

# XI ICRI 2010, 15-19 August 2010

## SCIENTIFIC PROGRAM

### Sunday 15<sup>th</sup> August

- 1430 h **ISIR Council meeting** (Terrace)
- 1600 h **Session 1** (Outer Reef Room)  
**Opening ceremony**  
Welcome: Sarah Robertson (University of Adelaide, Adelaide, AUSTRALIA)  
**Presidential Address**  
Koji Koyama (Hyogo University, Nishinomiya, JAPAN)  
*Gamete immunology: achievements and perspectives (abstract PA1)*
- 1700 h **Session 2** (Outer Reef Room)  
**Symposium I: The immune response and fetal programming**  
Chairpersons: Gerard Chaouat (FRANCE) and Rayna Georgieva (BULGARIA)
- 1700 h Petra Arck (Charité University, Berlin, GERMANY)  
*Stress during pregnancy: maternal endocrine-immune imbalances and fetal health (abstract S1)*
- 1730 h Betty Diamond (The Feinstein Institute for Medical Research, New York, USA)  
*Maternal antibodies and fetal brain function (abstract S2)*
- 1800 h Gus Dekker (University of Adelaide, Adelaide, AUSTRALIA)  
*Preeclampsia and intrauterine growth restriction – the role of the father (abstract S3)*
- 1830 h Vicki Clifton (University of Adelaide, Adelaide, AUSTRALIA)  
*The influence of fetal sex on the fetal-placental adaptation to stressors (abstract S4)*
- 1900 h *Welcome Event* (lawn area)

### Monday 16<sup>th</sup> August

- 0830 h **Session 3** (Outer Reef Room)  
**Symposium II: Immune regulation of endometrial receptivity and embryo implantation**  
Chairpersons: Carolyn Coulam (USA) and Kaori Koga (JAPAN)
- 0830 h Lois Salamonsen  
(Prince Henry's Institute of Medical Research, Melbourne, AUSTRALIA)  
*Uterine microenvironment in fertility and infertility (abstract S5)*
- 0900 h Sandra Blois (Charité University, Berlin, GERMANY)  
*Embryo implantation: unravelling the functions of dendritic cells and natural killer cells (abstract S6)*
- 0930 h Gil Mor (Yale University, New Haven, USA)  
*Trophoblast cells as immune modulators in pregnancy (abstract S7)*
- 1000h Jane Girling (Monash Institute for Medical Research, Melbourne, AUSTRALIA)  
*Lymphatics in the human placental bed in endometrial decidualisation (abstract O1)*

- 1015 h *Morning tea* (Terrace)
- 1045 h **Session 4** (Outer Reef Room)  
**Symposium III: Immune regulation of the maternal-placental interaction**  
 Chairpersons: Sicco Scherjon (THE NETHERLANDS) & Margoula Varla-Leftherioti (GREECE)
- 1045 h Gendie Lash (University of Newcastle, Newcastle, UK)  
*Functional role of uterine natural killer cells in early human pregnancy (abstract S8)*
- 1115 h Philippe Le Bouteiller (Centre de Physiopathologie de Toulouse, Toulouse, FRANCE)  
*The human decidual NK cell response to pathogens (abstract S9)*
- 1145 h Frans Claas (University of Leiden, Leiden, THE NETHERLANDS)  
*HLA-C mediated immune regulation at the maternal fetal interface (abstract S10)*
- 1215 h Jelmer Prins (University Medical Centre Groningen, Groningen, THE NETHERLANDS)  
*Smoking influences local and systemic immune responses differently during pregnancy in mice (abstract O2)*
- 1230 h *Lunch* (Terrace)
- 1230 h **Session 5** (Inner Reef Room)  
**Attended Poster session 1 (abstracts P1-P84, odd numbers)**  
 Moderators: Peggy Petroff (USA) and Sharon McCracken (AUSTRALIA)
- 1330 h **Session 6** (Outer Reef Room)  
**Symposium IV: Inflammation and innate immunity in reproductive events**  
 Chairpersons: David Olson (CANADA) and Murray Mitchell (AUSTRALIA)
- 1330 h Vikki Abrahams (Yale University, New Haven, USA)  
*Cytoplasmic pattern recognition receptors in placental infection (abstract S11)*
- 1400 h Jeff Keelan (University of Western Australia, Perth, AUSTRALIA)  
*Pharmacological inhibition of inflammatory pathways for prevention of preterm birth (abstract S12)*
- 1430 h Mark Hedger (Monash Institute of Medical Research, Melbourne, AUSTRALIA)  
*Toll-like receptors and inflammatory signalling in spermatogenesis and testicular immune regulation (abstract S13)*
- 1500 h Rebecca Robker (University of Adelaide, Adelaide, AUSTRALIA)  
*Inflammatory pathways linking obesity and ovarian dysfunction (abstract S14)*
- 1530 h *Afternoon tea* (Terrace)
- 1600 h **Session 7** (Outer Reef Room)  
**Symposium V: T regulatory cells, Th17 cells and phenotype switching in reproduction**  
 Chairpersons: Marie-Pierre Piccinni (ITALY) and Joy Pate (USA)
- 1600 h Chen Dong (The University of Texas MD Anderson Cancer Center, Houston, USA)  
*Regulatory T cells and Th17 cells in immunity - function and plasticity (abstract S15)*
- 1630 h Alexander Betz (Cambridge University, Cambridge, UK)  
*Regulatory T cells in pregnancy (abstract S16)*
- 1700 h Shigeru Saito (University of Toyama, Toyama, JAPAN)  
*The role of regulatory NK cells and regulatory T cells in the maintenance of pregnancy (abstract S17)*

