IFPA Program Schedule and Speakers

Tuesday September 13th

IFPA Executive Committee 8:30 a.m. - 12.30 p.m.
Executive Committee Lunch 12:30 – 1:30 p.m.

Opening Address: Oregon Convention Center 2:00 – 2:30 p.m.
Leslie Myatt, Ph.D.
Nick Illsley, Ph.D.

Keynote speakers: 2:30 - 4.00 p.m.
Moderator: Kent Thornburg, Ph.D.

KEY.O1 Jonathan R. Lindner, M.D., Oregon Health & Science University, Portland OR, USA
“Advanced Ultrasound Imaging: Insights from Perfusion and Molecular Imaging”

KEY.02 Joe Gray, PhD., Oregon Health and Science University, Portland OR, USA
“Exploring the architectures of life at multiple scales”

Refreshments 4:00 – 4:30 p.m.

National Institutes of Health Lecturer 4:30 – 5:30 p.m.
Moderators: Stacy Zamudio, Ph.D., Martin Knoefler, Ph.D.

NIH Francesco DeMayo, Ph.D., National Institute of Environmental Health Science, USA
“Investigating the molecular mechanisms regulated by progesterone governing the ability of the uterus to support pregnancy”.

Opening Reception: Doubletree Hotel 6:30 – 8:30 p.m.
Presentation of New Investigator Loke Awards, NIH Awards, Elsevier Awards
Graham Burton, Ph.D.
Joan Anuels
Leslie Myatt, Ph.D.

Wednesday September 14th

Awards Committee 7:30 – 8:30 a.m.

New Investigator/*Junior Faculty Session 1 8:30 –
10:00 a.m.
Moderators: Alicia Jawerbaum, Ph.D., Charles Graham, Ph.D.

NI1.01 E. Magda Price, B.S., University of British Columbia, Canada
“Transcriptomic profiling of sncRNA in placenta by RNAseq”.

Hanna Huebner, B.S., Friedrich-Alexander University Erlangen-Nuremberg, Germany
“Impaired gene-expression and epigenetic regulation of Retinoic Acid Receptor Responder 1 in preeclampsia and choriocarcinoma”.

Mihaela Pavlicev, Ph.D., Cincinnati Children’s Hospital Medical Center, Cincinnati OH, USA
“Utero-placental cell interactions revealed by single cell transcriptomics”.

Frances Wong, B.Sc. University of Toronto, Canada
“Dynamically Regulated Trophoblast Subpopulations Isolated from Early Human Placentas”.

K. Bryce Wolfe, B.S., University of Wisconsin – Madison WI, USA
“First trimester infection with Listeria monocytogenes is characterized by decidual and placental inflammation in pregnant cynomolgus macaques”.

Geetu Tuteja, Ph.D., Iowa State University, Ames IA, USA
“Integrating multi-dimensional genomics data to build regulatory maps of placental Development”.

Refreshments 10:00 – 10:30 a.m.

Symposium 1 10:30 a.m. - 12:30 p.m.
Bioinformatics/systems biology applied to the placenta
Moderators: Yoel Sadovsky, M.D., Padma Murthi, Ph.D.

Nathan Price, Ph.D., Institute of Systems Biology, Seattle WA, USA
“Genome scale analysis of mRNA and miRNA regulation in preterm birth”.

Thomas Metz, Ph.D., Pacific Northwest National Laboratories, Richland WA, USA

Andrew Adey, Ph.D., Oregon Health & Science University, Portland OR, USA
“Chromatin remodeling during formation of the syncytiotrophoblast”

Lunchtime session 12:30 – 1:30 p.m.

David Weinberg, Ph.D., Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda MD, USA
“The Human Placenta Project: Current Progress and Future Directions”

Gabor Than Award Presentation and Lecture 1:30 – 2:30 p.m.
Moderators: Thomas Jansson, M.D., Ph.D., Claire Roberts, Ph.D.

