

Ahrens HE, Petersen B, Herrmann D, Lucas-Hahn A, Hassel P, Ziegler M, Kues WA, Baars W, Schwinzer R, Rataj D, Werwitzke S, Tiede A, Bongoni AK, Garimella PS, Despont A, Rieben R, Niemann H: Targeting tissue factor and GGTA1 expression in pigs for improved xenograft survival. *Xenotransplantation* 22, Suppl. S1:S40.

Ahrens HE, Petersen B, Herrmann D, Lucas-Hahn A, Hassel P, Ziegler M, Kues W, Baars W, Schwinzer R, Rataj D, Werwitzke S, Tiede A, Bongoni AK, Garimella PS, Despont A, Rieben R, Niemann H: Targeting porcine tissue factor expression in transgenic pigs from improved xenograft survival. 10th Spring Meeting of the Working Group Transplant Immunology of the German Society for Immunology (DGfI), Workshop “Transplant Immunology”, 08.-09.05.2015, Würzburg, Program and Abstract Book, p. 30.

Alessio A, Fili A, Forcato D, Olmos-Nicotra F, Alustiza F, Rodriguez N, Sampaio RV, Sangalli J, Bressan F, Fantinato-Neto P, Meirelles F, Owens J, Moisyadi S, Kues WA, Bosch P: Early fetal development of nuclear transfer bovine embryos generated from fibroblasts genetically modified by piggyBac transposition. *Reprod Fertil Dev* 27:266-267.

Anand T, Kumar D, Talluri TR, Niemann H, Kues WA: In vitro generation of lentoid bodies from induced pluripotent stem cells of transgenic mice. *Reprod Fertil Dev* 27:257.

Apfelbaum R, Bevacqua R, Garrels W, Talluri TR, Mukherjee A, Ziegler M, Burchardt B, Salamone D, Niemann H, Grueso E, Ivics Z, Kues WA: A fluorophore reporter mouse model for optimization of the one-step CRISPR/Cas9 gene knockout method. 8th NRW Stem Cell Meeting, 21.-22.04.2015, Bonn, p. 29.

Apfelbaum R, Bevacqua R, Garrels W, Talluri TR, Mukherjee A, Ziegler Z, Burchardt B, Salamone D, Niemann H, Grueso E, Ivics Z, Kues WA: A fluorophore reporter mouse model for CRISPR/Cas9 gene knockout. *FLI Junior Scientist Symposium 2015*, 21.-22.09.2015, Greifswald, Abstract Collection, p. 13.

Béchu M, Lauzana E, Klein S, Rashid N, Kahle E, Meyding-Lamadé U, Köhler P, Lamadé W: Different vulnerability of left and right recurrent laryngeal nerve under tensile stress in a porcine model. 1st World Congress of Neural Monitoring in Thyroid and Parathyroid Surgery 2015, 17.-19.09.2015, Krakow, Poland, Abstract Book, p. 60.

Béchu M, Lauzana E, Köhler P, Klein S, Rashid N, Kahle E, Meyding-Lamadé U, Lamadé W: Inter- and intraindividual differences of vulnerability of recurrent laryngeal nerves under tensile stress in a porcine model. *J Neurol Sci* 357, Suppl. 1:e245-e246.

Becker F, Lacaze S, Mikkola M, Rath D: Befruchtungsraten und Embryonalentwicklung nach terminorientierter KB mit reduzierten Spermienzahlen im Vergleich zu Besamungen mit gesextem Sperma bei normozyklischen und superovulierten Rindern. 42. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 18.-19.06.2015, Dummerstorf, Programmbuch, p. 29.

Bernal SM, Heinzmann J, Herrmann D, Baulain U, Hadeler KG, Aldag P, Lucas-Hahn A, Niemann H: Einfluss eines Koffeinzusatzes vor in vitro-Reifung auf die

Entwicklungsfähigkeit boviner Oozyten. 42. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 18.-19.06.2015, Dummerstorf, Programmbuch, p. 20-21.

Bernal SM, Heinzmann J, Herrmann D, Baulain U, Hadelier KG, Aldag P, Lucas-Hahn A, Niemann H: Influence of caffeine supplementation prior to in vitro maturation on bovine oocytes developmental capacity. *Anim Reprod* 12:728.

Bernal SM, Heinzmann J, Herrmann D, Baulain U, Hadelier K-G, Aldag P, Lucas-Hahn A, Niemann H: Developmental capacity of prepubertal bovine oocytes cultured with cyclic AMP modulators. *Reprod Fertil Dev* 27:232.

Bernal SM, Heinzmann J, Herrmann D, Baulain U, Hadelier K-G, Aldag P, Lucas-Hahn A, Winkler S, Pache D, Niemann H: Cyclic AMP modulators regulate epigenetic marks in preimplantation embryos from prepubertal and adult donors. *Reprod Dom Anim* 50, Suppl 1:24.

Bevacqua RJ, Fernadéz Martin R, Gibbons A, Teixeira D, Canel NG, Lange F, Hiriart MI, Kues WA, Ferraris S, Salamone DF: Comparison of Tn5 and Sleeping Beauty transgenesis in vitro in bovine and in vivo in ovine. *Reprod Fertil Dev* 27:265-266.

