

2010 ASRI Post-Graduate Course

Monday, May 17, 2010

Nemacolin Woodlands Resort, Farmington, PA

Advanced techniques and integrative approaches at the maternal-fetal interface.

7:30a-4:00p: Registration

Session 1: Advanced techniques to study the maternal-fetal interface and potential translational applications.

9:00-9:45: Virus-mediated gene delivery techniques for primary cells. Andrew Wilber, Southern IL University School of Medicine, Springfield, IL.

9:50-10:35: Combining microRNA and mRNA arrays to understand placental gene expression. Yoel Sadovsky, Director of Research, Magee-Womens Research Institute, Pittsburgh, PA.

10:35-10:55: Refreshments

11:00-11:45: Functional approaches for identification and characterization of effector regulatory cell pathways in reproduction. Khalil Karimi, McMaster University, Hamilton, ON.

12:00-1:00: Lunch with Faculty

Session 2: Integrative studies to understand obstetrical complications.

1:00 – 1:45: Clinical perspectives and consequences of human Intrauterine growth restriction (IUGR) and preterm birth. Katherine Himes, University of Pittsburgh, Pittsburgh, PA.

1:45-3:30: Comparative animal models of IUGR/pre-term birth.

Mouse models for studying preeclampsia and preterm birth. Surendra Sharma, Brown University, Providence, RI.

The sheep as a model of intrauterine growth restriction (IUGR). Juan Arroyo, University of Kansas Medical Center, Kansas City, KS.

Bovine and porcine models of IUGR/preterm birth. Chris Davies, Utah State University, Logan, UT.

3:30-3:50 Coffee break.

4:00-4:45: High-throughput SNP analyses and application in preterm labor. Hy Simhan, Magee-Womens Research Institute, Pittsburgh, PA.

4:45-5:30pm: Discovery of novel human trophoblast proteins by proteomics – potential application to placental function. John Robinson, The Ohio State University, Columbus, OH.

6:00 - 8:00pm: Dinner with Faculty.