



## 56<sup>TH</sup> ANNUAL MEETING FOR PHYSIOLOGY AND PATHOLOGY OF REPRODUCTION AND 48<sup>TH</sup> JOINT MEETING OF VETERINARY AND HUMAN REPRODUCTIVE MEDICINE

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### PROGRAM

**General Theme: „United Excellence – Reproductive Research in Animals and Men 2023“**

**Time: March 1-3, 2023**

**Location: Teaching Hall of the Medical Faculty of the University Münster /  
UKM, Lehrgebäude, Albert-Schweitzer-Campus 1, Geb. A6, 48149 Münster**

### WEDNESDAY, MARCH 1, 2023

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From 14:45	<b>Registration &amp; Coffee break</b>
15:00-16:00	Meeting of the DVG group Reproductive Medicine
16:15	Welcome (Congress President / FBN / DVG / DGRM)

### Opening Session: New tools in Reproductive Technology

16:30-17:15	<b>Keynote 1</b> Testicular Organoids: Promising strategies for research and applications? <i>Prof. Ina Dobrinski, Professor Comparative Biology &amp; Experimental Medicine, University of Calgary, Canada</i>
17:15-17:45	<b>Short communications</b> Establishment of placental 3-dimensional-(3D)-spheroid cultures to study the tropism of <i>Coxiella burnetii</i> for ovine trophoblasts <i>Dr. Jan-Dirk Haeger, Friedrich-Loeffler-Institut, Institute of Molecular Pathogenesis, Jena, Germany</i>  Defining the transcriptome of in vivo derived bovine embryos through single-cell sequencing <i>Prof. Dr. Claudia Klein, Friedrich-Loeffler-Institut, Institute of Farm Animal Genetics (ING), Mariensee, Germany</i>
17:45-18:30	<b>Keynote 2</b> Embryo biotechnology for the generation of innovative medical models <i>Prof. Eckhard Wolf, Gene Center and Department of Veterinary Sciences, LMU Munich, Germany</i>
From 18:30	Welcome Evening & Poster Slam



**THURSDAY, MARCH 2, 2023**

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## **Session 2: Germline Preservation**

8:30-9:15

### **Keynote 3**

New insights and novel treatment options for fertility preservation in human females  
*Prof. Richard Anderson, Centre for Reproductive Health, The Queen's Medical Research Institute, Edinburgh, UK*

9:15-9:45

### **Short communications**

Hypothermic preservation of boar semen at 5 °C: a field test  
*Florian Reckinger, Faculty of Agricultural Sciences and Landscape Architecture, Osnabrück University of Applied Sciences, Osnabrück, Germany*

Regulation of local produced novel adipokines during different reproductive stages in the bovine ovary  
*Granit Thaqi, Animal Physiology and Immunology, School of Life Sciences, Technical University of Munich, Weihenstephan, Germany*

9:45-10:30

### **Keynote 4**

Assisted reproduction for endangered wildlife breeding – a true conservation tool?  
*Dr. Imke Wiemann, Allwetterzoo Münster*

10:30

### **Coffee Break and Poster Session I**

## **Session 3: DGRM Price Session, AG MuT**

11:30-12:30

### **DGRM presentation and short communications**

MicroRNA profiling of oviductal extracellular vesicles and early embryos reveals molecular 'snitches' on embryo quality  
*Dr. Carmen Almiñana, Institute of Veterinary Anatomy, Vetsuisse-Faculty Zurich, University of Zurich, Lindau (ZH), Switzerland*

Filamin A – a new player in the ovary  
*MSc Yuhao Jiang, Biomedical Center (BMC), Cell Biology, Anatomy III, Faculty of Medicine, Ludwig Maximilian University Munich (LMU), Planegg, Germany*

Functional analysis of the histidine N-methyltransferase SETD3 in endometriosis  
*Melanie Poloczek, Department of Gynecology and Obstetrics, University Hospital Muenster, Muenster, Germany*

