

Summary of publications

Prof. Dr. med. vet. Michael Hölker

(1.7.2021)

(Publications, peer-reviewed in scientific journals)

Year 2021

1. Salilew-Wondim D, Tesfaye D, Rings F, Held-Hoelker E, Miskel D, Sirard MA, Tholen E, Schellander K, **Hoelker M (2021)** The global gene expression outline of the bovine blastocyst: reflector of environmental conditions and predictor of developmental capacity. *BMC Genomics* 22(1):408. doi: 10.1186/s12864-021-07693-0
2. Taqi MO, Saeed-Zidane M, Gebremedhn S, Salilew-Wondim D, Tholen E, Neuhoff C, **Hoelker M**, Schellander K, Tesfaye D (2021) NRF2-mediated signaling is a master regulator of transcription factors in bovine granulosa cells under oxidative stress condition. *Cell Tissue Res.* (ahead of print) doi: 10.1007/s00441-021-03445-4
3. Andreas E, Pandey HO, **Hoelker M**, Salilew-Wondim D, Gebremedhn S, Schellander K, Tesfaye D (2021) The regulatory role of miR-20a in bovine cumulus cells and its contribution to oocyte maturation. *Zygote* 23:1-10 (in press) doi:10.1017/S0967199420000933
4. Gebremedhn S, Ali A, Hossain M, **Hoelker M**, Salilew-Wondim D, Anthony RV, Tesfaye D. (2021) MicroRNA-Mediated Gene Regulatory Mechanisms in Mammalian Female Reproductive Health. *Int J Mol Sci.* 22(2):938. doi: 10.3390/ijms22020938
5. Asaadi A, Dolatabad NA, Atashi H, Raes A, Van Damme P, **Hoelker M**, Hendrix A, Pascottini OB, Van Soom A, Kafi M, Pavani KC (2021) Extracellular Vesicles from Follicular and Ampullary Fluid Isolated by Density Gradient Ultracentrifugation Improve Bovine Embryo Development and Quality. *Int J Mol Sci.* 22(2):578. doi: 10.3390/ijms22020578

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6. Samuel S, Gad A, Aglan HS, Laurincik J, Prochazka R, Salilew-Wondim D, **Hoelker M**, Schellander K, Tesfaye D (2020) Extracellular vesicles shuttle protective messages against heat stress in bovine granulosa cells. *Sci Rep.* 10: 15824. doi: 10.1038/s41598-020-72706-z
7. Zolini AM, Block J, Rabaglino MB, Rincon G, **Hoelker M**, Bromfield JJ, Salilew-Wondim D, Hansen PJ (2020) Genes associated with survival of female bovine blastocysts produced in vivo. *Cell Tissue Res.* 382(3):665-678. doi: 10.1007/s00441-020-03257-y
8. Khadrawy O, Gebremedhn S, Salilew-Wondim D, Rings F, Neuhoff C, **Hoelker M**, Schellander K, Tesfaye D (2020) Quercetin supports bovine preimplantation embryo development under

oxidative stress condition via activation of the Nrf2 signalling pathway. *Reprod Domest Anim.* 55(10):1275-1285. doi: 10.1111/rda.13688