Sascha Drewlo, Ph.D., Wayne State University, Detroit MI, USA
“Quo Vadis, trophoblast? Exploring the new ways of an old cell lineage”

Poster Session 1 2:30 – 4:30 p.m.

Refreshments 4:00 – 4:30 p.m.

Workshops 4:30 – 6:30 p.m.

1. Genomic communication – Yoel Sadovsky, M.D.
2. New innovations in placental imaging – Antonio Frias, M.D., Victoria Roberts, Ph.D., John Sled, Ph.D.
3. Linkage between placenta and development of other organs – Peta Grigsby, Ph.D.
4. Decidua-trophoblast Interactions – Gendie Lash, Ph.D.
Thursday Sept 15th

Placenta/Trophoblast Research Editorial Board Meeting 7:30 – 8:30 a.m.

New Investigator/*Junior Faculty Session 2 8:30 – 10:00 a.m.

Moderators: Cathy Vaillancourt Ph.D., Anthony Perkins Ph.D.

NI2.01  Amy Valent, D.O., Oregon Health & Science University, Portland OR, USA
“Glycolytic utilization and capacity of human cytotrophoblasts are higher than syncytiotrophoblasts”.

NI2.02  Julien Sallais, M.Sc., Lunenfeld-Tanenbaum Research Institute, Toronto, Canada
“Disruption of Prolyl hydroxylase domain protein-2 (PHD2) activity impairs TGFβ-dependent sphingolipid metabolism in murine placenta”.

NI2.03  *Amit Ganguly, Ph.D. David Geffen School of Medicine at UCLA, Los Angeles CA, USA
“Distinct Molecular Mechanisms Regulate Mammalian Placental Glucose and Leucine Transporter Induced Transport in Response to Varying Degrees of Maternal Calorie Restriction”.

NI2.04  Calais Prince, B.S., University of Texas Health Science Center San Antonio TX, USA
“Manipulation of TRKB Activation Alters Cellular Respiration in Syncytiotrophoblasts”.

NI2.05  Nataliee Cureton, B.Sc., The University of Manchester, UK
“Targeted nanoparticle delivery of a novel nitric oxide donor increased fetal weight in a mouse model of fetal growth restriction”.

NI2.06  *Emily Su, M.D., University of Colorado School of Medicine, Denver CO, USA
“Vascular endothelial growth factor A administration rescues fetoplacental endothelial cell defects seen in severe fetal growth restriction”.

Refreshments 10:00 – 10:30 a.m.

Symposium 2 – 10:30 a.m. – 12:30 p.m.

Trophoblast specification/progenitors

Moderators: Shawn Chavez, Ph.D., Louise Laurent M.D., Ph.D.

O2.01  Hubert Schorle, Ph.D., University of Bonn, Germany
“Trophoblast stem cells from murine fibroblasts – can the mouse serve as blueprint for the human situation?”

O2.02  Mana Parast, M.D., Ph.D., University of California San Diego, San Diego CA, USA
“Human trophoblast stem cells: real or not real?”

O2.03  Soumen Paul, Ph.D., University of Kansas Medical Center, Kansas City KS, USA
“Controlling Multi-stage Trophoblast Development: Orchestration of Progenitor and Differentiated Cell Fate by Transcription Factors”.

Lunchtime session 12:30 – 1:30 p.m.

Regional Placenta Associations Meetings (PAA, EPG, JPG, ANZPRA)

Elsevier Trophoblast Research Award Presentation and Lecture 1:30 – 2:30 p.m.

Moderators: Murray Mitchell, D.Phil., Alina Maloyan, Ph.D.

Claudia Gohner, Ph.D., Jena University Hospital Jena, Germany and University Medical Center Groningen, The Netherlands
“Immune-modulatory effects of syncytiotrophoblast extracellular vesicles during normal and preeclamptic pregnancy”.

Poster Session 2 2:30 – 4:30 p.m.
Refreshments 4:00 – 4:30 p.m.
Workshops: 4:30 – 6:30 p.m.