12:30-13:30

### **Lunch Break**

13:00

General Meeting of the DGRM working group  
"Reproduction in Humans and Animals" (AG MuT), Seminarraum 1. OG



## THURSDAY, MARCH 2, 2023 – CONTINUATION

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### Session 4: Female Reproduction

- 13:30-14:15 **Keynote 5**  
Models for embryo implantation and decidualization:  
A story of adhesion and invasion  
*Prof. Asgi T Fazleabas, Gynecology and Reproductive Biology, Michigan State University, USA*
- 14:15-14:45 **Short communications**  
Characterization of bovine placental trophoblast giant cell migration by three-dimensional reconstruction  
*André Dörr, Institute for Anatomy, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*  
  
Nutritional imbalance and FSH-induced ovarian hyperstimulation have an impact on the transcriptome of the ovine caruncular endometrium  
*Özlem Bedir, Institute of Veterinary Anatomy, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland*
- 14:45-15:30 **Keynote 6**  
Uterus transplantation: From animal models to the implementation of new clinical procedures  
*Prof. Mats Brännström, Department of Obstetrics & Gynecology, Sahlgrenska Academy, University of Gothenburg, Sweden*
- 15:30 **Coffee Break**

### Session 5: Male reproduction

- 16:00-16:45 **Short communications**  
M1AP's role in male infertility: a comparative study in mice and men  
*Nadja Rotte, Institute of Reproductive Genetics, University of Münster, Münster, Germany*  
  
Reproductive management of llama and alpaca flocks in Germany - results from a survey among animal owners  
*Dr. Henrik Wagner, Clinic for Obstetrics, Gynecology and Andrology, Justus Liebig University Giessen*  
  
Morphological changes in the canine epididymis during recovery after 5-months treatment with a deslorelin implant  
*Henriette Greiner, Unit for Reproductive Medicine – Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*



## THURSDAY, MARCH 2, 2023 – CONTINUATION

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16:45-17:30

### Keynote 7 (Zoo Lecture Hall)

Building the super sperm

*Prof. Moira O'Bryan, Dean Faculty of Science, The University of Melbourne, Victoria, Australia*

19:00

**Zoo tour and Conference Dinner in Zoo restaurant**

## FRIDAY, MARCH 3, 2023

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### Session 6: FBF Session

8:30-9:45

#### Invited talks

Correlation between fertility according to AI and embryonic development characteristics according to IVF in semen of Holstein Friesian sires

*Prof. Dr. Michael Hölker, Department of Animal Science, Biotechnology & Reproduction in farm animals, University of Goettingen, Goettingen, Germany*

Comparative assessment of the stress level of dairy cows from stimuli encountered in everyday life

*Katja Könneker, Institute for Reproduction of Farm Animals Schönow, (IFN Schönow), Bernau bei Berlin, Germany*

Hypothermic, antibiotic-free preservation of boar semen is effective against multidrug resistant *Serratia marcescens*

*Isabel Katharina Maaßen, Unit for Reproductive Medicine, Clinic for Pigs and Small Ruminants, University of Veterinary Medicine, Hannover, Germany*

Seasonal changes of microRNA expression in cryopreserved bovine spermatozoa

*Dr. Eleni Malama, Klinik für Reproduktionsmedizin, Departement für Nutztiere, Vetsuisse-Fakultät, Universität Zürich, Switzerland*

Compensability of morphological sperm defects: a basis for the revision of minimum requirements for the use of boar semen

*Prof. Dagmar Waberski, Unit for Reproductive Medicine, Clinic for Pigs and Small Ruminants, University of Veterinary Medicine Hannover, Hannover, Germany*



## FRIDAY, MARCH 3, 2023 – CONTINUATION

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### Session 7: Replace or Improve: Where are we going with experimental animal research?

