:45 Cocktails / Exhibits open

7:15 Buffet Dinner & Entertainment followed by Award Presentations

8:15 Closing Remarks / Museum Exhibits / DJ & Dancing

2023 ASRI AWARDS

The following ASRI Awards will be presented at the Gala Dinner & Awards Celebration:

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

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 advocate of student participation in ASRI meetings.

The **J. Christian Herr Award** is given annually to a member of ASRI, International Society for Immunology of Reproduction, or European Society for Reproductive Immunology, who has made outstanding achievements in basic or applied research in reproductive immunology, particularly for investigators involved in technology transfer.

The **Carolyn B. Coulam Memorial Award** is given annually to an outstanding female physician-scientist in the field of reproductive immunology who has demonstrated commitments, by publication and/or practice, to scholarly advances in the field of reproductive immunology.

The **ASRI 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.

The **Poster Competition Awards** will be presented to the top posters based on the final scores received during the poster judging session on Monday.



ASRI 2023 SPEAKERS & CHAIRS

FACULTY SPEAKERS & CHAIRS

Rafat Abbasi - Columbia Fertility Vikki Abrahams - Yale University Kristina Adams-Waldorf - University of Washington Marianna Alperin — University of California, San Diego Anderson, Deborah - Boston Medical Center Ricardo Barini - UNICAMP Animesh Barua - Rush University Ken Beagley - Queensland University of Technology Ken Beaman - Rosalind Franklin University Anna Beaudin - University of Utah Sudhanshu Bhushan - Justus-Liebig University Diana Bianchi - NICHD/NIH Emily Bryan - Queensland University of Technology Irina Burd - University of Maryland Marcelo Cavalcante - Universidade de Fortaleza, Brasil Orlando Cervantes - University of Washington Kang Chen - Wayne State University Michael Citron - Merck Elizabeth Connick - University of Arizona Elizabeth Corwin - Columbia University Maged Costantine - The Ohio State University Svetlana Dambaeva - Rosalind Franklin University Kristen Demoruelle - Colorado University Anschutz Jiahui Ding - Wayne State University Yong-Gang Duan - University of Hong Kong Michal Elovitz – MSSM/University of Pennsylvania Elizabeth Enninga - Mayo Clinic Emilio Fernandez - Clinica las Condes Santiago, Chile Keith Fowke - University of Manitoba Atsushi Fukui - Hyogo Medical University Mimi Ghosh - George Washington University Bibanjeet Gill - McMaster University Amy Gillgrass - McMaster University Sylvie Girard - Mayo Clinic Jennifer Go - University of Washington Charles Graham - Queen's University Nazeeh Hanna - NYU Langone Amy Lynn Hartman - University of Pittsburgh Craig Hendrix - Johns Hopkins Melissa Herbst-Kralovetz - University of Arizona Florian Hladik - University of Washington Jun Huh - Harvard University Randall Jackson - McMaster University Amir Jazaeri - University of Texas Giovanni Jubiz - Center for Reproductive Immunology and Infertility S. Ananth Karumanchi - Cedars-Sinai Medical Center Charu Kaushic - McMaster University

