

Wissenschaftliche Vorträge / Scientific presentations

Erstautor/ First author	Titel / Title	Seite/ Page
Session 1 – Genetics, genomics & biochemistry		
Schöneberg, T., Leipzig, GER	The evolutionary dynamics of G protein-coupled receptors – Implications for basic and clinical research	1
Kreißelmeier, M., Dummerstorf/ Giessen, GER	Selective Inhibition of mTorC1 and C2 During Meiotic Maturation of Bovine Oocytes Dieser Vortrag entfällt / This lecture is cancelled!	2
Kordowitzky, P., Neustadt, GER	Activation of SIRT1 by resveratrol influences developmental competence of bovine oocytes in relation to maternal age	3
Latter, S., Zurich, CH	Transcriptome analysis of canine corpus luteum (CL) during luteal regression, and normal and induced luteolysis	4
Lingemann, B., Zurich, CH	Mechanisms of luteolysis induced by repeated intrauterine applications of lipopolysaccharide in dairy heifers	5
Scaravaggi, I., Zurich, CH	Isolation of RNA from laser capture microdissection samples from equine endometrial biopsies	6
Blaschka, C., Giessen, GER	Immunolocalization of steroid sulfatase (STS) and the estrogen-specific sulfotransferase (SULT1E1) in bovine follicles	7
DGRM prize session		
Schäfer, S., Berlin, GER	Mathematical Modelling of Follicular Maturation in Cows and Women	11
Storni, E., Zurich, CH	Inhibition of lipopolysaccharide-induced suppression of corpus luteum function in isolated perfused bovine ovaries	13
Hempfling, A. L., Giessen, GER Melbourne, AUS	HENMT1 – More than a methyltransferase?	14
Session 2 – Gametes & periconceptional programming		
Niemann, H., Neustadt, GER	Gene editing and beyond: The future of genetically engineered livestock	19
Saymé, N., Hannover, GER	Hyaluronic acid-binding ability for the selection of human spermatozoa	20
Gürler, H., Hannover, GER	The interspecific hemizona assay as diagnostic-test for frozen/thawed bovine spermatozoa	22
Malama, E., Zurich, CH	Predictability of fertility in Brown Swiss bulls using computer-assisted motility analysis and flow cytometric assays to determine quality of frozen-thawed sperm	23
Grybel, K. J., Halle, GER	Gestational diabetes changes the DNA methylation patterns at OCT4 promoter region in rabbit preimplantation embryos	24

Nguyen, Q. T., Hannover, Göttingen, GER	Revisiting storage temperature for liquid preserved boar semen from the perspective of energy metabolism	26
Drews, B., Berlin, GER Zurich, CH	Spontaneous resorption is triggered by the embryo and not by the mother	27
Symposium FBF / Förderverein Bioökonomieforschung e.V. Association for Bioeconomy Research		
Blad-Stahl, N., Giessen, GER	Liquid preservation of bovine embryos as an alternative to cryopreservation first results	31
Stöhr, J., Giessen, GER	Effect of dimethyl sulfoxide supplementation on bovine <i>in vitro</i> embryo development	32
Luther, A., Hannover, GER	A lower total sperm number in boar semen doses reduces sperm quality irrespective of the seminal plasma content	33
Schulze, M., Bernau, GER	Impact of the dilution sequence and process on boar semen quality and homogeneity of the final extended ejaculate	34
Scheibner, D., Berlin, GER	Distinct lactobacilli did not influence the viability of bovine sperm	35
Herrmann, C., Bernau, GER	Analysis of antibacterial activity and lysozyme concentration in bull semen	36
Session 3 – Estrous cycle, pregnancy & peripartum period		
Janowski, T., Olsztyn, POL	Translating research into practice: Endometritis in dairy cows	39
Treupel, E., Giessen, GER	Correlation between cervical formation and hormone levels in mares	40
Guenther, F., Leipzig, GER	Relaxin expression in the lactating mare	41
Rapacz-Leonard, R., Olsztyn, POL	Should oxytocin be the first choice treatment for heavy draft mares that retained fetal membranes?	43
Poser, C., Leipzig, GER	Investigation into Color Doppler Sonography to study uterine blood flow during the estrous cycle in gilts	45
Session 4 – Biotechnology in reproduction		
Monthoux, C., Zurich, CH	Proteomic profiling of bovine cumulus cells from oocytes successfully matured to MII and oocytes that failed to mature after <i>in vitro</i> maturation	49
Bernal, S. M., Neustadt, GER Bogotá, CO	Pre- <i>in vitro</i> maturation with caffeine increases embryo survival after vitrification	50
Bittner, L., Zurich, CH	Effect of oxidative stress on bovine sperm function and subsequent <i>in vitro</i> embryo development	51
Zumnorde-Mertens, E., Hannover, GER	Isolation of primary endothelial cells from the bovine umbilical vein and the establishment of an <i>in vitro</i> angiogenesis assay	52
Dillenburg, W., Mainz, GER	Assessing the functional activity of the p-glycoprotein (Pgp) transporter as a component of the blood-testis-barrier <i>in vivo</i> : Imaging by small animal positron emission tomography (PET)	53