9:45-10:30

#### Keynote 8

Chances and limits of microfluidic chip technology in biomedical applications  
*Prof. Séverine Le Gac, Applied Microfluidics for BioEngineering Research (AMBER), MESA+ Institute for Nanotechnology, TechMed Centre, University of Twente, Enschede, The Netherlands*

10:30

#### Coffee Break and Poster Session II

### Session 7 – Continuation

11:30-12:00

#### Short communications

Saturated fatty acids in the follicular fluid are indispensable for the endocrine regulation of the ovarian cycle and estradiol production

*Dr. Vijay Simha Baddela, Institute of Reproductive Biology, Research Institute for Farm Animal Biology (FBN), 18196 Dummerstorf, Germany*

Endometrial gene expression in isolated hemoperfused equine uteri

*Emilia Diel, Unit for Reproductive Medicine – Clinic for Horses, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*

12:00-12:45

#### Keynote 9

Never replicate a successful experiment? Facing the reproducibility crisis in animal research

*Prof. Helene Richter, Institute for neuro- and behavioural biology, University Münster*

12:45

#### Lunch Break

### Session 8: Breeding of pets: Shall we do what we can?

13:45-14:30

#### Keynote 10

Are we breeding our best friends to death?

Derailed ideas of beauty and detrimental inbreeding in dogs

*Prof. Dr. Achim Gruber, Department of Veterinary Medicine, Institute of Veterinary Pathology, FU Berlin*



## FRIDAY, MARCH 3, 2023 – CONTINUATION

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14:30-15:00

### Short communications

T cells in testicular germ cell tumors: New evidence of functional contributions by rare subsets

*Rashidul Islam, Dept. of Veterinary Anatomy, Histology and Embryology, Justus Liebig University, Giessen, Germany/Centre for Reproductive Health, Hudson Institute for Medical Research, Clayton, Victoria, Australia*

The infection course of uropathogenic *Escherichia coli* induced epididymo-orchitis is affected by changes in iron homeostasis

*Dr. Aileen Harrer, Institute of Anatomy and Cell Biology, Unit of Reproductive Biology, Justus-Liebig-University of Giessen, Giessen, Germany*

15:00

### Conference Poster Prizes

15:15

### Goodbye



## Poster

1. Generation of an orthotopic mouse model to study Caspase-8 biology and cell contact in human ovarian cancer  
*S. M. Aberoumadi, Institute for Veterinary Anatomy, Histology and Embryology, Justus Liebig University Giessen, Germany*
2. Effect of zinc, selenium, and vitamin E administration on the seminal antioxidant status and lipid peroxidation in infertile male dromedary camels  
*A. Ali, Department of Veterinary Medicine, College of Agriculture and Veterinary Medicine, Qassim University, Saudi Arabia*
3. Clinicopathological features of an ovarian teratoma in an Arabian mare  
*F. A. Al-Sobayil, Department of Veterinary Medicine, College of Agriculture and Veterinary Medicine, Qassim University, Saudi Arabia*
4. Details matter – freezing rate in sperm cryopreservation  
*M. Bashawat, Leibniz Institute for Zoo and Wildlife Research, Department Reproduction Biology, Berlin, Germany*
5. Establishment of a bovine granulosa- and theca co-culture  
*A. Baufeld, Research Institute for Farm Animal Biology (FBN), Wilhelm-Stahl-Allee 2, Dummerstorf*
6. Lipid interaction partners of recombinantly expressed porcine spermadhesin AQN-3  
*B. C. Braun, Leibniz Institute for Zoo and Wildlife Research, Department Reproduction Biology, Berlin, Germany*
7. Alpha 7 nicotinic receptors are involved in the regulation of ovarian functions (Part II)  
*K. M. Caban, Gene Center - Laboratory for Functional Genome Analysis, Ludwig-Maximilian-University (LMU), Munich, Germany*
8. Bull-, management- and environment-related factors affecting the DNA integrity of cryopreserved sperm  
*B. Cinar, Klinik für Reproduktionsmedizin, Departement für Nutztiere, Vetsuisse-Fakultät, Universität Zürich, Switzerland*
9. Intracellular pathways associated with the function of canine decidual cells: involvement of selected protein kinases and their relation to progesterone signaling  
*I. De Geyter, Institute of Veterinary Anatomy, Vetsuisse Faculty, University of Zurich (UZH), Zurich, Switzerland*



