

**Reproductive Biology and Immunology Autumn School, Magdeburg 2011**

**Program**

**MAGDEBURG AUTUMN SCHOOL ON REPRODUCTIVE BIOLOGY AND IMMUNOLOGY**

**Wednesday, October 5<sup>th</sup> – Saturday, October 8<sup>th</sup>, 2011**

**Venue:** Herrenkrug Park Hotel  
Herrenkrug 3  
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**Scientific Organization:** Prof. Dr. Ana Claudia Zenclussen & Dr. Federico Jensen. Experimental Obstetrics and Gynecology Medical Faculty, Otto-von-Guericke-University, Magdeburg, Germany.

**Scientific Committee:** Ana Claudia Zenclussen (Magdeburg, Germany), Federico Jensen (Magdeburg, Germany), Monica Vazquez-Levin (Buenos Aires, Argentina), Gil Mor (New Haven, USA), Anne Leber (Magdeburg, Germany), Petra Arck (Hamburg, Germany).

**CONFERENCE PROGRAM**

**Wednesday, October 5<sup>th</sup> 2011**

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**17:00 Welcome Ceremony**

**18:00 Keynote Lecture**

Chair: Ana Claudia Zenclussen

**Gil Mor**, Yale Medical School, New Haven, USA: **“Pregnancy and inflammation: the good and the bad”**

**19:00 Dinner and get together**

**Thursday, October 6<sup>th</sup> 2011**

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**Morning Session I:**

Chairs: Berthold Huppertz/Federico Jensen

**8:00 Signalling crosstalk of nuclear hormone receptors in the female reproductive tract”**

**Günter Vollmer**, Institute for Zoology, Technische Universität, Dresden, Germany.

**8:50 Molecular determinants of sperm-oocyte interactions**

**Monica Vazquez-Levin**, National Research Council of Argentina, Buenos Aires, Argentina.

**9:40 Coffee break**

**10:00 Molecular and cellular mechanisms involved on the process of embryo implantation**

**Udo Markert**, Placenta laboratory, Friedrich-Schiller-Universität

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Jena, Germany.

### **10:50 Placenta physiology and regulation**

Berthold Huppertz, Medical University, Graz, Austria.

### **Workshop I**

#### **11:40 Cells at the fetal-maternal interface**

**Gil Mor**, Yale University School of Medicine, New Haven, USA.

#### **12:30 Lunch**

#### **14:00 Practical training I**

A) Isolation of immune cells from murine decidua. Sample preparation and analysis by flow cytometry. Assistants: Anne Leber, Nadja Linzke, Katja Woidacki, Tarek El-Mousleh, Ana Teles.

B) Isolation of murine spermatozoa and oocytes, sperm capacitation and in vitro sperm-oocyte interaction assays. Assistants: Mónica Vazquez-Levin, Nadia Edelsztein.

#### **17:30 Boat trip with sightseeing followed by an informal party at Mückenwirt ([www.mueckenwirt.de](http://www.mueckenwirt.de)).**

**Friday, 7 October 2011**

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### **Minicourses**

Chairs: Guillermina Girardi/Serban-Dan Costa

#### **8:00 Minicourse I: How to plan, organize and conduct animal experiments.**

**Oliver Zierau**, Institute for Zoology, Technische Universität, Dresden, Germany.

**8:30 Minicourse II: The long way from the bench to the patients, going from basic research to clinical trials.**

**Serban-Dan Costa**, Department of Obstetrics and Gynecology, Medical Faculty, Otto-von-Guericke University, Magdeburg, Germany.

**09:00 Selected oral presentations**

Chairs: Günter Vollmer/ Katja Woidacki

**09:00 (1) Notch pathway expression in the male mouse reproductive tract**

**Murta D**, Batista, Trindade A, Silva E, Henrique D, Duarte A, Lopes da Costa L

**09:15 (2) IL-17A concentration of seminal plasma and follicular fluid in infertile men and women with various clinical diagnoses**

**Mohammad Ali Sabbaghi**, Hessam Roustaei, Raheleh Aram, Mahla Fadavi Islam, Maryam Daneshvar, Raul Castano, Alireza Haghparast

**09:30 (3) Influence of transgenerational soy isoflavones exposition on physiological and endocrinological relevant parameters in female rats**

**Thomas Brockmann**, Annekathrin Keiler, Oliver Zierau, Günter Vollmer

**09:45 (4) The cytoskeletal protein LASP is expressed by trophoblast cells and chorioncarcinoma cells and modulates their proliferation and migration**

**S.E. Segerer**, L. Rieger, M. Kapp, J. Dietl and U. Kämmerer

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**10:00 (5) Epidermal Growth Factor triggers STAT5 phosphorylation and enhances proliferation of trophoblastic cell lines.**

**Ospina-Prieto S**, Morales-Prieto DM, Markert UR

**10:15 (6) Anti-microbial peptide expression in the female reproductive tract in response to reproductive status and viral infection**

**Karen Racicot**, Ingrid Cardenas, Paulomi Aldo, and Gil Mor.

**10:30 (7) Origin of regulatory T cells during pregnancy**

**Teles A**, Leber A, Scharm M, Zenclussen A.C

**10:45 Coffee Break**

### Workshop II

**11:00 Animals models for studying pathologies related to pregnancy**

**Guillermina Girardi**, The Queen's Medical Research Institute, University of Edinburgh, UK.

### Morning session I

Chairs: Carlos Tadakoro/Franziska Schäfer

**11:50 *In vivo* imaging of the immune system**

**Matthias Gunzer**, Institute for Clinical and Molecular Immunology, Medical Faculty, Otto-von-Guericke University, Magdeburg, Germany.

**12:40 Lunch**

### Afternoon Session I

Chair: Stefan Fest

**14:00 Management of pre-term birth**

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**Serban-Dan Costa**, Department of Obstetrics and Gynecology, Medical Faculty, Otto-von-Guericke University, Magdeburg, Germany.

**14:50      *In vitro* fertilization**

**Jürgen Kleinstein**, Department of Reproductive Medicine, Medical Faculty, Otto-von-Guericke University, Magdeburg, Germany.

**15:40      Coffee break**

### **Afternoon Session II**

Chairs: Udo Markert/ Nadja Linzke

**16:00      Human natural killer cells in uterine mucosa**

**Judith Bulmer**, Newcastle University, Medical School, Newcastle, UK.

**16:50      Uterine natural killer cells: new paradigms**

**Anne Croy**, Queen's University Kingston, Queens, Canada.

**17:30      Neuroendocrine regulation of fetal-maternal interaction**

**Petra Arck**, Experimental Feto-Maternal Medicine, Eppendorf University, Hamburg, Germany.

**19:00      Poster Party (snacks and wine)**

### **Saturday 8, October 2011**

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**9:00      Practical training II (*in vivo* imaging of the uterus)**

**Dr. Carlos Tadokoro**, Lab of Immune Regulation and Unit of Cell Imaging, Instituto Gulbenkian de Ciência, Oeiras, Portugal.