Buermann A, Petkov S, Petersen B, Baars W, Hundrieser J, Niemann H, Schwinzer R: Targeting the PD-1-PD-Ligand inhibitory pathway in transgenic models for xenotransplantation. *Xenotransplantation* 22, Suppl S1:S182.

Buermann A, Petkov S, Petersen B, Baars W, Niemann H, Schwinzer R: Targeting the PD-1-PD-Ligand inhibitory pathway in transgenic models for xenotransplantation. 4th European Congress of Immunology, 06.-09.09.2015, Wien, Österreich, Abstract Book, p. 575.

Buermann A, Petkov S, Petersen B, Baars W, Niemann H, Schwinzer R: Targeting the PD-1:PD-Ligand inhibitory pathway for xenotransplantation. 10th Spring Meeting of the Working Group Transplant Immunology of the German Society for Immunology (DGfI), Workshop "Transplant Immunology", 08.-09.05.2015, Würzburg, Program and Abstract Book, p. 29.

Burchardt B, Lucas-Hahn A, Niemann H: Optimizing culture media for porcine aggregation chimeras. *FLI Junior Scientist Symposium 2015*, 21.-22.09.2015, Greifswald, Abstract Collection, p. 19.

Fischer K, Kraner-Scheiber S, Rieblinger B, Flisikowska T, Petersen B, Buermann A, Schwinzer R, Niemann H, Kind A, Schnieke A: Modifying pigs to overcome barriers to xenotransplantation. *Xenotransplantation* 22, Suppl S1:S183.

Fischer K, Kraner-Scheiber S, Rieblinger B, Flisikowska T, Petersen B, Buermann A, Schwinzer R, Niemann H, Kind A, Schnieke A: Multi-transgenic pigs for xenotransplantation. *WG/MC/Scientific Meeting of COST Action BM1308 Sharing Advances on Large Animal Models - SALAM*, 13.-16.12.2015, Poznan, Poland, p. 16.

Garrels W, Talluri TR, Bevacqua R, Alessio A, Fili A, Forcato D, Rodriguez N, Olmos Nicotra MF, Ivic Z, Salamone DF, Bosch P, Kues WA: Sleeping Beauty transgenesis in cattle. *Reprod Fertil Dev* 27:266.

Klein S, Gamrad L, Barcikowski S, Rath D: Distribution of gold nanoparticles and clusters on bovine sperm after in-vitro co-incubation. Proc. 28th Focus on Microscopy 2015, p. 282.

Klein S, Tiedemann D, Gamrad L, Rehbock C, Barcikowski S, Rath D: Flow cytometric scattering of porcine cumulus cells after uptake of metal nanoparticles. 20th Leipziger Workshop on “Translation Cytomics”, 04.-06.03.2015, Leipzig, Abstract Book, p. 10.

Kordowitzki P, Bernal SM, Herrmann D, Aldag P, Lucas-Hahn A, Niemann H: Effects of resveratrol supplementation during in vitro maturation and in vitro fertilization on developmental competence of bovine oocytes. Anim Reprod 12:738.

Kordowitzki P, Bernal SM, Herrmann D, Aldag P, Lucas-Hahn A, Niemann H: Effects of resveratrol supplementation during IVM and IVF on developmental competence of bovine oocytes and obtained blastocysts. 2nd Scientific Conference “Endometritis as a cause of infertility in domestic animals”, 27.09.2015, Gdansk, Poland, Abstract Book, p. 12.

Kordowitzki P, Bernal SM, Herrmann D, Aldag P, Lucas-Hahn A, Niemann H: Investigations about the influence of the SIRT1 and H1FOO genes regarding the developmental competence of in vitro matured bovine oocytes. 8th Graduate School Day, TiHo Hannover, PhD Program “Veterinary Science and Animal Biology”, 27.-28.11.2015, Bad Salzdetfurth, Abstracts Book, p. 17.

Kumar D, Talluri TR, Kues WA: Nonviral reprogramming of mCherry-expressing porcine fibroblasts into induced pluripotent stem cells by piggyBac transposons. Reprod Fertil Dev 27:253.

Mall EM, Burchardt B, Herrmann D, Petkov S, Petersen B, Nowak-Imialek M, Niemann H: Preventing brain contribution of primate cells in primate-to-pig chimeras: knockout of Foxg1 and evaluation of its functionality with in vitro differentiation. FLI Junior Scientist Symposium 2015, 21.-22.09.2015, Greifswald, Abstract Collection, p. 37.

Mall EM, Burchardt B, Herrmann D, Talluri TR, Petkov S, Nowak-Imialek M, Niemann H: Preventing brain contribution of primate-to-pig chimeras: Knockout of Foxg1 and evaluation of its functionality with in vitro differentiation. 3rd International Annual Conference of the German Stem Cell Network (GSCN), 09.-11.09.2015, Frankfurt/Main, Abstract Book, p. 175.