9. Tesfaye D, Hailay T, Salilew-Wondim D, **Hoelker M**, Bitseha S, Gebremedhn S. (2020) Extracellular vesicle mediated molecular signaling in ovarian follicle: Implication for oocyte developmental competence. *Theriogenology* 150:70-74. doi: 10.1016/j.theriogenology.2020.01.075
10. Aglan HS, Gebremedhn S, Salilew-Wondim D, Neuhof C, Tholen E, Holker M, Schellander K, Tesfaye D (2020) Regulation of Nrf2 and NF- κ B during lead toxicity in bovine granulosa cells. *Cell Tissue Res.* 380(3):643-655. doi: 10.1007/s00441-020-03177-x
11. Poirier M, Tesfaye D, Hailay T, Salilew-Wondim D, Gebremedhn S, Rings F, Neuhoff C, Schellander K, **Hoelker M** (2020) Metabolism-associated genome-wide epigenetic changes in bovine oocytes during early lactation. *Sci Rep.* 10(1):2345. doi: 10.1038/s41598-020-59410-8
12. Salilew-Wondim D, Gebremedhn S, **Hoelker M**, Tholen E, Hailay T, Tesfaye D (2020) The Role of MicroRNAs in Mammalian Fertility: From Gametogenesis to Embryo Implantation. *Int J Mol Sci.* 21(2): 585. doi: 10.3390/ijms21020585
13. Ghanem N, Salilew-Wondim D, **Hoelker M**, Schellander K, Tesfaye D (2020) Transcriptome profile and association study revealed *STAT3* gene as a potential quality marker of bovine gametes. *Zygote* 13:1-15. doi: 10.1017/S0967199419000765
14. Zolini AM, Block J, Rabaglino MB, Tríbulo P, **Hoelker M**, Rincon G, Bromfield JJ, Hansen PJ (2020) Molecular fingerprint of female bovine embryos produced in vitro with high competence to establish and maintain pregnancy. *Biol Reprod.* 102(2):292-305. doi: 10.1093/biolre/ioz190

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15. Ghaffari MH, Bernhöft K, Etheve S, Immig I, **Hölker M**, Sauerwein H, Schweigert FJ (2019) Technical note: Rapid field test for the quantification of vitamin E, β -carotene, and vitamin A in whole blood and plasma of dairy cattle. *J Dairy Sci.* 102(12):11744-11750. doi: 10.3168/jds.2019-16755
16. Saeed-Zidane M, Tesfaye D, Shaker YM, Tholen E, Neuhoff C, Rings F, Held E, **Hoelker M**, Schellander K, Salilew-Wondim D (2019) Hyaluronic acid and epidermal growth factor improved the bovine embryo quality by regulating the DNA methylation and expression patterns of the focal adhesion pathway. *PLoS One* 14(10): e0223753. doi: 10.1371/journal.pone.0223753
17. Taqi MO, Saeed-Zidane M, Gebremedhn S, Salilew-Wondim D, Khdrawy O, Rings F, Neuhoff C, **Hoelker M**, Schellander K, Tesfaye D (2019) Sexual dimorphic expression and release of transcription factors in bovine embryos exposed to oxidative stress. *Mol Reprod Dev.* 86(12):2005-2019. doi: 10.1002/mrd.23272
18. Islam MA, Neuhoff C, Aqter Rony S, Große-Brinkhaus C, Uddin MJ, **Hölker M**, Tesfaye D, Tholen E, Schellander K, Pröll-Cornelissen MJ (2019) PBMCs transcriptome profiles identified breed-specific transcriptome signatures for PRRSV vaccination in German Landrace and Pietrain pigs. *PLoS One.* 14(9):e0222513. doi:10.1371/journal.pone.0222513

19. Hailay T, **Hoelker M**, Poirier M, Gebremedhn S, Rings F, Saeed-Zidane M, Salilew-Wondim D, Dauben C, Tholen E, Neuhoff C, Schellander K, Tesfaye D (2019) Extracellular vesicle-coupled miRNA profiles in follicular fluid of cows with divergent post-calving metabolic status. *Sci Rep.* 9(1):12851. doi: 10.1038/s41598-019-49029-9
20. Süß D, Iwersen M, Schweinzer V, Gusterer E, Kanz P, Krieger S, Pothmann H, Wagener K, **Hoelker M**, Tesfaye D, Schellander K, Helmbrecht A, Parys C, Drillich M. (2019) Supplementing rumen-protected methionine to lactating multiparous dairy cows did not improve reproductive performance. *Reprod Domest Anim.* 54(9):1265-1273. doi: 10.1111/rda.13509

