

**Ahrens H, Petersen B, Herrmann D, Lucas-Hahn A, Hassel P, Ziegler M, Kues W, Niemann H:** Generation of transgenic pigs carrying siRNA vector directed against human tissue factor expression. Proc. Berlin Symposium on Xenotransplantation 2013, p 36.

**Ahrens HE, Petersen B, Petkov S, Hauschild-Quintern J, Niemann H:** Production of GAL knockout/hA20 transgenic pigs with improved xenoprotective properties. *Reprod Fertil Dev* 25, 310.

**Becker F, Kanitz W, Nurnberg G, Rath D:** Timed artificial insemination enables high fertilization rates in normal cycling and in superovulated cattle with reduced dosages of unsorted spermatozoa and with sexed spermatozoa. *Reprod Fertil Dev* 25, 159-160.

**Bernal SM, Heinzmann J, Herrmann D, Baulain U, Lucas-Hahn A, Niemann H:** Effects of different in vitro maturation systems on embryo development in bovine prepubertal and adult donors. *Reprod Fertil Dev* 26, 195.

**Bergmann A, Taylor U, Rath D:** Porcine sperm and endometrium interactions – slowly cracking the case. *Reprod Dom Anim* 48 (Suppl. 1), 74.

**Bergmann A, Taylor U, Rath D:** Sperm binding to porcine uterine epithelial cells might be lectin mediated. *Reprod Fertil Dev* 25, 152.

**Chatterjee A, Hofmann N, Shcherbakova A, Pogozhykh O, Müller Th, Niemann H, von Neuhoff N, Glasmacher B:** Investigation of epigenetic changes caused by cryopreservative procedures. Proc. SLBT Annual Conference 2013, p. 60.

**Garrels W, Holler S, Cleve N, Klein S, Ivics Z, Niemann H, Rath D, Kues WA:** Flow cytometric analysis of spermatozoa from reporter transgenic boars derived by precision genetic engineering. *Reprod Fertil Dev* 25, 312.

**Garrels W, Holler S, Ziegler M, Talluri TR, Debowski K, Behr R, Niemann H, Ivics Z, Kues WA:** Production of transgenic mice by cytoplasmic injection of transposon plasmids into zygotes. *Transgenic Res* 22, 223-224.

**Garrels W, Köhler P, Diederich M, Ehling C, Holler S, Kahle E, Niemann H, Ivics Z, Kues WA:** Precision genetic engineering in the pig genome and skin transplantation between members of a syngenic clone cohort carrying different vital reporter transposons. *Transgenic Res* 22, 223.

**Gernert M, Petersen B, Gey L, Handreck A, Löscher W, Niemann H, Backofen-Wehrhahn B:** Grafting of rat and porcine fetal neuronal cells into the subthalamic nucleus in experimental epilepsy. Proc. of the XII<sup>th</sup> Int. Symposium on Neural Transplantation and Restoration 2013, p. 37.

**González-Serrano AF, Ferreira CR, Pirro V, Eberlin LS, Heinzmann J, Lucas-Hahn A, Niemann H, Cooks RG:** Rapid, untargeted lipid determination in individual bovine oocytes and pre-implantation embryos by high-resolution desorption electrospray ionization mass spectrometry. *Reprod Fertil Dev* 25, 262.

**González-Serrano AF, Ferreira CR, Pirro V, Heinzmann J, Hädeler KG, Herrmann D, Aldag P, Meyer U, Piechotta M, Dänike S, Cooks RG, Niemann H:** Transcript expression levels and lipid determination in bovine oocytes after supplementation of rumen-protected conjugated linoleic acids and stearic acid. *Reprod Biol* 13, Suppl. 2, 59.

**Halle I, Tzschentke B, Henning M, Köhler P:** Influence of temperature stimulation during the last 6 days of incubation on hatching results and later performance in Pekin ducks. Proc. of the 19<sup>th</sup> European Symposium on Poultry Nutrition 2013, p. 25.

**Halle I, Tzschentke B, Henning M, Köhler P:** Influence of temperature stimulation during the last 6 days of incubation on hatching results and later performance in Pekin ducks. Proc 6<sup>th</sup> Combined Workshop on Fundamental Physiology and Perinatal Development in Poultry 2013, abstract A14.

**Hauschild-Quintern J, Petersen B, Herrmann D, Lucas-Hahn A, Petkov S, Schwinzer R, Niemann H:** Production of triple transgenic hHO-1/GGTA-1<sup>-/-</sup>/hCD55 transgenic pigs using Sleeping Beauty Transposition and Zinc-Finger Nucleases. *Reprod Fertil Dev* 25, 311.

