

Conference Program

**48th Annual Conference Physiology and Pathology of Reproduction and simultaneously
40th Joint Congress of Veterinary and Human Medicine**

February Conference 2015

Zurich, Switzerland, 11th – 13th February 2015

48. Jahrestagung Physiologie und Pathologie der Fortpflanzung und gleichzeitig
40. Veterinär-Humanmedizinische Gemeinschaftstagung

Februartagung 2015

Zürich, Schweiz, 11. – 13. Februar 2013



ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



**Universität
Zürich** ^{UZH}

Local Organisation:

PD Dr. Stefan Bauersachs

Prof. Dr. Susanne E. Ulbrich

ETH Zurich, Animal Physiology, Institute of Agricultural Sciences, Department of Environmental Systems Science

Prof. Dr. Heinrich Bollwein

University of Zurich, Clinic of Reproductive Medicine, Vetsuisse-Faculty

Trärgesellschaften der Tagung:

Deutsche Veterinärmedizinische Gesellschaft e.V. (DVG), Fachgruppe Fortpflanzung und ihre Störungen

Deutsche Gesellschaft für Reproduktionsmedizin e.V. (DGRM)

Grusswort zur Februartagung 2015

Liebe Kolleginnen und Kollegen,

Wir freuen uns sehr, Sie zur **48. Jahrestagung Physiologie und Pathologie der Fortpflanzung und gleichzeitig 40. Veterinär-Humanmedizinische Gemeinschaftstagung** in Zürich begrüßen zu dürfen.

Die Tierphysiologie der ETH Zürich und die Klinik für Reproduktionsmedizin der Universität Zürich richten gemeinsam die diesjährige **Februartagung 2015** aus. Wir möchten gern dazu beitragen, die naturwissenschaftlich orientierte Grundlagenforschung und die klinisch orientierte Reproduktionsmedizin näher zusammenzurücken und die Zusammenarbeit zwischen beiden Gebieten weiter zu stärken.

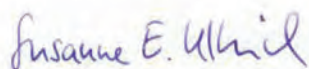
Ein besonderes Anliegen ist uns die aktive Teilnahme von jungen Nachwuchswissenschaftlerinnen und -wissenschaftlern. In Anerkennung ihrer Tätigkeit haben wir ihnen möglichst viel Präsentationsmöglichkeiten eingeräumt.

Als Mittelpunkt des wissenschaftlichen Austausches haben wir die Themen Metabolische Programmierung sowie Einflüsse der Inflammation auf die Fertilität gewählt. Wir konnten als Hauptreferenten mit Claire Wathes, Anne Navarrete-Santos, Klaus Steger und Mats Troedsson herausragende Fachleute gewinnen, die human- und veterinärmedizinisch herausfordernde wissenschaftliche Aspekte bei verschiedenen Spezies präsentieren werden.

Die Februartagung ist seit Jahrzehnten die wichtigste Tagung zum Thema Physiologie und Pathologie der männlichen und weiblichen Fortpflanzung im deutschsprachigen Raum. Ein Charakterzug des Gastgeberlandes Schweiz ist sein eleganter Umgang mit vier verschiedenen Landessprachen (deutsch, französisch, italienisch, rätoromanisch) neben der Wissenschaftssprache englisch. Im Wissen um die sprachliche Vielseitigkeit der Teilnehmerinnen und Teilnehmer bitten wir in diesem Jahr um englischsprachige Vorträge. Dies soll nicht von deutsch- und anderssprachigen Diskussionen abhalten, sondern allen erlauben, Einsicht in die neuesten Forschungsergebnisse zu erhalten.

Der Erfolg der Tagung hängt ganz maßgeblich von den Teilnehmerinnen und Teilnehmer ab, die durch Ihr Interesse und Engagement am wissenschaftlichen Diskurs teilnehmen. Wir freuen uns daher auf rege Diskussionen mit Ihnen, heißen Sie ganz herzlich in Zürich willkommen und wünschen Ihnen eine vielseitig bereichernde Tagung.

Mit freundlichen Grüßen,



Prof. Dr. Susanne E. Ulbrich



Prof. Dr. Heinrich Bollwein

Welcome to the February Conference 2015

Dear colleagues,

It is our great pleasure to welcome you in Zurich to the **48th Annual Conference Physiology and Pathology of Reproduction and simultaneously 40th Joint Congress of Veterinary and Human Medicine**.

The Animal Physiology of ETH Zurich and the Clinic of Reproductive Medicine of the University of Zurich are jointly hosting the **February Conference 2015**. We specifically aim at closing ranks between basic research in natural sciences and the clinically oriented reproductive medicine as well as to further strengthen the collaboration between the two areas.

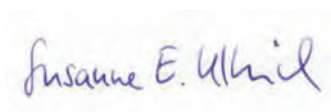
The active participation of young scientists is of particular concern to us. In recognition of their excellent work, we have granted them as much presentation options as possible.