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21. Ferraz MAMM, Rho HS, Hemerich D, Henning HHW, van Tol HTA, **Hölker M**, Besenfelder U, Mokry M, Vos PLAM, Stout TAE, Le Gac S, Gadella BM (2018) An oviduct-on-a-chip provides an enhanced in vitro environment for zygote genome reprogramming. *Nat Commun.* 9(1):4934. doi: 10.1038/s41467-018-07119-8
22. Khadrawy O, Gebremedhn S, Salilew-Wondim D, Taqi MO, Neuhoff C, Tholen E, **Hoelker M**, Schellander K, Tesfaye D (2018) Endogenous and Exogenous Modulation of Nrf2 Mediated Oxidative Stress Response in Bovine Granulosa Cells: Potential Implication for Ovarian Function. *Int J Mol Sci.* 20(7). doi: 10.3390/ijms20071635.
23. Gebremedhn S, Salilew-Wondim D, **Hoelker M**, Held-Hoelker E, Neuhoff C, Tholen E, Schellander K, Tesfaye D (2018) Exploring maternal serum microRNAs during early pregnancy in cattle. *Theriogenology* 121:196-203. doi: 10.1016/j.theriogenology.2018.08.020
24. Sohel MMH, Amin A, Prastowo S, Linares-Otoya L, **Hoelker M**, Schellander K, Tesfaye D (2018) Sulforaphane protects granulosa cells against oxidative stress via activation of NRF2-ARE pathway. *Cell Tissue Res.* 2018 Jul 21. doi: 10.1007/s00441-018-2877-z.
25. Salilew-Wondim D, Saeed-Zidane M, **Hoelker M**, Gebremedhn S, Poirier M, Pandey HO, Tholen E, Neuhoff C, Held E, Besenfelder U, Havlicek V, Rings F, Fournier E, Gagné D, Sirard MA, Robert C, Gad A, Schellander K, Tesfaye D (2018) Genome-wide DNA methylation patterns of bovine blastocysts derived from in vivo embryos subjected to in vitro culture before, during or after embryonic genome activation. *BMC Genomics* 19(1):424. doi: 10.1186/s12864-018-4826-3.
26. Pande HO, Tesfaye D, **Hoelker M**, Gebremedhn S, Held E, Neuhoff C, Tholen E, Schellander K, Wondim DS (2018) MicroRNA-424/503 cluster members regulate bovine granulosa cell proliferation and cell cycle progression by targeting SMAD7 gene through activin signalling pathway. *J Ovarian Res.* 11(1):34. doi: 10.1186/s13048-018-0410-3.
27. Alemu TW, Pandey HO, Salilew Wondim D, Gebremedhn S, Neuhof C, Tholen E, **Holker M**, Schellander K, Tesfaye D (2018) Oxidative and endoplasmic reticulum stress defense mechanisms of bovine granulosa cells exposed to heat stress. *Theriogenology* 110:130-141. doi: 10.1016/j.theriogenology.2017.12.042
28. Tesfaye D, Gebremedhn S, Salilew-Wondim D, Hailay T, **Hoelker M**, Grosse-Brinkhaus C, Schellander K (2018) MicroRNAs: tiny molecules with a significant role in mammalian follicular and oocyte development. *Reproduction* 155(3):R121-R135. doi: 10.1530/REP-17-0428