**Heinzmann J, Mattern F, Aldag P, Lucas-Hahn A, Wrenzycki C, Haaf T, Niemann H:** In vitro ageing of bovine oocytes prior to fertilization influences gene specific methylation and impairs embryonic development. Proc. 29<sup>th</sup> AET-e 2013, p. 148.

**Heinzmann J, Mattern F, Aldag P, Wrenzycki C, Haaf T, Niemann H:** Delayed fertilization of bovine oocytes after IVM affects methylation and impairs embryonic development. *Reprod Biol* 13, Suppl. 2, 15-16.

**Henning M, Ehling C, Tiedemann D, Rath D:** Farm animal genetic resources- a cryo- bank for germ cells of various species. Proc. SLBT Annual Conference 2013, p. 50.

**Hochberger J, Kruse E, Köhler P, Wedi E:** Successful mucosal transplantation from stomach to esophagus for stricture prevention after widespread circular endoscopic submucosal dissection (ESD) for early esophageal squamous cell carcinoma - report of a first case in man with 1½ year transplant survival. *Gastrointest Endosc* 77, AB113.

**Kues WA, Köhler P, Diederich M, Ehling C, Holler S, Kahle E, Niemann H, Ivics Z, Garrels W:** Precision genetic engineering of the pig genome and skin transplantation within a syngenic clone cohort carrying different vital reporter transposons. *Reprod Fertil Dev* 25, 308.

**Kues WA:** Generation of large animal models by in ovo-transposition. Proc. Conf. on Transposition and Genome Engineering 2013, p. 58.

**Liu Y, Lucas-Hahn A, Petersen B, Li R, Hassel P, Ziegler M, Li J, Larsen K, Niemann H, Callesen H:** Developmental competence of cloned porcine embryos produced with different cloning procedures. *Reprod Fertil Dev* 26, 123.

**Mancini A, Mancini R, Borrelli A, Schiattarella A, Sieg B, Gadea J, Rath D:** Effect of a recombinant manganese superoxide dismutase in thawed bovine sperm. *Reprod Dom Anim* 48, Suppl. 1, 82.

**Mancini R, Sieg B, Rath D:** Bull sperm motility and molecular kinetic of Hoechst dye are affected by the buffer system of extenders. *Reprod Dom Anim* 48, Suppl. 1, 82.

**Morovic M, Strejcek F, Ostrup O, Lucas-Hahn A, Petersen B, Niemann H, Hyttel P, Laurincik J:** Expression pattern of DNMT1 and DNMT3a genes during intergeneric somatic cell nuclear transfer embryo development. *Reprod Fertil Dev* 25, 174.

**Nowak-Imialek M, Lachmann N, Herrmann D, Jacob F, Niemann H:** Identification and characterization of Oct4-EGFP expressing cells in transgenic pig testis. *Reprod Fertil Dev* 26, 210.

**Petersen B:** Update on „molecular scissors“ for transgenic farm animal production. *Reprod Fertil Dev* 25, 317-318.

**Petersen B, Petkov SG, Hauschild J, Ahrens H, Lucas-Hahn A, Hassel P, Ziegler M, Hadeler KG, Schwinzer R, Niemann H:** Production of multi-transgenic pigs tailored for xenotransplantation by using zinc-finger nucleases and Sleeping Beauty transposons. Proc. Berlin Symposium on Xenotransplantation 2013, p 25.

**Petkov S:** The quest for pluripotent stem cells in the pig. *Reprod Fertil Dev* 25, 319.

**Petkov SG, Niemann H:** Small molecule inhibitors pd0325901 and chir99021 cause reduced expression of pluripotency genes in putative porcine induced pluripotent stem cells. *Reprod Fertil Dev* 26, 209.

**Petkov S, Nowak-Imialek M, Hyttel P, Niemann H:** Reprogramming of pig somatic cells to pluripotency with sleeping beauty transposon vectors containing the porcine transcription factor sequences. *Reprod Fertil Dev* 25, 300-301.

**Petkov SG, Hyttel P, Niemann H:** Production of porcine induced pluripotent stem cells using Sleeping Beauty transposons with the porcine reprogramming transcription factors. *Proc. 7<sup>th</sup> Int. Meeting of the Stem Cell Network 2013*, p. 144.

**Rath D, Bergmann A, Taylor U:** Lectin affinity and binding properties of porcine epididymal sperm to uterine epithelial cells. *Reprod Dom Anim* 48, Suppl. 1, 86.

**Rehbock C, Merk V, Gamrad L, Taylor U, Kues W, Rath D, Barcikowski S:** Additive-free gold nanoparticles as toxicity reference materials in reproduction biology. *Proc. of the Conference SPIE Photonics West 2013*, abstract B0501.

**Rehbock C, Merk V, Gamrad L, Tiedemann D, Taylor U, Kues W, Rath D, Barcikowski S:** Ligand-free metal and alloy nanoparticles and their application in reproduction biology. *Proc Jahrestagung der Deutschen Gesellschaft für Biomaterialien, Erlangen, 26.-28.09.2013*, abstract 112.