Dabrowski, M., Warsaw, POL	Survival of mesenchymal stem cells after transplantation into the muscle layer of the cervix in swine	54
Session 5 – Metabolic (im)balance & fertility		
Soede, N. M., Wageningen, NL	Hormones in Animal (Re)production... Still an Option?	59
Giller, K., Zurich, CH	Effects of dietary rumen-protected omega-3-fatty acids on early embryonic development in heifers	60
Sokolowski, D., Warsaw, POL	The influence of long-term selection for high body weight and for high testes weight on male mice fertility	62
Yenuganti, V. R., Dummerstorf, GER	Oleic acid mediated dysfunction of bovine granulosa cells	64
Steinhoff, L., Hannover, GER	Thyroid hormone and TSH concentration in early pregnant pluriparous Holstein Frisian cows	65
Pendzialek, S. M., Halle (Saale), GER	Distinct changes in maternal and embryonic microRNA expression in diabetic rabbits during early pregnancy	66
Deger, L., Munich, GER	Status-Quo analysis of health and fertility status on herd level in Bavarian organic dairy farms (ODF)	68
Session 6 – Inflammation & fertility		
Schüring, A., Münster, GER	Hormones in human reproductive medicine – How can we learn from each other?	71
Kempf, A., Hannover, GER	Comparison of heat detection using the fully automated system Heatime® with visual heat detection	72
Klein, B., Giessen, GER	B cells, IL-6 and testicular cancer – Identification of a new key network?	73
Schöniger, S., Leipzig, GER	Expression of TLR2, TLR4, TLR6, MD2 and NOD1 within the healthy and diseased equine endometrium	75
Zduńczyk, S., Olsztyn, POL	The effect of polyvalent mastitis vaccine on mastitis incidence and fertility performance in dairy cows	76
Ibrahim, M., Berlin, GER	The pro-inflammatory response of bovine endometrial cells depends on the <i>Trueperella pyogenes</i> strain	77
Rode, K., Hannover, GER	Effects of repeated testicular biopsies in adult warmblood stallions and their diagnostic potential	78