Morozov VA, Plotzki E, Heinrichs G, Wolf-van Buerck L, Knauf Y, Becker T, Maetz-Rensing K, Schuster M, Baehr A, Klymiuk N, Wolf E, Seissler J, Morozov AV, Rotem A, Barkai U, Bornstein S, Fischer K, Schnieke A, Petersen B, Niemann H, Abicht JM, Güthoff S, Reichart B, Denner J: Microbiological screening of wild-type and genetically engineered pigs and transplant recipients in pig to non-human primate xenotransplantation. Xenotransplantation 22, Suppl S1:S7.

Most I, Talluri TR, Mukherjee A, Kues WA: Characterization of sleeping beauty transposon transgenic founder mice to establish homozygous transgenic lines. FLI Junior Scientist Symposium 2015, 21.-22.09.2015, Greifswald, Abstract Collection, p. 40. (*Posterpreis*)

Mukherjee A, Kues WA: Approaches for the development of a transposon – based vaccine against Classical Swine Fever. 8th Graduate School Day, TiHo Hannover, PhD Program “Veterinary Science and Animal Biology”, 27.-28.11.2015, Bad Salzdetfurth, p. 24.

Mukherjee A, Kues WA: Dwarf phenotype in a transgenic mouse line with milk-specific expression of a viral epitope. *Reprod Dom Anim* 50, Suppl S1:49.

Nowak-Imialek M, Jacob F, Baulain U, Herrmann D, Niemann H: Effects of culture media on survival and proliferation of porcine gonocytes and spermatogonial stem cells. 13th Annual Meeting of the International Society for Stem Cell Research (ISSCR), 24.-27.06.2015, Stockholm, Sweden Poster Abstracts Book, p. 328.

Nowak-Imialek M, Lachmann N, Herrmann D, Jacob F, Niemann H: Identification of GFP expressing cells in Oct4-EGFP transgenic pig testis. *Reprod Dom Anim* 50, Suppl 1:22.

Nowak-Imialek M, Lachmann N, Herrmann D, Jacob F, Niemann H: Identification of spermatogonial stem cells in Oct4-EGFP transgenic pigs. 2nd International Congress on Stem Cell and Cellular Therapies (ICSCCT), 15.-18.10.2015, Antalya, Turkey, Abstract Book, p. 50.

Nowak-Imialek M, Lachmann N, Herrmann D, Jacob F, Niemann H: Testis-specific expression of Oct4-EGFP transgene in pig. *J Reprod Fertil* 27:251.

Petersen B, Frenzel A, Lucas-Hahn A, Hassel P, Ziegler M, Hädeler KG, Mall EM, Nowak-Imialek M, Ott M, Niemann H: Efficient production of GGTA1^{-/-}/Fah^{+/-} knockout pigs by CRISPR/Cas9 and somatic cell nuclear transfer. *Xenotransplantation* 22, Suppl S1:S39.

Petersen B, Frenzel A, Niemann H: Efficient generation of a triple knockout (GGTA1/CMAH/ASGR1) of xenorelevant genes in pig fibroblasts. *Xenotransplantation* 22, Suppl S1:S40.

Petkov S, Buermann A, Petersen B, Lucas-Hahn A, Ivics Z, Schwinzer R, Niemann H: Production of a transgenic HPD-L1 pig for xenotransplantation with the sleeping beauty transposon system. *Xenotransplantation* 22, Suppl S1:S182.

Petkov S, Petersen B, Buermann A, Lucas-Hahn A, Ivics Z, Schwinzer R, Niemann H: Production of a transgenic hPD-L1 pig for xenotransplantation using the Sleeping Beauty transposon system. *Reprod Dom Anim* 50, Suppl S1:30.

Petkov SG, Kues WA, Niemann H: Promoter-dependent silencing of reprogramming transcription factors in mouse induced pluripotent stem cells produced with sleeping beauty transposon vectors. *Reprod Fertil Dev* 27:257.

Pirro V, Jarmusch AK, Ferreira CR, González-Serrano AF, Hallett JE, Houser R, Niemann H, Cooks RG: Incorporating multiple stages of mass spectrometry into lipid profiling of oocytes and pre-implantation embryos. *Reprod Fertil Dev* 27:128.

Rao TT, Dharmendra K, Silke G, Garrels W, Niemann H, Debowski K, Kues WA: Derivation of bovine-induced pluripotent stem cells by piggyBac-mediated reprogramming. *Reprod Fertil Dev* 27:255. (selected short oral communication at IETS meeting)

Rath D, Tiedemann D, Gamrad L, Johnson LA, Klein S, Kues W, Mancini R, Rehbock C, Taylor U, Barcikowski S: Sex-sorted boar sperm – an update on related production methods. *Reprod Dom Anim* 50, Suppl 2:56-60.

Schütt RO, Knorr C, Rath D: Reduced sperm number for bovine artificial insemination – different freezing methods and their effects on post thaw quality. *Reprod Dom Anim* 50, Suppl 1:28-29.

Tiedemann D, Taylor U, Rehbock C, Jakobi J, Klein S, Kues WA, Barcikowski S, Rath D: Influence of nanoparticles on mammalian reproduction. *Reprod Dom Anim* 50, Suppl 1:25.