10. Extraction techniques of pork ovarian follicles for the construction of artificial ovaries  
*R. Dittrich, Frauenklinik des Universitätsklinikums Erlangen, Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany*
11. The importance of retraining herd-owner inseminators in dairy cattle: status quo  
*A. Enzig-Strohm, Institute for Reproduction of Farm Animals Schönow, Bernau bei Berlin, Germany*
12. TRPV2 in the human ovary and human granulosa cells  
*K. Eubler, Biomedical Center Munich (BMC), Cell Biology, Anatomy III, Ludwig-Maximilian-University (LMU), Planegg-Martinsried, Germany*
13. Roundup and glyphosate supplementation during in vitro maturation impact bovine embryonic development  
*A.-S. Fries, Chair for Molecular Reproductive Medicine, Clinic for Veterinary Obstetrics, Gynecology and Andrology, Justus-Liebig-University Giessen, Giessen, Germany*
14. Fertility in high-volume-insemination in cattle  
*M. Fuchs, Bayern-Genetik GmbH, Altenbach*
15. Artiodactyla, but not other mammals, have multiple copies of the aromatase gene  
*R. Furbass, Institut für Fortpflanzungsbiologie, Forschungsinstitut für Nutztierbiologie (FBN), Dummerstorf, Germany*
16. Spatial and temporal distribution of the ruminant syncytin-like Berv-K1 in the bovine placenta and possible presence in placental extracellular vesicles  
*J. Galli, Veterinär-Anatomisches Institut, Vetsuisse Fakultät, Universität Zürich, Switzerland*
17. Transcriptomic effects of moderate and severe hypoxia on MA-10 murine Leydig cells  
*L. A. B. Gomes, Kowalewski, Institute of Veterinary Anatomy, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland.*
18. Vitriification of bovine in vitro produced embryos using a semi-automated instrument  
*L. A. González-Grajales, Phönix Repro, GmbH, Bernau bei Berlin, Germany*
19. Lactobacillus-conditioned medium supplemented during in vitro maturation of bovine oocytes helps to overcome the negative LPS effect  
*O. Granacher, Clinic for Veterinary Obstetrics, Gynecology and Andrology, Faculty of Veterinary Medicine, Justus-Liebig-University Giessen, Germany*
20. Radiological evaluation of extra genital endometriosis: four case series  
*L. Hacioglu, SBÜ Training and Research Hospital Van, Turkey*