Poster / Posters

Nr./ No.	Erstautor/ First author	Titel / Title	Seite/ Page
Genetics, genomics & biochemistry			
1	Çoyan, K., Denizli, TUR	Effects of cystine and butylated hydroxytoluene (BHT) on lipid peroxidation, total glutathione levels and glutathione peroxidase (GPx) activity of post-thawed bovine semen	83
2	Baufeld, A., Dummerstorf, GER	Supplementation of lactate mimics events of luteinization in cultured bovine granulosa cells	85
3	Lanfranchi, B., Zurich, CH	An insight into molecular mechanisms of hypoxia inducible factor 1 alpha (HIF1 α)-mediated expression and function of steroidogenic acute regulatory protein (STAR)	86
4	Heinrich, J., Hannover, GER	Loss of Connexin 43 in Sertoli cells and its effect on the expression of Claudin-3, -5 and -11 and blood-testis barrier integrity in mice	87
5	Buldan, A., Giessen, GER	Non-classical testosterone signaling mediated through ZIP9 receptor stimulates claudin expression and tight junction formation in Sertoli cells	88
6	Papadopoulos, D., Giessen, GER	Dehydroepiandrosterone sulfate stimulates expression of blood-testis-barrier proteins claudin-3 and -5 and tight junction formation via a Gn \square 11-coupled receptor in Sertoli cells	89
7	Danesh Mesgaran, S., Berlin, GER	Number of cell culture passage influences the mRNA expression pattern of several mucins in bovine oviductal epithelial cells <i>in vitro</i>	91
8	Suliman, Y., Dummerstorf, GER	Relationship between fertility and spermatozoal transcriptome characteristics in stallion	92
9	Klymiuk, M. C., Giessen, GER	Metabolization of progesterone, pregnenolone and pregnenolone sulfate by porcine testicular 17 α -hydroxylase-C17/20-lyase (CYP17)	93
10	Klisch, K., Zurich, CH	Centrosome clustering in bovine Binucleate Trophoblast Giant Cells (BNCs)	95
11	Lüttgenau, J., Zurich, CH	Expression of toll-like receptor-2 (TLR2) and -4 (TLR4) in the bovine corpus luteum at selected time points during the luteal phase	96
12	Schuler, G., Giessen, GER	Expression and activities of steroid sulfotransferases in the porcine testis and epididymis	97
13	Derar, D. R., Qassim, KSA, Assiut, EGY	Morphometric and immunohistochemical variations in the camel (<i>Camelus dromedarius</i>) testis in relation to some endocrinological aspects during different seasons of the year	98

81	Yildirim, S., Erzurum, TUR	Immunohistochemical Detection of p53 Tumor Protein, PCNA Proliferating Cell Nuclear Antigen and iNOS Inducible Nitric Oxide Synthase in Canine Transmissible Venereal Tumor	99
Gametes & periconceptional programming			
14	Utsch, R., Leipzig, GER	Does intrauterine stress affect reproductive parameters in consecutive male filial generations of the common marmoset monkey?	100
15	Kastens, S., Hannover, GER	Pharmacological characterization of calcium regulatory structures in boar spermatozoa	101
16	Upmanyu, N., Giessen, GER	Ouabain-induced signaling in spermatogenic cells via the testis-specific $\alpha 4$ isoform of the sodium pump	102
17	Dietze, R., Giessen, GER	Ouabain interactions with the $\alpha 3$ isoform of the sodium pump stimulate signaling cascades and progesterone biosynthesis in MLTC-1 Leydig cells	103
18	Seeling, T., Halle (Saale), GER	Expression of adrenergic receptor transcripts in rabbit reproductive tissues and preimplantation embryos – impact of a maternal insulin-dependent diabetes mellitus	104
19	Henning, H., Utrecht, NL	The relative demand for ATP to reactivate motility of liquid preserved boar spermatozoa increases during semen storage	106
20	Malama, E., Zurich, CH	Seasonal variation in frozen-thawed semen quality collected from Holstein-Friesian bulls under subtropical conditions	107
21	Uhde, K., Utrecht, NL	Cumulus-oocyte-complex secretions during early <i>in vitro</i> maturation influence bovine oocyte developmental competence	108
22	Oldenhof, H., Hannover, GER	Freezing-induced uptake of membrane impermeable molecules by sperm	109
23	Rau, J., Hannover, GER	Induction of fertilization-associated reactions in equine sperm <i>in vitro</i>	110
24	Oczeretko, E., Warsaw, POL	Study on nonlinearity of the signals representing the bioelectrical activity of the uterus in sows	111
25	Saym�, N., Hannover, GER	Progesteron and motility, kinetic parameters and acrosome reaction of native, vitrified and conventionally cryopreserved sperm	113
Estrous cycle, pregnancy & peripartum period			
26	Wirthgen, E., Hannover, GER	Proteolysis of Insulin-like Growth Factor Binding Protein-4 during pregnancy in cattle	115
27	Derar, D. R., Qassim, KSA	Fetal dynamics during the first 75 days of pregnancy and their correlation with the gestational age in Thoroughbred mares	117