We have chosen the topics of metabolic programming and effects of inflammation on fertility as a focus of our scientific exchange. With Claire Wathes, Anne Navarrete-Santos, Klaus Steger and Mats Troedsson, we were able to win outstanding experts as keynote speakers. They will present scientifically challenging aspects of human and veterinary medicine in different species.

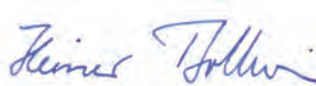
For decades, the February conference has been the most important german-speaking conference on physiology and pathology of the male and female reproduction. One important characteristic of this year's host country Switzerland is the elegant handling of four different national languages (German, French, Italian, Rhaeto-Romanic) in addition to English as scientific language. Knowing the linguistic diversity of the participants, we decided to ask the speakers for English lectures. This is not meant to discourage discussions in German and other languages. It simply allows everyone to gain insight into the latest research.

The success of the conference also crucially depends on its auditorium. You are therefore kindly invited to actively participate in the scientific discussions with the speakers and the colleague researchers. We friendly welcome you in Zurich, wish you a nice stay and hope you enjoy a successful conference.

Kind regards,



Prof. Dr. Susanne E. Ulbrich



Prof. Dr. Heinrich Bollwein

Congress Sponsors







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Conference Program

Wednesday, February 11th 2015

15:30 – 20.30	Registration open	ETH LFW, Universitätstr. 2, Lichthof/Atrium
18:00 – 20.30	Welcome Reception (Swiss Apéro)	ETH LFW, Universitätstr. 2, Lichthof/Atrium
16:00 – 18:00	Workshop "10 Jahre ReproTier" - Kompetenzverbund ReproTier: Projekte und Perspektiven	ETH LFW, Universitätstr. 2, Room B1
19:00 – 20:00	Mitgliederversammlung DVG, Fachgruppe „Fortpflanzungen und ihre Störungen“	ETH LFW, Universitätstr. 2, Room D12

17:00 – 20.30	Poster setup	ETH Main Building F Foyer Gallery + Foyer EO-Süd
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Thursday, February 12th 2015

07:30 – 19:00	Registration open	ETH Main Building Foyer F 30
08:00	Conference Opening	ETH Main Building Audimax F 30

08:30 – 10:15 Session 1: Endocrinology & Reproduction

Chairs: Marion Piechotta, TiHo Hannover, Germany; Jan-Dirk Haeger, TiHo Hannover, Germany

ETH Main Building
Audimax F30

K1 The impact of metabolic stress on immunity and fertility in dairy cows

D. Claire Wathes, T Swangchan-Uthai, CF Oguejiofor and Z Cheng

Department of Production and Population Health, Royal Veterinary College, North Mymms, Hatfield, United Kingdom

SP1 Genomic evaluation of female fertility in Brown Swiss dairy cattle

Christine Baes^{1,2}, Beat Bapst², Christine Flury¹, Heidi Signer-Hasler¹, Dorian Garrick³, Christian Stricker⁴, Fritz Schmitz-Hsu⁵, Birgit Gredler²

¹*Bern University of Applied Sciences, Zollikofen, Switzerland*; ²*Qualitas AG, Zug Switzerland*; ³*Iowa State University, Ames, IA, USA*; ⁴*agn Genetics, Davos, Switzerland*; ⁵*Swissgenetics, Zollikofen, Switzerland*

SP2 Effects of treatments with GnRH and/or PGF2 α during early puerperium on fertility in dairy cows

Judith Krohn¹, S Haß¹, P Georgiev², Axel Wehrend¹

¹*Klinikum Veterinärmedizin, Klinik für Geburtshilfe, Gynäkologie und Andrologie der Groß- und Kleintiere, Justus-Liebig-Universität Gießen, Germany*; ²*Faculty of Veterinary Medicine, Thrakia University, Stara Zagora, Bulgaria*

SP3 Establishment of pregnancy is associated with TSH-levels on the day of ovulation

Marie Meyerholz¹, Kirsten Mense¹, Michael Lietzau¹, Ana Kassens², Matthias Linden³, Mariam Raliou⁴, Christoph Richard⁴, Olivier Sandra⁴, Martina Hoedemaker¹, Marion Piechotta¹

¹*Clinic for Cattle and* ²*Reproduction Unit, University of Veterinary Medicine Hannover, Germany*; ³*Leibniz University, Faculty of Mathematics and Physics, Hannover, Germany*; ⁴*INRA, UMR1198, Biologie du Développement et Reproduction, Jouy-en-Josas, France*

SP4 Effect of time of eCG administration on ovarian dynamics, times to estrus and ovulation and serum progesterone level of CIDR-hCG treated dromedary camels

Ahmed Ali^{1,2}, Fahd Al-Sobayil¹

¹*Department of Veterinary Medicine, College of Agriculture and Veterinary Medicine, Qassim University, Buraydah, Qassim, Saudi Arabia*; ²*Department of Theriogenology, Faculty of Veterinary Medicine, Assiut University, Assiut, Egypt*

SP5 Seminal plasma influences the porcine endometrial cellular composition and expression of cytokines towards immunosuppression

Manon Scheld¹, Nina Hambruch¹, Dagmar Waberski², Christiane Pfarrer¹

¹*Department of Anatomy and* ²*Unit for Reproductive Medicine of Clinics, University of Veterinary Medicine Hannover, Hannover, Germany*

SP6 Rupture of the decidua basalis and release of embryos under resorption in the uterine lumen: a necessary step to escape the immune privileged implantation site?