21. Effect of vibration emissions on boar sperm quality during shipping: interaction of vibration intensity, transport and storage time  
*T. Hafemeister, Institute for Reproduction of Farm Animals Schönnow, Bernau, Germany*
22. Impact of maternal age on the expression of the anti-oxidative and anti-glycative enzymes in human uterus  
*E. Halbauer, Department of Anatomy and Cell Biology, Martin Luther University Halle-Wittenberg, Halle (Saale), Germany*
23. Glucose and calcium concentrations in cats with dystocia: a retrospective analysis  
*D. Hardegen, Clinic for obstetrics, gynecology, and andrology of small and large animals with an ambulatory service of Justus-Liebig-University, Giessen, Germany*
24. Hypoxia regulates protein abundance and inflammatory factors in human granulosa cells  
*M. Höfner, Biomedical Center Munich (BMC)*
25. Change of progesterone receptors expression during luteinisation of granulosa cells of domestic cat in vitro  
*M. M. Hryciuk, Leibniz Institute for Zoo and Wildlife Research, Department Reproduction Biology, Berlin, Germany*
26. Host range determination and classification of bacteriophages specific to equine genital pathogens  
*R. Hüscher, Unit for Reproductive Medicine – Clinic for Horses, University of Veterinary Medicine, Foundation, Hannover, Germany*
27. The effect of oxytocin stimulation on canine myometrial contractions in the organ bath  
*C. Jungmann, Unit for Reproductive Medicine – Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*
28. A Multi-faceted Approach to Differentiation of Male Germ Cells from Primates  
*P. W. Kibui, Centrum für Reproduktionsmedizin und Andrologie, Medizinische Fakultät, Westfälische Wilhelms-Universität Münster, Germany*
29. Regulation of IL1B and IL1RA mRNA expression in bovine endometrial explants after treatment with selected bacterial components and cytokines  
*A. M. Kneidl, Schabmeyer, Clinic for Ruminants with Ambulatory and Herd Health Services, Centre for Clinical Veterinary Medicine, Ludwig Maximilians University Munich*
30. Evaluation of serum anti-Müllerian hormone concentrations following treatment with vitamin D in dairy heifers  
*D. Koca, Clinic for veterinary obstetrics and gynecology, Van YY- University, Van, Turkey*



31. Expression of hormone receptors, PTGS2 and KI-67 in canine vaginal tumors  
*H. Körber, 1Unit for Reproductive Medicine – Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*
32. Utilizing mass spectrometry to identify proteomic changes in human sperm with abnormal morphology and motility  
*S. D. Kothalawala, Institute for Veterinary Anatomy, Histology and Embryology, Justus Liebig University Giessen, Germany*
33. Effect of the developmental environment on mitochondrial respiration characteristics of bovine cryopreserved blastocysts  
*J. Kurzella, Institute of Animal Science, Animal Breeding, University of Bonn, Bonn, Germany*
34. Vaginal flora of the bitch: a retrospective data analysis  
*A. Leps, Unit for Reproductive Medicine– Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*
35. The Dummerstorf high-fertility mouse line 1 – a worldwide unique model for increased female reproductive performance  
*C. L. M. Ludwig, Research Institute for Farm Animal Biology (FBN), Dummerstorf, Germany*
36. Case report: Congenital vulvar hypoplasia with and without secondary azotemia and urinary phlegmon in an adult and newborn female alpaca  
*J. Lüttgenau, Clinic of Reproductive Medicine, Vetsuisse Faculty, University of Zurich, Switzerland*
37. Influence of different extenders for cryopreservation and equilibration times on sperm quality and fertility in Holstein Friesian bulls in Germany  
*T. Meschede, Rinder-Union West eG, Muenster, Germany*
38. Post-mortem assessment of the reproductive status of male wolves (*Canis lupus*) in Germany  
*K. Müller, Leibniz Institute for Zoo and Wildlife Research (IZW), Berlin, Germany*
39. Sertoli cell number is altered in dogs with immune-mediated orchitis  
*P. Rehder, Unit for Reproductive Medicine– Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*
40. HIF-1 $\alpha$  modulates the expression of cell survival and glucose uptake – related genes in bovine granulosa cells  
*K. Abbasi Samie, Institute of Veterinary Anatomy, Vetsuisse Faculty Zurich, Switzerland*