28	Treupel, E., Giessen, GER	Use of denaverinhydrochloride in dairy cows and heifers with dystocia	118
29	Rodler, D., Munich, GER	Localization of thrombospondin and vasohibin in the bovine corpus luteum	119
30	Graubner, F., Zurich, CH	Expression and distribution patterns of selected extracellular matrix proteins during the onset and maintenance of pregnancy in the canine uterus	120
31	Petrajtis- Golobów, M., Warsaw, POL	Urine Pregnancy-associated Glycoproteins (PAG) as a specific diagnostic agent of late embryonic mortality in dairy cows	121
32	Dębski, B., Warsaw, POL	Comparison of acute phase proteins in dairy cows during perinatal period and lactation	122
33	Schneebeli, J., Summa- prada, CH	Early emergence of dominant follicle waves is correlated to over-average progesterone secretion in cattle	124
34	Chen, S., Dummerstorf, GER	P4 and E2 control morphology and barrier function of primary porcine oviduct epithelial cells (POECs)	125
35	Pawlinski, B., Warsaw, POL	The correlation between hormonal status (estradiol, progesterone and LH plasma concentration) and oviductal myoelectric activity during the estrous cycle in gilts	127
36	Domańska, D., Warsaw, POL	Evaluation of corpus luteum blood flow by color Doppler ultrasound in the pregnant and not pregnant mares	129
37	Özalp, G., Bursa, TUR	Expression of steroid sulfatase (STS), estrogen sulfotransferase (SULT1E1), 17alpha-hydroxylase (CYP17) and aromatase (CYP19) in porcine placenta	131
38	Elmetwally, M., Mansoura, EGY	Effect of fetal sex and season of parturition on gestation length and postpartum reproductive performance in lactating dairy cows in Egypt	132
39	Stark, R., Leipzig, GER	Using Color Doppler Sonography to study ovarian blood flow during the estrous cycle in gilts	134
40	Kowalik, M. K., Olsztyn, POL	Expression of membrane progesterone receptors in the bovine reproductive tract	135
41	Troll, S., Leipzig / Halle, GER	Studies of reproductive biology in the two-toed sloths (<i>Choloepus didactylus</i>)	136
Biotechnology in reproduction			
42	Reichenbach, M., Grub, GER	Effect of time interval of culture between biopsy and freezing of in vitro produced bovine embryos on their survival rate after thawing	137
43	Henning, H. H. W., Utrecht, NL	Isolating equine oviduct epithelial cells	138
44	Kritzinger, F., Oberschleiß- heim, GER	Assessing the quality of bovine colostrum using a simple precision funnel	139