Luis Flores-Landaverde, Anja Kühn, Barbara Drews

Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany

10:15 – 11:30**Poster Session I – Odd numbers
and Coffee**ETH Main Building
F Foyer Gallery, EO-Süd

Please note: poster #6 and #74 will be presented in Poster Session I

11:30 – 12:30**DGRM prize session**ETH Main Building
Audimax F 30Chairs: Tina Buchholz, Gyn-Gen-Lehel, Munich, Germany;
Christine Wrenzycki, Justus-Liebig-University Giessen,
Germany**SP9** Impact of centrifugation stress on boar sperm kinetics and energy metabolismHeiko Henning^{1,2}, Doanh B. Huy¹, Sebastian Keil¹, Quynh T. Nguyen¹, Ulrike Wallner¹, Sabine Kastens¹,
Dagmar Waberski¹¹*Unit for Reproductive Medicine of Clinics / Clinic for Pigs and Small Ruminants, University of Veterinary Medicine Hannover, Germany;* ²*Department of Equine Sciences, Faculty of Veterinary Medicine, Utrecht University, The Netherlands***SP8** Characterizing the differentiation process of oviductal epithelial cells in air-liquid interface (ALI) cultureShuai Chen^{1,2}, Ralf Einspanier³, Jennifer Schön¹¹*Leibniz Institute for Farm Animal Biology (FBN), Dummerstorf, Germany;* ²*College of Life Science, Hebei University, Beichen, Tianjin, China;* ³*Institute of Veterinary Biochemistry, Freie Universität Berlin, Germany***SP7** Effects of melatonin on steroid hormone secretion and nuclear maturation kinetics of porcine cumulus oocytes complexes in vitroDagmar Töpfer¹, Joachim Weitzel², Burkhard Meinecke¹¹*Department of Reproductive Biology, University of Veterinary Medicine Hannover, Germany;* ²*Unit of Reproductive Biology, Leibniz Institute for Farm Animal Biology (FBN), Dummerstorf, Germany***12:30 – 14:00****Lunch Break**Mensa University of Zurich
Künstlergasse 10

14:00 – 15:30 Session 2: Metabolic Programming & Female Reproduction

Chairs: Katrin Giller, ETH Zurich, Switzerland;
Martin Kaske, University of Zurich, Switzerland

ETH Main Building
Audimax F30

K2 Mechanisms of metabolic and hormonal adaptation in preimplantation embryos - or how the embryo survives a diabetic pregnancy

Anne Navarrete Santos, Jacqueline Gürke, Katarzyna Grybel, Julia Knellingen, Mareike Pendzialek, Maria Schindler, René Thieme, Bernd Fischer

Department of Anatomy and Cell Biology, Martin Luther University Halle-Wittenberg Faculty of Medicine, Halle (Saale), Germany

SP10 Prenatal programming of glucose homeostasis in the common marmoset *Callithrix jacchus*

Alexandra Holzner, Almuth Einspanier, Susanne Reitemeier

Veterinär-Physiologisch-Chemisches Institut, Universität Leipzig, Germany

SP11 Energy intake during early postnatal life has an effect on milk production of Holstein calves

Steffi Wiedemann¹, Rebecca Kühl¹, Patriccia Maccari², Hans-Jürgen Kunz³, Martin Kaske⁴

¹*Department of Animal Health, University of Kiel, Germany;* ²*University of Veterinary Medicine Hannover, Germany;* ³*Chamber of Agriculture of Schleswig-Holstein, Germany;* ⁴*Department for Farm Animals, University of Zurich, Switzerland*

SP12 Circulating miRNAs in the maternal serum during early pregnancy in the pig

Zaneta P. Reliszko¹, Zdzislaw Gajewski², Monika M. Kaczmarek^{1,2}

¹*Laboratory of Molecular Biology, Institute of Animal Reproduction and Food Research Polish Academy of Sciences, Olsztyn, Poland;* ²*Department for Large Animal Diseases, Faculty of Veterinary Medicine, University of Life Sciences, Warsaw, Poland*

SP13 Messenger RNA expression and protein localization of membrane progesterin receptors α , β and γ in the bovine endometrium and myometrium during the estrous cycle

Magdalena K. Kowalik, Robert Rekawiecki, Jan Kotwica

Institute of Animal Reproduction and Food Research, Polish Academy of Sciences, Olsztyn, Poland

SP14 Classical Major Histocompatibility Complex class I expression is upregulated in equine placenta tissues during pregnancy and downregulated during parturition

A Rapacz-Leonard¹, M Dąbrowska¹, K Łosiewicz², M Chmielewska-Krzysińska³, T Janowski¹, A Raś¹