- 1730 h Leonardo Fainboim (University of Buenos Aires, Buenos Aires, ARGENTINA)  
*Defects in IL-2-STAT5 signalling and reduced TGF $\beta$  and IL-2 cytokines account for regulatory T cell deficiency in women with recurrent spontaneous abortions (abstract S18)*
- 1800 h Ralph Nanan (The University of Sydney, Kingswood, AUSTRALIA)  
*Mismatch between decidual DC-Sign+ dendritic cells and Foxp3+ T regulatory cells in preeclampsia (abstract O3)*
- 1815 h *Happy Hour and Poster Viewing* (Terrace and Inner Reef Room)

## Tuesday 17<sup>th</sup> August

- 0800 h **Session 8** (Outer Reef Room)  
**Symposium VI: Cytokines and signalling in reproductive tissues**  
Chairpersons: Da-Jin Li (CHINA) and Claire Roberts (Australia)
- 0800 h Udo Markert (Friedrich Schiller University, Jena, GERMANY)  
*JAK/STAT signalling in placental trophoblast differentiation (abstract S19)*
- 0830 h Paul Hertzog (Monash Institute for Medical Research, Melbourne, AUSTRALIA)  
*Interferon epsilon and the innate immune response of the reproductive tract (abstract S20)*
- 0900 h Christine Watson (Cambridge University, Cambridge, UK)  
*Cytokine regulation of mammary gland development (abstract S21)*
- 0930 h Wendy Ingman (University of Adelaide, Adelaide, AUSTRALIA)  
*Novel roles for macrophages in epithelial cell turnover in the cycling adult mammary gland (abstract O4)*
- 0945 h *Morning tea* (Terrace)
- 1015 h **Session 9** (Outer Reef Room)  
**Symposium VII: Immune regulation of infertility and endometriosis**  
Chairpersons: Khaleque Khan (JAPAN) and Jane Girling (AUSTRALIA)
- 1015 h Julia Szekeres-Bartho (University of Pecs, Pecs, HUNGARY)  
*Progesterone and immune-endocrine cross-talk in fertility and infertility (abstract S25)*
- 1045 h Nathalie Lédée (University of Paris–Sud, Paris, FRANCE)  
*Peri-conceptual cytokine environment and consequences for human pregnancy (abstract S26)*
- 1115 h Ian Fraser (University of Sydney, Sydney, AUSTRALIA)  
*Treg cells and other leukocytes in the pathogenesis of endometriosis (abstract S27)*
- 1145 h Louise Hull (University of Adelaide, Adelaide, AUSTRALIA)  
*Macrophages, TGF $\beta$  superfamily cytokines, microRNAs and endometriosis (abstract S28)*
- 1215 h Khaleque Khan (Nagasaki University, Nagasaki, JAPAN)  
*Cross-talk between inflammation and stress reaction in Toll-like receptor 4-mediated growth of endometriosis (abstract O5)*
- 1230 h *Lunch* (Terrace)
- 1230 h **Session 10** (Inner Reef Room)  
**Attended Poster session (abstracts P1-P84, even numbers)**  
Moderators: Wendy Ingman (AUSTRALIA) and Zdenka Ulcova-Gallova (CZECH REPUBLIC)

