

**6<sup>th</sup> International Conference on the Female Reproductive Tract  
Frauenwörth (Chiemsee / Bavaria), Germany  
May 20 - 23, 2011**



**Friday, May 20**

**12.00 am**                      **Registration**

**5.00 pm**                      **Welcome Reception**

**6.00 pm**                      **Dinner**

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**8.00 pm**                      **Key note lectures:**

**Chair: Elke Winterhager**, Essen, Germany

**John Eppig**, Bar Harbor, USA

Oocyte control of ovarian follicular development and function in mammals

**Janet Rossant**, Toronto, Canada

Stem cells and blastocyst formation

## Saturday, May 21

**8.00 am Breakfast**

### **Session 1: Signaling Pathways in the Endometrium**

**Chair: Ken Korach**, Research Triangle Park, USA

**8.45 – 9.10 am Sylvia Curtis Hewitt**, Research Triangle Park, USA  
Estrogen-induced proliferation of uterine epithelial cells is independent of estrogen receptor alpha

**9.10 – 9.35 am Stefan Bauersachs**, Munich, Germany  
Transcriptome analyses of bovine, porcine and equine endometrium during the pre-implantation phase

**9.35 – 9.55 am Ruth Grümmer**, Essen, Germany  
Connexin signaling in embryo implantation

**9.55 – 10.20 am Franco deMayo**, Houston, USA  
Indian hedgehog signaling regulates cell cycle progression in the mouse uterus

**10.20 – 10.35 am Coffee Break**

**10.35 – 11.00 am Nava Dekel**, Rehovot, Israel  
Local injury of the endometrium induces an inflammatory response that promotes successful implantation

**11.00 – 11.25 am Steven Young**, Chapel Hill, USA  
Progesterone action on human endometrium: clinical and physiological perspectives

**11.25 – 11.50 am Cheryl Walker**, Anderson, USA  
Reprogramming hormone responsiveness and susceptibility to tumorigenesis in the developing uterus

**12.15 am Lunch**

**Session 2: Impaired Signaling in Endometrial Disorders:**

**Endometriosis**

**Chair: Ulrike Fuhrmann**, Berlin, Germany

**1.15 – 1.40 pm Bo Rueda**, Boston, USA  
Antagonistic effects of Omega 3 fatty acid on endometriosis

**1.40 – 2.05 pm Christian Becker**, Oxford, UK  
Angiogenesis and anti-angiogenesis in endometriosis

**2.45 pm Excursion (Castle Herrenchiemsee)**

**7.00 pm Dinner**

**Session 3: Impaired Signaling in Endometrial Disorders:**

**Fibroids**

**Chair: Ulrike Fuhrmann**, Berlin, Germany

**8.30 – 8.55 pm Romana A. Nowak**, Illinois, USA  
Mechanisms involved in altered growth factor signaling in uterine leiomyomas

**8.55 – 9.20 pm James H. Segars**, Bethesda, USA  
Mechanical stress and development of leiomyoma

**Sunday, May 22**

**8.00 am Breakfast**

**Session 4: Therapy Concepts upon Selective Anti-Estrogen Actions**

**Chair: Ken Korach**, Research Triangle Park, USA

- 8.45 – 9.10 am** **Geoffrey Greene**, Chicago, USA  
Estrogen receptor ligands: Molecular mechanisms and applications in the reproductive tract
- 9.10 – 9.35 am** **Barry S. Komm**, Pennsylvania, USA  
Novel selective estrogen receptor modulators and their effects on the uterus, mammary gland, breast cancer cells and the skeleton
- 9.35 – 10.00 am** **C. Richard Lyttle**, Cambridge, USA  
Potential role of selective estrogen receptor modulators in the treatment of vasomotor symptoms

**10.00 – 10.15 am** **Coffee break**

**Session 5: Signals in Oocyte Maturation**

**Chair: Nava Dekel**, Rehovot, Israel

- 10.15 – 10.40 am** **Jo Anne S. Richards**, Houston, USA  
The ovary: basic biology and clinical implications
- 10.40 – 11.05 am** **Jerry Kidder**, London, Canada  
Gap junction-mediated signaling in oocyte and follicle growth
- 11.05 – 11.30 am** **Mathias Treier**, Heidelberg, Germany  
Somatic sex reprogramming of adult ovaries to testes

**Session 6: Cell Lineage Decision: Embryo versus Placenta**

**Chair: Franco deMayo**, Houston, USA

- 11.30 – 11.55 am** **Myriam Hemberger**, Cambridge, UK  
Epigenetic lineage boundaries define distinct stem cell types of the early embryo
- 11.55 – 12.20 pm** **Hubert Schorle**, Bonn, Germany  
Main players converting ES cells into TS cells

**12.30 pm** **Lunch**

**2.00 – 3.00 pm** **Session 7: Free Communications**

**Chair: Ruth Grümmer**, Essen, Germany

**3.00 – 5.00 pm Poster Session**

**Session 8: Signaling in Trophoblast Differentiation**

**Chair: Alexandra Gellhaus, Essen, Germany**

**5.00 – 5.25 pm Claire Roberts, Adelaide, Australia**  
Beyond oxygen: Complex regulation of trophoblast activity

**5.25 – 5.50 pm Michael Soares, Kansas City, USA**  
Natural killer cells, hypoxia and trophoblast invasion

**5.50 – 6.15 pm Alexandra Gellhaus, Essen, Germany**  
Imbalance in oxygen-sensitive migration factors at the fetal-maternal interface in preeclampsia

**6.15 – 6.40 pm Martin Knöfler, Vienna, Austria**  
Wnt and Notch signaling in human trophoblast invasion

**6.40 – 7.05 pm Kathleen Caron, Chapel Hill, USA**  
Fetal signals that contribute to maternal adaptation to pregnancy

**8.00 pm Conference Dinner**

**Monday, May 23**

**8.00 am Breakfast**

**DEPARTURE**