¹*Department of Animal Reproduction with Clinic,* ²*Department of Animal Anatomy and* ³*Department of Pathophysiology, Forensic Veterinary Medicine and Administration; Faculty of Veterinary Medicine, UWM, Olsztyn, Poland*

15:30 – 16:00

Coffee Break

ETH Main Building
F Foyer Uhrensaal

16:00 – 17:00

PhD Student Competition

Chairs: Johannes Lüttgenau, University of Zurich,
Switzerland; Holm Zerbe, LMU Munich, GermanyETH Main Building
Audimax F 30

SP15 The mystery of prostaglandins: synthesis and reception of PGE₂ and PGF_{2α} in *corpora lutea* of lynxes
Lina Zschockelt¹, Olga Amelkina¹, Mariusz P. Kowalewski², Alois Boos², Katarina Jewgenow¹, Beate C. Braun¹

¹Leibniz Institute for Zoo and Wildlife Research, Reproduction Biology, Germany; ²Institute of Veterinary Anatomy, Vetsuisse Faculty, University of Zurich, Switzerland

SP16 Endometrial gene expression of pro-inflammatory mediators in repeat breeder cows

Karen Wagener¹, Harald Pothmann¹, Regina Erber², Isabella Prunner¹, Sarah Peter³, Christine Aurich², Marc Drillich¹, Christoph Gabler³

¹Clinical Unit for Herd Health Management in Ruminants, Vetmeduni Vienna, Austria; ²Centre for Artificial Insemination and Embryo Transfer, Vetmeduni Vienna, Austria; ³Institute of Veterinary Biochemistry, Freie Universität Berlin, Germany

SP17 In-vitro model of canine decidualization

Eva Kautz¹, Iris M. Reichler², Paula C. Papa³, Alois Boos¹, Selim Aslan⁴, Serhan S. Ay⁵, Murat Findik⁵, Mariusz P. Kowalewski¹

¹Institute of Veterinary Anatomy and ²Section of Small Animal Reproduction, Clinic of Reproductive Medicine, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland; ³Sector of Anatomy, Department of Surgery, Faculty of Veterinary Medicine and Animal Sciences, University of Sao Paulo, Sao Paulo, Brazil; ⁴Clinic for Obstetrics and Gynecology, Faculty of Veterinary Medicine, University of Ankara, Ankara, Turkey; ⁵Department of Obstetrics and Gynecology, Faculty of Veterinary Medicine, University of Ondokuz Mayıs, Samsun, Turkey

SP18 Phytohemagglutinin (PHA) influences blastocyst rate and contribution of donor cells to the inner cell mass of asynchronous bovine embryo aggregation chimeras

Kilian Simmet¹, Myriam Reichenbach², Simone Jung³, Ruedi Fries³, Thomas Grupp², Christoph Gschoderer², Jakob Scherzer², Horst-Dieter Reichenbach⁴, Eckhard Wolf¹

¹Chair for Molecular Animal Breeding and Biotechnology, Ludwig-Maximilians-Universität München, Oberschleissheim, Germany; ²Bayern-Genetik GmbH, Grub, Germany; ³Chair for Animal Breeding, Technische Universität München, Freising, Germany; ⁴Bavarian State Research Center for Agriculture, Institute of Animal Breeding, Grub, Germany

17:00 – 18:30	Förderverein Biotechnologieforschung e. V. (FBF) (Association for Biotechnology Research) Symposium Chair: Inga Schiefler, Association for Biotechnology Research (FBF), Germany	ETH Main Building Audimax F 30
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SP19 The effect of dimethylsulphoxide on bovine embryonic development in vitro

Judith Stöhr, Hanna Stinshoff, Christine Wrenzycki

Justus-Liebig University, Clinic for Veterinary Obstetrics, Gynecology and Andrology, Giessen, Germany

SP20 Plasma Anti-Muellerian-Hormone (AMH) concentrations as a Predictive Parameter for Ovum-Pick-Up and Embryo Production Outcomes of Holstein-Friesian Heifers

Andreas Vernunft¹, Mona Schwerhoff², Torsten Viergutz¹, Mike Diederich², Andreas Kuwer²

¹*Institute of Reproductive Biology; Leibniz Institute for Farm Animal Biology, 18196 Dummerstorf, Germany.*

²*MASTERRIND GmbH, 27283 Verden, Germany*

SP21 Investigations of mammary blood flow during the puerperium in dairy cows in relation to milk yield and pregnancy outcome

Heidemaria Berger, Michael Lietzau, Kathrin Herzog

Clinic for Cattle, University of Veterinary Medicine Hannover, Germany

SP22 Effects of different semen handling procedures during storage on boar sperm quality

Martin Schulze, Karin Rüdiger, Markus Jung

Institute for the Reproduction of Farm Animals Schönnow, Bernau, Germany

SP23 Revision of current protocols for boar semen processing: Retarded cooling of diluted semen enhances sperm quality