- 1330 h **Session 9** (Outer Reef Room)  
**Symposium VII: Self or not self? Autoimmunity and microchimerism in reproduction**  
 Chairpersons: Elizabeth Bonney (USA) and D. Ware Branch (USA)
- 1330 h Larry Chamley (University of Auckland, Auckland, NEW ZEALAND)  
*Trophoblast deportation – just placental debris or fetal-maternal antigen sharing? (abstract S22)*
- 1400 h Jeff Mold (University of California, San Francisco, USA)  
*How the immune system ‘grows up’: evidence supporting the existence of a layered immune system (abstract S23)*
- 1430 h Mickie Cheng (University of California, San Francisco, USA)  
*Translating AIRE-dependent tolerance to autoimmune ovarian disease (abstract S24)*
- 1500 h Peggy Petroff (University of Kansas Medical Center, Kansas City, USA)  
*A role for autoimmune regulator (AIRE) in female fertility (abstract O6)*
- 1515 h Wendy Winnall (Monash Institute for Medical Research, Melbourne, AUSTRALIA)  
*Rat testicular macrophages constitutively produce interleukin-10 and have an alternatively activated response to inflammatory stimulation in vitro (abstract O7)*
- 1530 h *Afternoon tea* (Terrace)
- 1600 h **Session 12** (Outer Reef Room)  
**FREE COMMUNICATIONS: NEW INVESTIGATOR AWARD**  
 Chairpersons: Sarah Robertson (AUSTRALIA) and Petra Arck (GERMANY)
- 1600 h Elise Pelzer (Queensland University of Technology, Brisbane, AUSTRALIA)  
*Microbial colonisation of follicular fluid: alterations in cytokine expression and adverse assisted reproductive technology outcomes (abstract O8)*
- 1615 h Tomoko Shima (University of Toyama, Toyama, JAPAN)  
*Paternal antigen specific regulatory T cells proliferate in the draining lymph nodes before implantation and in the uterus after implantation (abstract O9)*
- 1630 h Lachlan Moldenhauer (University of Adelaide, Adelaide, AUSTRALIA)  
*GM-CSF regulates uterine macrophage and dendritic cell maturation and antigen presentation (abstract O10)*
- 1645 h Tamara Tilburgs (Harvard University, Cambridge, USA)  
*Isolation and molecular studies of human HLA-G+ extravillous trophoblasts (abstract O11)*
- 1700 h Diana Morales (Friedrich Schiller University, Jena, GERMANY)  
*MicroRNA profiles in response to LIF in trophoblastic cells (abstract O12)*
- 1715 h Yin Zhao (University of Tokyo, Hongo Bunkyo, JAPAN)  
*Cyclic mechanical stretch augments neutrophil chemotactic chemokine and MMP production in cultured human uterine myometrial and decidual cells (abstract O13)*
- 1730 h Ingrid Cardenas (Yale University, New Haven, USA)  
*Viral infection sensitizes pregnancy to LPS leading to preterm labor (abstract O14)*
- 1745 h Ellen Menkhorst (Prince Henry’s Institute of Medical Research, Melbourne, AUSTRALIA)  
*A vaginally applied, non-hormonal contraceptive: the contraceptive efficacy and impact on bone turnover of PEGLA, a long-acting LIF antagonist (abstract O15)*
- 1900 h *Conference Gala Dinner* (Sebel Reef House, Palm Cove)

