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## The sinuous paths for a career in reproductive biology

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Tagungsort:

Weimar



**21<sup>st</sup> Workshop Molecular Biology**  
*of the German Society for Reproductive Medicine (DGRM)*

**21. Arbeitskreis Molekularbiologie**  
*der Deutschen Gesellschaft für Reproduktionsmedizin (DGRM)*

09.12.-10.12.2022 in Weimar

## **Programm**



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**Friday, 09.10.2022****16:00** Come together**17:00** Welcome and opening**Invited Key Note Lecture****17:10** Chavatte-Palmer Pascale Jouy-en-Josas, France The sinuous paths for a career in reproductive biology**18:00** Group discussions and snacks**Saturday, 10.12.2022****Session Ovary and Endometrium****09:00** Wolff von Gudenberg Helena Heidelberg Extractions from ovarian granulosa cells may have the potential to change the receptivity of the endometrium during the implantation window**09:15** Altgilbers Stefanie Mariensee Genome editing in primordial germ cells of domestic chicken – blue eggshell color**09:30** Yang Zhiqi Tübingen Loss of endometrial DJ-1 (PARK7) is associated with recurrent pregnancy loss**09:45** Heukamp Mariam Münster Establishment of a cell culture based 3D-in vitro-endometrial-model to explore endometrial receptivity in the context of female infertility**10:00** Obermeyer Ulla Münster Impact of cytokines and transgelin on proreceptive gene expression and trophoblast adhesion in a novel 3D model of the window of implantation**10:15** Coffee break**Session Embryo and Male fertility****10:45** Nikolou Iliana Tübingen Embryo-derived trypsin-induced Ca<sup>2+</sup> entry is blocked by infertility factor, LEFTY2**11:00** Neufeld Gregor Mariensee Dissecting the influence of IVF on bovine embryo development through single cell sequencing**11:15** Kovacevic Andela Bonn Cylicins are a structural component of the sperm calyx being indispensable for male fertility in mice and human**11:30** Wiesejahn Christoph Bonn Prm1+/- Prm2+/- male mice are infertile and display various defects in sperm, as well as early arrest during preimplantation development**11:45** Hamers Ilsa Bonn Generation of a novel protamine allele allows testing of current hypotheses on protamine function**12:00** Herbicht Rebecca Mariensee Evaluation of a new sperm purification device for preparing bovine frozen-thawed semen for *in vitro* fertilization**12:15** Lunch**Session Placenta, Preeclampsia I****13:30** Raja-Xavier Janet Tübingen Placental Growth Factor mediated maternal NFAT5-SGK1-VEGF signaling axis in the pathogenesis of preeclampsia**13:45** Mittelberger Johanna Augsburg The programmed cell death protein 1 (PD1) and its ligand (PD-L1) are significantly downregulated on macrophages and Hofbauer cells in the placenta of preeclampsia patients  
**14:00** Valdes Daniela Berlin Impaired placental cell communication at the maternal foetal interface in gestational hypertension and environmental stress**14:15** Reisch Beatrix Essen Therapeutische Ansätze zur Entfernung des anti-angiogenen sFLT-1 bei der Präeklampsie – Daten aus der Klinik und im Mausmodell**14:30** Riedel Alina Essen Erhöhte Level von Anti-Angiogenese während der Schwangerschaft verändern die maternalen Immunantworten und die lymphatische Mimikry in den Spiralarterien in einem transgenen sFLT-1 Mausmodell der Schwangerschaftserkrankung Präeklampsie**14:45** Coffee break**Session Placenta, Preeclampsia II****15:00** Murrieta-Coxca José Martin Jena Effect of preeclampsia-derived EVs on the blood-brain barrier integrity and microglia activation using static and microfluidic models**15:15** Ujcic Kaja Jena Placental extracellular vesicles could modify hematopoiesis during pregnancy**15:30** Große Silke Jena Multiplexing senescence markers in the placenta: elucidating premature aging in pregnancy pathologies by spatial phenotyping**15:45** Fuentes Zacarías Paulina Jena Placental transfer of PETN by ex vivo human placenta perfusion**16:00** Election of the best presentation  
Award ceremony  
End and farewell