Ulrike Wallner¹, Sabine Kastens¹, Anja Riesenbeck², Heiko Henning^{1,3}, Dagmar Waberski¹

¹*Unit for Reproductive Medicine of Clinics, University of Veterinary Medicine Hannover, Hannover, Germany.*

²*Genossenschaft zur Förderung der Schweinehaltung e.G., Ascheberg, Germany,* ³*Dep. of Equine Sciences, Faculty of Veterinary Medicine, Utrecht University, The Netherlands*

19:00 – 24:00	Conference Dinner	ETH LFW, Universitätstr. 2, Lichthof/Atrium
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Friday 13.02.2015

07:30 – 12:30	Registration open	ETH Main Building Foyer F 30
07:30 – 08:30	Coffee & Tea	ETH Main Building Foyer Uhrensaal

08:30 – 10:15	Session 3: Inflammation & Fertility Chairs: Jasmin Walter, University of Zurich, Switzerland; Stefan Bauersachs, ETH Zurich, Switzerland	ETH Main Building Audimax F 30
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K3 Breeding induced endometritis: Physiology or Pathology?

Mats H.T. Troedsson

Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY, USA

SP24 Subclinical Endometritis in cows – examinations on pathogenesis and diagnosis

Maren Hillmer, Julian Bartels, Frank Weber, Holm Zerbe

Clinic for Ruminants with Ambulatory and Herd Health Services, Ludwig-Maximilians-Universität München, Munich, Germany

SP25 Effect of time of first ovulation after parturition on endometrial inflammation in dairy cows

Maike Heppelmann¹, A. Brömming¹, Susanne Ulbrich², M. Weinert¹, Marion Piechotta¹, Christina Wrenzycki³, S Merbach⁴, Heinz-Adolf Schoon⁵, Martina Hoedemaker¹, Heinrich Bollwein⁶

¹*Clinic for Cattle, University of Veterinary Medicine Hannover, Germany;* ²*ETH Zurich, Animal Physiology, Institute of Agricultural Sciences, Zurich, Switzerland;* ³*Clinic for Obstetrics, Gynecology and Andrology of Large and Small Animals, Justus-Liebig University Giessen, Germany;* ⁴*Chemical and Veterinary Investigation Office Westphalia, Pathology and Bacteriology, Germany;* ⁵*Institute of Pathology, Faculty of Veterinary Medicine, University of Leipzig, Germany;* ⁶*Clinic of Reproductive Medicine, Vetsuisse Faculty, University of Zurich, Switzerland*

SP26 High culling rate and disappointing reproductive performance in female dromedary affected with vaginal adhesions

Derar R Derar^{1,2}, Ahmed Ali^{1,2}, Fahd A Al-Sobayil¹, Abd-Alla M. Al-Hawas¹

¹*Department of Veterinary Medicine, College of Agriculture and Veterinary Medicine, Qassim, Saudi Arabia;* ²*Department of Theriogenology, Faculty of Veterinary Medicine, Assiut University, Egypt*

SP27 Dehydroepiandrosteron (DHEA) was higher in cows with metritis – potential anti-inflammatory signal from the adrenal cortex

Neele H. Gundlach, Yasmin Gundelach, Maren Feldmann, Felix Graubner, Martina Hoedemaker, Marion Piechotta

Clinic for Cattle, Endocrinology Laboratory, University of Veterinary Medicine Hannover, Foundation, Hannover, Germany

SP28 Histomorphological and immunohistochemical investigation of common uterine diseases in the bitch

Sarah Benneter¹, Kristin Müller¹, Kathrin Jäger¹, Anne-Rose Günzel-Apel², Bettina Lübke³, Rafael Nickel³, Heinz-Adolf Schoon¹

¹Institut für Veterinär-Pathologie, Leipzig, Germany; ²Reproduktionsmedizinische Einheit der Kliniken, Hannover, Germany; ³Tierärztliche Klinik für Kleintiere, Norderstedt, Germany

SP29 Concentration of acute phase proteins serum amyloid A and haptoglobin in subfertile and fertile mares

Monika Sikora¹, Roland Kozdrowski¹, Justyna Buczkowska¹, Tadeusz Stefaniak¹, Gudmar Aubertsson²

¹Wrocław University of Environmental and Life Sciences, Poland; ²Dýralæknir Sandhólaferja, Hella, Iceland

10:15 – 11:45

**Poster Session II – Even numbers
and Coffee**

ETH Main Building
F Foyer Gallery, EO-Süd

11:45 – 12:30 Postdoc Competition

Chairs: Anne Navarrete Santos, Martin Luther University Halle-Wittenberg, Germany; Monika Kaczmarek, Warsaw University of Life Sciences, Poland

ETH Main Building
Audimax F 30

SP30 Polarisation changes in caruncular epithelium (CE) and uterine glands (UG) during bovine implantation and in 3-dimensional endometrial cultures (spheroids) in vitro

Jan-Dirk Haeger¹, Nina Hambruch¹, Vibecke Dantzer², Michael Hoelker³, Karl Schellander³, Christiane Pfarrer¹