David MacIntyre - Imperial College London Taruna Madan - ICMR-National Institute for Research in Reproductive and Child Health Carrie Martin - Communities, Alliances and Networks Andreas Meinhardt - University of Geissen, Germany Ramkumar Menon – University of Texas Medical Branch Gerlinde Metz - University of Leth Rafael Tomoya Michita - Baylor College of Medicine Caroline Mitchell - Harvard University Leena Mithal - Northwestern University Gil Mor - Wayne State University Amy Murtha - Rutgers University Indira Mysorekar - Baylor College of Medicine Koji Nakagawa - Sugiyama Clinic Shinjuku Akitoshi Nakashima - Toyama University Yasuyuki Negishi - Nippon Medical School **Errol Norwitz - Tufts University** Evan Ntrivalas Memorial Sloan Kettering David Olson - University of Alberta Mickey Patel - Dartmouth College Richard Pilsner - Wayne State University Kristen Porter, National Institutes of Health Anna Powell - Johns Hopkins University Matthew Pugh - University of Birmingham, UK Mohan Raut - Dr. Raut's Ctr. for Repro. Immunology Gabrielle Rizzuto - Memorial Sloan Kettering Nadia Roan - University of California, San Francisco Marta Rodriguez-Garcia - Tufts University Luna Samanta - Ravenshaw University Corrine Sanchez - Tewa Women United / Univ. of NM David Schwartz - Perinatal Pathology Consulting Surendra Sharma - Women & Infants Hospital RI Rebecca Simmons - University of Pennsylvania Shailaja Sopory - Translational Health Science and **Technology Institute** Rupesh Srivastava - All India Institute of Med. Sciences Raphael Stricker - Alan E. Beer Medical Center Amy Thees - Rosalind Franklin University Tamara Tilburgs - Cincinnati Children's Hospital Duygu Ucar - The Jackson Laboratory Felipe Vadillo-Ortega - UNAM, Mexico Lucia Vojtech - University of Washington Charles Wira - Dartmouth College Andrew Wong — University of California, Los Angeles

GUSDON FINALISTS

Veronica Zaga Clavellina - INPerIER

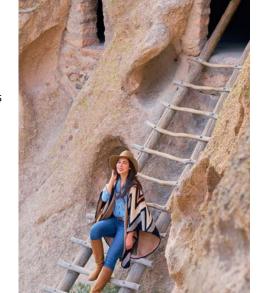
Judy Zhang - Chinese University of Hong Kong

Melody Zeng - Cornell University

Elsa Bernier - University of Montreal (TG)
Steffany Conyers - Harvard University (TG)
Belen Gimeno Molin - Imperial College, London (TG)
Jun Lei - University of Maryland (TG)
Laura Moreno de Lara - Tufts University (TG)
Mickey Patel - Dartmouth College (TG)

ORAL PRESENTERS

Enitome Bafor - National Cancer Institute (TG) Yuekun Chen - Hyogo Medical University Japan (TG) Alison Eastman - Vanderbilt University Christina Farr - Case Western Reserve University Kerrie Foyle - University of Adelaide Umida Ganieva - Rosalind Franklin University Tiffany Habelrih - University of Montreal Zheping Huang - Women & Infants Hospital RI Sona Jasani - Yale School of Medicine Xue Jiao - Shandong University China Vilde Kaldhusdal - Karolinska Institute (TG) Meredith Kelleher - Oregon National Primate Center Janja Kovacic - George Washington University Deepak Kumar - Baylor College of Medicine Madeleine Lepard - McMaster University (TG) Giuseppe Maiocco - Southern Illinois University Anthony Maxwell - Wayne State University Firoz Mian - McMaster University José Martin Murrieta Coxca - University Hospital Jena George Ndukwe - ARGC, London Sarah Nelson - Southern Illinois University Olivia Palmer - Dartmouth College (TG) Arnold Salazar - Baylor College of Medicine (TG) Zheng Shen - Dartmouth College Ragav Siddharth Parthasarathy - Tufts University Iryna Sudoma - Clinic of Reproductive Med., Ukraine Sudeshna Tripathy - Oregon National Primate Ctr (TG) Russell Urie - University of Michigan (TG) Landon vom Steeg - Dartmouth College Alexandra Werner - Tufts University Qun-Xiong Zeng - University of Hong Kong Tao Zhang - Chinese University of Hong Kong (TG)



Liza Konnikova - Yale University

Jun Lei - University of Maryland

Vijay Kumar - Louisiana State University HSC

Joanne Kwak-Kim - Rosalind Franklin University

Malini Laloraya - Rajiv Gandhi Centre for Biotechnology

Babbette LaMarca — University of Mississippi Med. Ctr.

Ryan C.V. Lintao - University of Philippines & UTMB

INVITATION TO ATTEND ASRI 2024



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ABSTRACT DEADLINE: FEB 15, 2024



MEETING CHAIRS

Indira Mysorekar, PhD Ramkumar Menon, PhD

ASRI PRESIDENT
David Aronoff, MD, PhD