## Wednesday 18<sup>th</sup> August

- 0830 h **Session 13** (Outer Reef Room)  
**Symposium IX: Miscarriage and preeclampsia – old problems, new therapies?**  
Chairpersons: Silvia Daher (BRAZIL) and Ole Christiansen (DENMARK)
- 0830 h Ian Sargent (Oxford University, Oxford, UK)  
*Placental microvesicles and exosomes and systemic inflammation in preeclampsia (abstract S29)*
- 0900 h Guillermina Girardi (Cornell University, New York, USA)  
*Role of tissue factor in pregnancy complications (abstract S30)*
- 0930 h Joanne Kwak-Kim (Rosalind Franklin University, Chicago, USA)  
*New perspectives in evaluation and treatment of recurrent pregnancy loss and multiple implantation failure (abstract S31)*
- 1000 h Surendra Sharma (Brown University, Providence, USA)  
*Mouse model for preeclampsia - role of IL-10 (abstract S32)*
- 1030 h Gabriela Gutierrez (Halitus Medical Institute, Buenos Aires, ARGENTINA)  
*Characterization of natural killer cells in implantation failure: effect of low-molecular weight heparin (abstract O16)*
- 1045 h *Morning tea* (Terrace)
- 1115 h **Session 14** (Outer Reef Room)  
**Symposium X: Reproductive tract infection and sexually transmitted diseases**  
Chairpersons: Lakshmi Krishnan (Canada) and Geoff Shellam (AUSTRALIA)
- 1115 h Chuck Wira (Dartmouth University, Lebanon, USA)  
*Innate immune protection in the human female reproductive tract against HIV and other sexually transmitted diseases (abstract S33)*
- 1145 h Ali Ashkar (McMaster University, Hamilton, Canada)  
*Regulation of T cell responses against HSV (abstract S34)*
- 1215 h Andreas Meinhardt (University of Giessen, Giessen, GERMANY)  
*Uropathogenic Escherichia coli (UPEC) and the inflammatory response of the testes (abstract S35)*
- 1245 h *Lunch* (Terrace)
- 1300 h **ISIR Assembly** (Outer Reef Room)
- 1345 h **Session 16** (Outer Reef Room)  
**Symposium XI: Preventing reproductive tract infection – the promise of vaccines**  
Chairpersons: Raina Fichorova (USA) and John Hayball (Australia)
- 1345 h Deborah Anderson (Boston University Medical Centre, Boston, USA)  
*Cell-associated HIV transmission: mechanisms and prevention (abstract S36)*

1415 h J Victor Garcia-Matinez (The University of Texas Southwestern Medical Center, USA)  
*Immunological reconstitution of the female reproductive tract of humanised mice*  
(abstract S37)

1445 h Charu Kaushic (McMaster University, Hamilton, CANADA)  
*Prevention of sexually transmitted viral infections: time for gender-specific vaccine strategies?* (abstract S38)

1515 h Ken Beagley (Queensland University of Technology, Brisbane, AUSTRALIA)  
*Chlamydial vaccines: What do we need, what can we deliver?* (abstract S39)

1545 h *Afternoon tea*

1615 h **Session 17** (Outer Reef Room)  
**Symposium XII: The challenge of contraception and population control**  
Chairpersons: Janine Duckworth (New Zealand) and Maciej Kurpisz (Poland)

1615 h John Aitken (University of Newcastle, Newcastle, AUSTRALIA)  
*Managing human population growth – utility of microbicides and spermicides*  
(abstract S40)

1645 h Akiko Hasegawa (Hyogo College of Medicine, Nishinomiya, JAPAN)  
*CD52 as a target for autoimmune antibodies to gametes* (abstract S41)

1715 h Eva Dimitriadis (Prince Henry's Institute of Medical Research, Melbourne, AUSTRALIA)  
*Targeting endometrial IL-11 and LIF – new generation contraceptives* (abstract S42)

1745 h Satish Gupta (National Institute of Immunology, New Delhi, INDIA)  
*Contraceptive vaccines for human and animal utility* (abstract S43)

1815 h **Closing ceremony and awards** (Outer Reef Room)

1830 h *Happy Hour* (Terrace)

## Thursday 19<sup>th</sup> August

0900 - 1730 h *Day trip to Great Barrier Reef* (meet at hotel main entrance)