¹Department of Anatomy, University of Veterinary Medicine Hannover, Germany, ²Section of Anatomy & Biochemistry, Department of Veterinary Clinical and Animal Sciences, Faculty of Health and Medicine, Copenhagen University, Frederiksberg C, Denmark, ³Institute of Animal Science, Animal Breeding and Husbandry Group, University of Bonn, Bonn, Germany

SP31 Reduced progesterone synthesis of the corpus luteum after lipopolysaccharide challenge in the isolated perfused bovine ovary – underlying mechanisms

Johannes Lüttgenau¹, Benjamin Möller¹, David Kradolfer², Susanne E. Ulbrich², Heinrich Bollwein¹

¹Clinic of Reproductive Medicine, Vetsuisse Faculty, University of Zurich, Zurich, Switzerland; ²ETH Zurich, Animal Physiology, Institute of Agricultural Sciences, Zurich, Switzerland

SP32 Identification of GFP expressing cells in Oct4-EGFP transgenic pig testis

Monika Nowak-Imialek^{1,2}, Nico Lachmann², Doris Herrmann¹, Franziska Jacob¹, Heiner Niemann^{1,2}

¹Institute of Farm Animal Genetics, Friedrich-Loeffler-Institut, Mariensee, Germany; ²REBIRTH Research Group Reprogramming, Hannover Medical School, Hannover, Germany

12:30 – 14:00

Lunch Break

Mensa University of Zurich
Künstlergasse 10

14:00 – 16:00 Session 4: Gametes & Embryos

ETH Main Building

Chairs: Jennifer Schön, Leibniz Institute for Farm Animal Biology, Germany; Heiko Henning, Utrecht University, The Netherlands

Audimax F 30

K4 Sperm epigenome: paternal contribution to the embryo

Klaus Steger

*Sektion Molekulare Andrologie der Klinik für Urologie, Kinderurologie und Andrologie, Biomedizinisches Forschungszentrum der Justus-Liebig-Universität Gießen, Germany***SP33** Secretome analysis of human testicular peritubular cells (HTPCs) indicates an impact on the spermatogonial stem cell nicheFlorian Flenkenthaler¹, Stefanie Windschüttl², Thomas Fröhlich¹, J. Ullrich Schwarzer³, Artur Mayerhofer², Georg J. Arnold¹*¹Laboratory for Functional Genome Analysis, Gene Center and ²Anatomy III - Cell Biology, Faculty of Medicine, Ludwig-Maximilians-Universität München, Munich, Germany; ³Andrologie-Centrum-München, Munich, Germany***SP34** Effect of different PGF2 α products on motility parameters of bovine spermSandra Goericke-Pesch^{1,2}, Jörg Willig¹, Axel Wehrend¹*¹Klinikum Veterinärmedizin, Clinic for Obstetrics, Gynecology and Andrology of Large and Small Animals, Justus-Liebig-Universität, Giessen, Germany; ²Department of Large Animal Sciences, Section of Veterinary Reproduction, Faculty of Health and Medical Sciences, University of Copenhagen, Frederiksberg C, Denmark***SP35** Seasonal variation of DNA fragmentation in equine spermLucyna Wach-Gygax¹, Eleni Malama¹, Heinrich Bollwein¹, Dominic Burger², Fredi Janett¹*¹Clinic of Reproductive Medicine, Vetsuisse-Faculty, University of Zurich, Switzerland; ²Institut Suisse de Médecine Equine, University Bern and Agroscope, Avenches, Switzerland***SP36** Temporal pattern of steroid hormone concentrations in medium used for IVM of bovine oocytes

Carina Blaschka, Hanna Stinshoff, Friederike Poppicht, Christine Wrenzycki

*Clinic for Veterinary Obstetrics, Gynaecology and Andrology, Justus-Liebig-University Giessen, Germany***SP37** Ovarian structures influence cumulus-oocyte-complex (COC) yield from bovine and equine excised ovaries

Jasmin Walter, Seraina Jäger, Maruschka Blaser and Ulrich Bleul

*Clinic of Reproductive Medicine, Vetsuisse Faculty, University of Zurich, Switzerland***SP38** Cyclic AMP modulators regulate epigenetic marks in preimplantation embryos from prepubertal and adult donorsSandra Milena Bernal Ulloa^{1,3}, Julia Heinzmann¹, Doris Herrmann¹, Ulrich Baulain¹, Klaus-Gerd Hadelers¹, Patrick Aldag¹, Andrea Lucas-Hahn¹, Sylke Winkler², Dorit Pache², Heiner Niemann¹*¹Institute of Farm Animal Genetics, Biotechnology, Friedrich-Loeffler-Institut (FLI), Mariensee, Germany;**²Max Planck Institute of Molecular Cell Biology and Genetics, DNA Sequencing Facility, Dresden, Germany;**³Facultad de Ciencias Agropecuarias, Universidad de Ciencias Aplicadas y Ambientales, Bogotá, Colombia*