41. Association between components of the IGF system in blood and in the oocyte microenvironment (follicular fluid) in dairy cows  
*C. Schiffrers, Martin-Luther University Halle-Wittenberg, Faculty of Natural Sciences III, Institute of Agricultural and Nutritional Sciences, Animal Health Management*
42. Extraction forces at different traction modes during manually assisted calving - an in vivo study  
*S. Schmidt, Clinic for Ruminants (Internal medicine and Surgery), University of Giessen, Giessen, Germany*
43. Teat cistern and udder parenchyma differentially respond to Staphylococcus (S.) aureus and Escherichia (E.) coli challenge in a bovine explant model  
*J. Schneider, Petzl, Clinic for Ruminants with Ambulatory Clinic and Herd Health Management, Centre for Clinical Veterinary Medicine, Ludwig-Maximilians-University Munich, Germany;*
44. Effect of mito-tempo on embryonic development and cryogenic variability of IVP derived bovine blastocysts  
*M. Schreiber, Department of Animal Science, Biotechnology & Reproduction in farm animals, University of Goettingen, Goettingen, Germany*
45. Immunohistochemical and gene expression studies of oestrogen, progesterone, oxytocin and prostaglandin F2alpha receptors in the bovine uterus during the postpartum period  
*C. Schwär, Clinic for Cattle*
46. Causes of dystocia in the cat  
*S. Sendag, Clinic for veterinary obstetrics and gynecology, Van YY- University, Van, Turkey*
47. Alpha 7 nicotinic receptors are involved in the regulation of ovarian functions (Part I)  
*P. Seßenhäusen, Biomedical Center (BMC), Cell Biology, Anatomy III, Faculty of Medicine, Ludwig Maximilian University Munich (LMU)*
48. Ovarian stromal cells contribute to tumor progression in bovine ovary  
*A. Sharma, Institut für Fortpflanzungsbiologie, Forschungsinstitut für Nutztierbiologie (FBN) Dummerstorf, Germany*
49. The potential of oxytocin-antagonists as a new therapeutic for the treatment of benign prostatic hyperplasia  
*B. Stadler, Institute of Anatomy and Cell Biology, Justus-Liebig-University, Giessen, Germany*



50. Effects of the glucocorticoids, Dexamethasone and Cortisol, on Human Testicular Peritubular Cells  
*Y. K. Stepanov, Laboratory for Functional Genome Analysis LAFUGA, Gene Center, LMU München, München, Germany.*
51. Unsaturated fatty acids induce glycolytic consumption of glucose in granulosa cells  
*X. Tao, Institute of Reproductive Biology, Research Institute for Farm Animal Biology (FBN), Dummerstorf, Germany*
52. The determination of SERPINA14 in ovarian tissue, immature and *in vitro* matured cumulus-oocyte complexes in cattle  
*A. Turhan, Clinic of Reproductive Medicine, Department of Farm Animals, Vetsuisse Faculty University of Zurich, Zurich, Switzerland*
53. Influence of processing bovine colostrum on anti-trypsin activity  
*L. Trzebiatowski, Clinic for Obstetrics, Gynaecology and Andrology of Large and Small Animals, Justus-Liebig University, Gießen, Germany*
54. Androgen signaling during downregulation and recovery subsequent to 5-months deslorelin treatment  
*A. Vasetska, Unit for Reproductive Medicine – Clinic for Small Animals, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany*
55. Correlations between colostrum composition and blood parameters of sows  
*A. Vernunft, Research Institute for Farm Animal Biology (FBN), Dummerstorf, Germany*
56. *Lactobacillus buchneri* showed increased growth rate in the presence of bovine mucus collected at estrus in contrast to *Trueperella pyogenes*  
*T. Wahl, Institute of Veterinary Biochemistry, Freie Universität Berlin, Germany*
57. Spermatocoele in a three-year-old Galloway bull – A case report  
*M. Wiebe, Klinik für Rinder, Stiftung Tierärztliche Hochschule Hannover, Germany*
58. Stimulating the androgenic response through administration of an LHR agonist to Leydig cells obtained from the 41,XXY\* Klinefelter syndrome mouse model  
*J. Wistuba, Institute of Reproductive and Regenerative Biology, Centre of Reproductive Medicine and Andrology, University Clinics Münster*
59. Glutathione peroxidase activity and total antioxidant capacity in spermatozoa of dogs with benign prostatic hyperplasia  
*S. Zduńczyk, Department of Animal Reproduction with Clinic, University of Warmia and Mazury, Olsztyn, Oczapowskiego 14, Poland*