Metabolic (im)balance & fertility			
45	Frohnmayer, S., Stoffenried, GER	Productivity and lamb losses on commercial sheep farms in Southern Germany	140
46	Eski, F., Adana, TUR	Long-term effects of deslorelin implant on reproductive activity in male rats: With particular focus on the testicular function after removal of the implant	141
47	Aniolek, O., Siedlce, POL	Immunohistochemical analyses of cocaine and amphetamine regulated transcript (CART) in eutopic and ectopic endometrium in mice	142
48	Sendag, S., Van, TUR	Effect of castration on vulvar development in bitches	144
49	Balogh, O., Zurich, CH	A preliminary study on leptin and its receptor in the adult and prepubertal canine testis	145
50	Forman, C., Giessen, GER	The use of deslorelin implants for contraception in guinea pigs	146
51	Suchowski, M., Leipzig, GER	Angiosclerosis and potential consecutive hypoxia in the equine endometrium	147
52	Özalp, R. G., Bursa, TUR	Parturition Induction by Aglepristone on Days 140 and 141 and Subsequent Neonatal Survival in Ewes	148
53	Lüttgenau, J., Zurich, CH	Lipopolysaccharide-induced mastitis alters gene expression of the corpus luteum but does not induce luteolysis in lactating cows	150
54	Hankele, A. K., Zurich, CH	Metabolism of orally administered estradiol in porcine plasma, bile, heart muscle and endometrium	151
55	Domino, M., Warsaw, POL	Pulsed Wave Doppler ultrasound evaluation of testicular blood flow in ram	152
56	Wagener, K., Wien, AT Berlin, GER	Increased mucin 4 and 12 mRNA expression in the endometrium of repeat breeder cows	153
57	Goericke-Pesch, S., Copenhagen, DEN	Effects of aglepristone administration in early estrous on vaginal cytology	154
58	Nestler, R., Leipzig, GER	Analysis of faecal cortisol in the common marmoset (<i>Callithrix jacchus</i>) related to age and general illness	155
59	Vernunft, A., Dummerstorf, GER	Anti-Muellerian-Hormone (AMH) cannot reflect reduced fertility in a beef heifer herd	156
Inflammation & fertility			
60	Refaat, D., Qassim, KSA, Assiut, EGY	Infertility in male dromedary camels: The roles of <i>Chlamydophila abortus</i> , <i>Trypanosoma evansi</i> , <i>Campylobacter fetus</i> , <i>Brucella species</i> and <i>Toxoplasma gondii</i>	157
61	Sendag, S., Van, TUR	Histopathologic findings of the teat canal epithelium in bovine udder with subclinical mastitis	158

62	Krohn, J., Giessen, GER	Dynamic of the detection of neutrophils in the uterine cytology of cows during the first 10 days post partum	159
63	Krohn, J., Giessen, GER	Relevance of the exfoliative uterine cytology in the mare during the early puerperium	160
64	Kabisch, J., Leipzig, GER	The endometrium of old mares – always category III?	161
65	Buska-Pisa- rek, K., Wro- claw, POL	Peripheral pregnancy recognition in splenic t CD4(+) lymphocytes	163
66	Eiberle, J., Munich, GER	Assessment of predisposing factors for wound healing disorders after Caesarian section in cows – preliminary data	164
67	Gizinski, S., Warsaw, POL	Confocal laser scanning microscopy to assess the expression of neutral endopeptidase (CD 10) in feline mammary gland tumors	165
68	Martz, P., Giessen, GER	Histo-pathologic Alterations of Lung Tissue Caused by Hypoxia in Neonates Deceased due to Dystocia	167
69	Hillmer, M., Munich, GER	Subclinical Endometritis in cows – examinations on pathogenesis and diagnosis	168
70	Urhausen, C., Hannover, GER	Partial abortion in a Boxer bitch suffering from endometritis – A case report	169
71	Sikora, M., Wroclaw, POL	Reliability of a single biopsy for diagnosing endometritis in the mare	170

Case reports

72	Macías- Luaces, M., Munich, GER	Surgical treatment of a teat fistula in a Simmental cow	171
73	Cetin, N., Van, TUR	Acute mastitis due to snakebite in the dairy cows	172
74	Ali, A., Qassim, KSA	Copulatory failure in male dromedary camels	173
75	Freick, M., Zettlitz, GER	Sertolizelltumor bei einem neugeborenen Holsteinkalb	174
76	Yildiz, M., Van, TUR	Secondary abdominal pregnancy with fistula abdominalis of the fetus in a ewe	176
77	Yildirim, S., Erzurum, TUR	Congenital Colo-Vesico-Urethral Fistula with Atrezia Coli, Rectal Agenesis and Atrezia Ani Report in Kid	177
78	Hoops, M., Leipzig, GER	A case of a 7-year old Alpaca mare with a vaginal prolapse ante partum	178
79	Urhausen, C., Hannover, GER	Fertility after unilateral ovarectomy in a 2.5 year old Leonberger bitch with Granulosa cell tumor A case report	179
80	Wolf, K., Hannover, GER	A prostatic lymphoma in a 5-year old Poodle-Mongrel: A case report	181