**Rehbock C, Taylor U, Kues W, Rath D, Barcikowski S:** Surface characterization, ion release and bio-response of Nitinolnanocoatings. *Proc. Jahrestagung der Deutschen Gesellschaft für Biomaterialien 2013*, abstract 116.

**Rehbock C, Werner D, Gamrad L, Taylor A, Kues W, Rath D, Barcikowski S:** Conjugated gold nanoparticles as selective imaging tools in cell biology. *Proc of the Conference SPIE Photonics West 2013*, abstract LA1136.

**Rehbock C, Werner D, Gamrad L, Taylor U, Kues W, Rath D, Barcikowski S:** Bioconjugated gold nanomarkers for imaging in cytology and reproduction biology. *Proc. of the Conference SPIE Photonics West 2013*, abstract B0406.

**Saha D, Hofmann N, Müller Th, Niemann H, Pofozhykh O, Glasmacher B:** Influence of cryopreservation procedures in mesenchymal stem cells. *Proc. of the SLBT Annual Conference 2013*, p. 70.

**Schneider H, Fischer D, Bergmann M, Ehling C, Meinecke-Tillmann S, Wehrend A, Lierz M:** Investigations on cryopreservation of psittacine semen. *Proc. of the 1<sup>st</sup> Int. Conference on Avian, Herpetological and Exotic Mammal medicine (ICARE) 2013*, p. 387.

**Sieg B, Tiedemann D, Kramer J, Taylor U, Rehbock C, Klein S, Kues W, Barcikowski S, Rath D:** Porcine sperm cell viability is not impaired by exposure to gold and silver nanoparticles. *Reprod Dom Anim* 48, Suppl. 1, 87.

**Strejcek F, Ostrup O, Morovic M, Petrovicova I, Lucas-Hahn A, Petersen B, Niemann H, Hyttel P, Laurincik J:** Limitations of porcine ooplasm to reprogram bovine somatic cells. *Reprod Fertil Dev* 25, 170.

**Strothmeyer M, Bergmann A, Großfeld R, Knorr C, Rath D:** Cryo-preservation of bull sperm in small volumes. *Proc. of the SLBT Annual Conference 10.2013*, p. 20.

**Talluri TR, Hermann D, Barg-Kues B, Debowski K, Behr R, Ivics Z, Hall VJ, Rasmussen MA, Hyttel P, Niemann H, Kues WA:** Transposon-mediated reprogramming of livestock somatic cells to induced pluripotent stem cells. *Reprod Fertil Dev* 25, 300.

**Talluri TR, Herrmann D, Barg-Kues B, Debowski K, Behr R, Ivics Z, Hall VJ, Rasmussen MA, Hyttel P, Niemann H, Kues WA:** Transposon-mediated reprogramming of porcine and bovine somatic cells to induced pluripotent stem cells. *Reprod Biol* 13 (Suppl. 2), 21.

**Taylor U, Garrels W, Petersen S, Kues W, Lucas-Hahn A, Barcikowski S, Rath D:** Unimpaired development of murine embryos after injection of silver nanoparticles. *Reprod Fertil Dev* 25, 222-223.

**Taylor U, Junge S, Bergmann A, Brüßow K, Guenther J, Schuberth HJ, Rath D:** Control and restriction of the uterine immune reaction after insemination in pigs by inhibition of pro-inflammatory pathways. *Reprod Dom Anim* 48, Suppl. 1, 61.

**Taylor U, Junge S, Schuberth HJ, Guenther J, Baulain U, Rath D:** Spermatozoa may regulate the immunological reaction of the porcine uterus after insemination by inhibition of JAK/STAT Pathway. Rodriguez-Martinez H, Soede NM, Flowers WL (eds.) *Control of Pig Reproduction IX*. Context Products Ltd., Leicestershire, UK, ISBN 978-1-89907-3484, p. 120.

**Taylor U, Rath D, Kues W, Barcikowski S, Gamrad L, Werner D, Mancini R:** Specific nano-targeting of Y-chromosome bearing spermatozoa. *Reprod Dom Anim* 48 (Suppl. 1), 88.

**Tiedemann D, Taylor U, Rehbock C, Klein S, Stuenkel M, Kues W, Barcikowski S, Rath D:** Toxic effects of gold and silver nanoparticles on the maturation process of porcine oocytes. *Reprod Dom Anim* 48 (Suppl. 1), 71.

**Yucesoy N, Ulbrich S, Gorriz L, Rath D, Brehm R, Bollwein H, Piechotta M:** In vitro myometrial contractility is higher in pluriparous cows than in heifers. *Reprod Dom Anim* 48 (Suppl. 1), 100.