5. Inflammation – What is it and how does it affect the placenta – Kent Thornburg, Ph.D., Murray Mitchell, D. Phil.
6. Sexual Dimorphism in placental function – Alina Maloyan, Ph.D., Leslie Myatt, Ph.D. FRCOG
7. Key mechanisms and novel insights into trophoblast implantation and invasion – Martin Knoefler, Ph.D., Alexander Beristain, Ph.D.
8. Bioinformatics and omics applied to the placenta– Lucia Carbone, Ph.D.

Friday Sept 16th

Awards Committee 7:30 – 8:30 a.m.
New Investigator/*Junior Faculty Session 3 8:30 – 10:00 a.m.
  Moderators: V Clifton Ph.D., Y Kudo M.D.

NI3.01 Che-Ying Kuo, M.S., University of Maryland College Park, Children’s National Medical Center, Washington D.C., USA
  “3D Printed, Bioengineered Placenta Model Incorporating Decellularized Placental Extracellular Matrix and Primary Trophoblasts”.

NI3.02 Cassidy Blundell, B.S., University of Pennsylvania, Philadelphia PA, USA
  “A microengineered model of the human placental barrier”.

NI3.03 *Carlos Salomon, Ph.D., The University of Queensland, Brisbane, Australia
  “Characterization of exosomal miRNAs present in plasma from women with gestational diabetes mellitus”.

NI3.04 Mancy Tong, B.Sc., The University of Auckland, Auckland, New Zealand
  “In vivo localization and vascular effects of nano-vesicles derived from normal first trimester human placentae”.

NI3.05 Catherine Gilmore, B.Sc., University of Bristol, Bristol, UK
  “A vascularised in vitro placental barrier model using primary human trophoblasts”

NI3.06 *Alina Maloyan, Ph.D., Oregon Health & Science University, Portland OR, USA
  “Placental metabolic flexibility is affected by maternal obesity”.

Refreshments 10:00 – 10:30 a.m.

Andree Gruslin Award Presentation and Lecture 10:30 – 11:30 a.m.
  Moderators: Isabella Caniggia M.D., Ph.D., Ceci Cheung, Ph.D.

AGA Shannon Bainbridge Ph.D, University of Ottawa, Canada
  “Understanding the Molecular Underpinnings of Distinct Subclasses of Preeclampsia”

IFPA Senior Award Presentation and Lecture 11:30 – 12:30 p.m.
  Moderator: Nick Illsley, D. Phil.

IFPA Richard K. Miller, Ph.D., University of Rochester, NY, USA
  “Placenta Toxicology – Susceptibility, Assessment and Contributions to Reproductive and Fetal/Neonatal Outcome”.
Lunchtime session 12:30 – 1:30 p.m.
IFPA Annual General Meeting
Final Poster Judging

Symposium 3 1:30 – 4:00 p.m.
Viral Infection and the Placenta
Moderators: Larry Chamley Ph.D., Peggy Petroff, Ph.D.

O3.01 Sallie Permar, M.D., Ph.D., Duke University, USA
"Immune protection against placental cytomegalovirus transmission in Non-human primate models"

O3.02 Gil G. Mor, M.D., Ph.D., Yale University, USA
“Role of Polymicrobial infection on viral-induced teratogenic effects”

Peta Grigsby, Ph.D., Antonio Frias, M.D., Daniel Streblow, Ph.D., Oregon Health & Science University, Portland OR, USA
“Effect of Zika Virus during primate pregnancy”

Refreshments 4:00 – 4:30 p.m.

Workshops: 4:30 – 6:30 p.m.
9. Trophoblast Biology and Pathology – Shawn Chavez, Ph.D., Julie Baker, Ph.D.
11. Immunology of the maternal-fetal interface – Peggy Petroff, Ph.D., Ted Golos, Ph.D.
12. Trophoblast cell lines: their characteristics and limitations – Graham Burton, Ph.D. Udo Markert, M.D.

Gala Dinner and prizes: Doubletree Hotel 8:00 p.m. - midnight