SP39 Influence of nanoparticles on mammalian reproduction

Daniela Tiedemann¹, Ulrike Taylor¹, Christoph Rehbock², Jurij Jakobi², Sabine Klein¹, Wilfried A. Kues¹,
Stephan Barcikowski², Detlef Rath¹

¹*Institute of Farm Animal Genetics, Friedrich-Loeffler-Institut, Mariensee, Germany;* ²*Technical Chemistry I, University of Duisburg-Essen, Essen, Germany*

16:00

**PhD Students Competition, Postdoc
Competition, and poster prizes;
Closing and Farewell Coffee**

ETH Main Building
Audimax F 30
F Foyer Uhrensaal

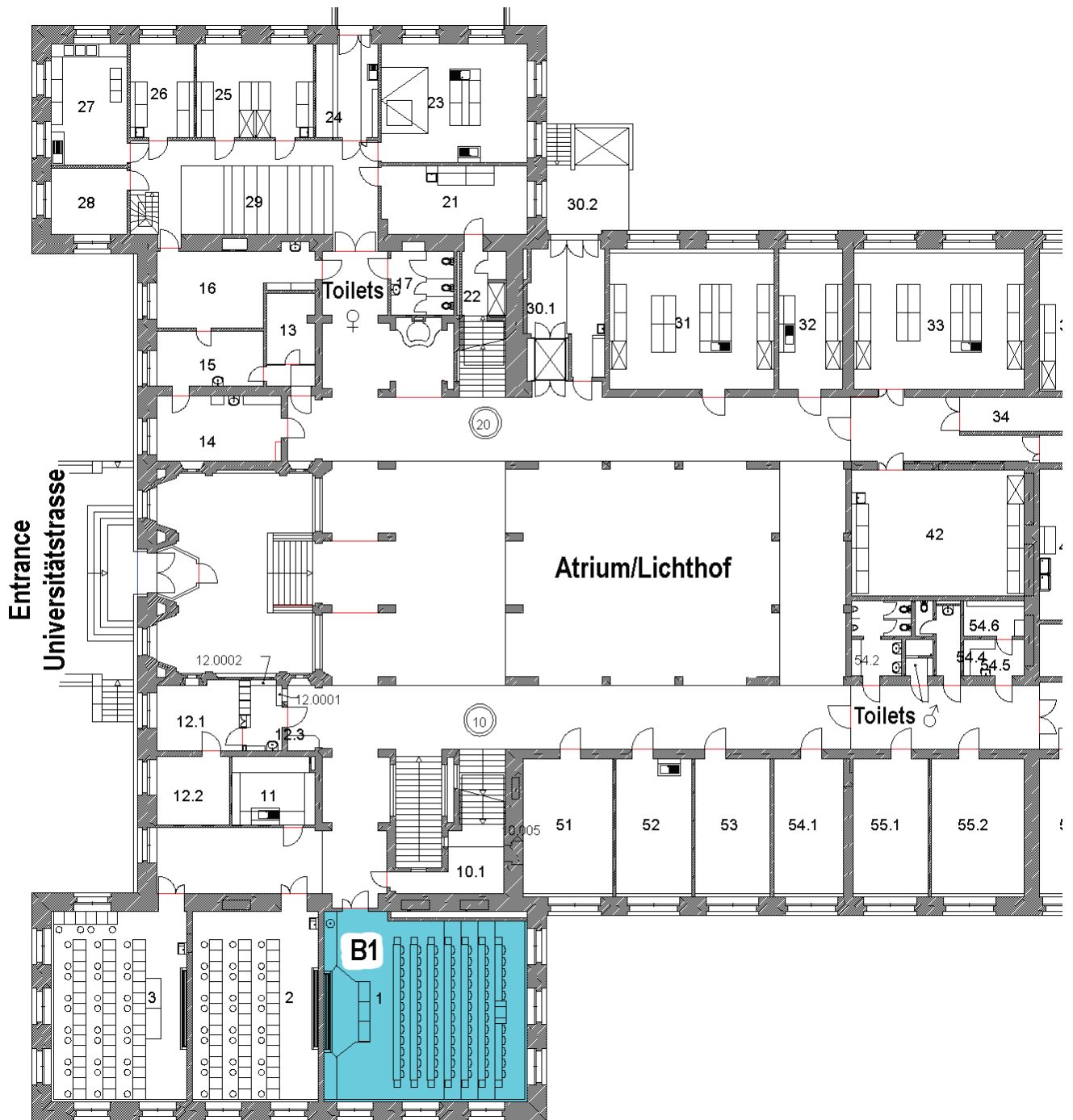
Link to Conference Proceedings (Supplement in Reproduction in Domestic Animals):

<http://onlinelibrary.wiley.com/doi/10.1111/rda.2015.50.issue-S1/issuetoc>

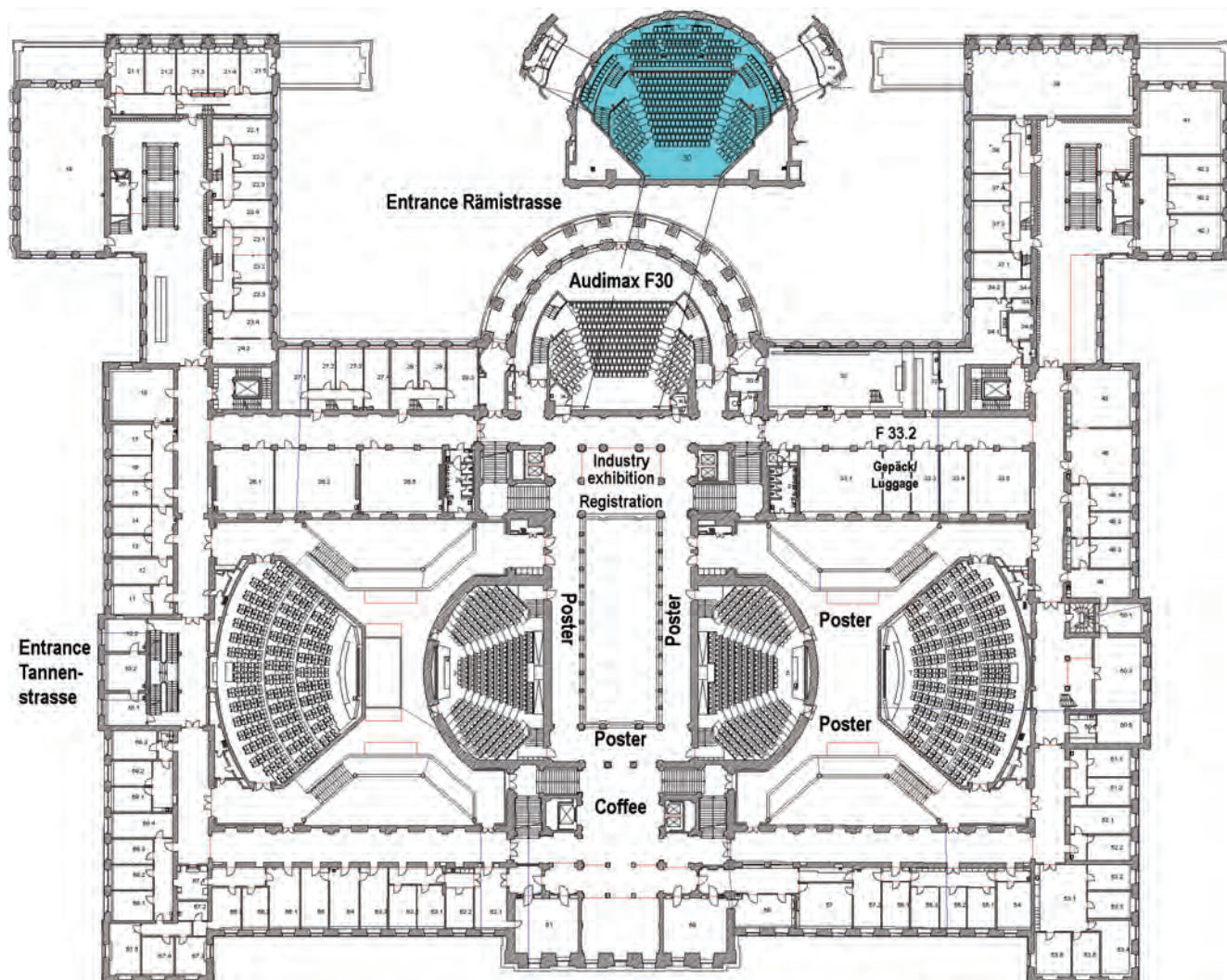
Wednesday 11.02.2015						Thursday 12.02.2015	
Time		Place	Time		Place	Time	
						07:30	Registration open
						08:00	Conference Opening
						08:30	Session 1: Endocrinology & Reproduction Invited: Claire Wathes
						10:15	Poster session I and Coffee
						11:30	DGRM prize session
						12:30	Lunch
						14:00	Session 2: Metabolic Programming & Female Reproduction Invited: Anne Navarrete Santos
			15:00			15:30	Coffee break
			-			16:00	PhD Students competition
16:00			20:30			17:00	FBF Symposium
-	Workshop "10 Jahre ReproTier" - Kompetenzverbund ReproTier: Projekte und Perspektiven	ETH LFW, Universitätstr. 2, LFW B1		Satellite Symposium "Reproduction in the horse"	University of Zurich, Tierspital, VetSuisse Faculty, Klinik Demonstrationshösaal	-	
18:00						18:30	
19:00	Mitgliederversammlung der DVG-Fachgruppe „Fortpflanzungen und ihre Störungen“	ETH LFW D12				19:00	
20:00						-	
18:00	Welcome Reception (Apéro) and Registration	ETH LFW Lichthof/Atrium Universitätstr. 2				00:00	Conference dinner
-							
20:30							

LFW building LFW
 HG main building

ETH Building LFW Floor B



ETH Main Building HG Floor F



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