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29. Islam MA, Große-Brinkhaus C, Pröll MJ, Uddin MJ, Aqter Rony S, Tesfaye D, Tholen E, **Hoelker M**, Schellander K, Neuhoﬀ C (2017) PBMC transcriptome profiles identifies potential candidate genes and functional networks controlling the innate and the adaptive immune response to PRRSV vaccine in Pietrain pig. *PLoS One*. 12(3):e0171828. doi: 10.1371/journal.pone.0171828
30. Held-Hoelker E, Klein SL, Rings F, Salilew-Wondim D, Saeed-Zidane M, Neuhoﬀ C, Tesfaye D, Schellander K, **Hoelker M** (2017) Cryosurvival of in vitro produced bovine embryos supplemented with L-Carnitine and concurrent reduction of fatty acids. *Theriogenology* 96:145-152. doi: 10.1016/j.theriogenology.2017.03.014
31. **Hoelker M**, Kassens A, Salilew-Wondim D, Sieme H, Wrenzycki C, Tesfaye D, Neuhoﬀ C, Schellander K, Held-Hoelker E (2017) Birth of healthy calves after intra-follicular transfer (IFOT) of slaughterhouse derived immature bovine oocytes. *Theriogenology* 97:41-49. doi: 10.1016/j.theriogenology.2017.04.009
32. Sinha PB, Tesfaye D, Rings F, Hossien M, **Hoelker M**, Held E, Neuhoﬀ C, Tholen E, Schellander K, Salilew-Wondim D (2017) MicroRNA-130b is involved in bovine granulosa and cumulus cells function, oocyte maturation and blastocyst formation. *J Ovarian Res.* 10(1):37. doi: 10.1186/s13048-017-0336-1
33. Saeed-Zidane M, Linden L, Salilew-Wondim D, Held E, Neuhoﬀ C, Tholen E, **Hoelker M**, Schellander K, Tesfaye D (2017) Cellular and exosome mediated molecular defense mechanism in bovine granulosa cells exposed to oxidative stress. *PLoS One* 12(11):e0187569. doi: 10.1371/journal.pone

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34. Laubenthal L, **Hoelker M**, Frahm J, Dänicke S, Gerlach K, Südekum KH, Sauerwein H, Häussler S (2016) Mitochondrial DNA copy number and biogenesis in different tissues of early- and late-lactating dairy cows. *J Dairy Sci.* 99(2):1571-1583. doi: 10.3168/jds.2015-9847
35. Tesfaye D, Salilew-Wondim D, Gebremedhn S, Sohel MM, Pandey HO, **Hoelker M**, Schellander K (2016) Potential role of microRNAs in mammalian female fertility. *Reprod Fertil Dev.* 29(1):8-23. doi: 10.1071/RD16266
36. Prastowo S, Amin A, Rings F, Held E, Wondim DS, Gad A, Neuhoﬀ C, Tholen E, Looft C, Schellander K, Tesfaye D, **Hoelker M (2016)** Fateful triad of reactive oxygen species, mitochondrial dysfunction and lipid accumulation is associated with expression outline of the AMP-activated protein kinase pathway in bovine blastocysts. *Reprod Fertil Dev.* (In press) doi: 10.1071/RD15319
37. Salilew-Wondim D, Ibrahim S, Gebremedhn S, Tesfaye D, Heppelmann M, Bollwein H, Pfarrer C, Tholen E, Neuhoﬀ C, Schellander K, **Hoelker M (2016)** Clinical and subclinical endometritis induced alterations in bovine endometrial transcriptome and miRNome profile. *BMC Genomics* 17:218. doi: 10.1186/s12864-016-2513-9
38. Laubenthal L, **Hoelker M**, Frahm J, Dänicke S, Gerlach K, Südekum KH, Sauerwein H, Häussler S (2016) Short communication: Telomere lengths in different tissues of dairy cows during early and late lactation. *J Dairy Sci.* 99(6):4881-4885. doi: 10.3168/jds.2015-1009

39. Islam MA, Große-Brinkhaus C, Pröll MJ, Uddin MJ, Rony SA, Tesfaye D, Tholen E, **Hölker M**, Schellander K, Neuhoff C (2016) Deciphering transcriptome profiles of peripheral blood mononuclear cells in response to PRRSV vaccination in pigs. *BMC Genomics* 17(1):641. doi: 10.1186/s12864-016-2849-1
40. Yang Q, Pröll MJ, Salilew-Wondim D, Zhang R, Tesfaye D, Fan H, Cinar MU, Große-Brinkhaus C, Tholen E, Islam MA, **Hölker M**, Schellander K, Uddin MJ, Neuhoff C (2016) LPS-induced expression of CD14 in the TRIF pathway is epigenetically regulated by sulforaphane in porcine pulmonary alveolar macrophages. *Innate Immun.* 22(8):682-695. doi: 10.1177/1753425916669418
41. Gebremedhn S, Salilew-Wondim D, **Hoelker M**, Rings F, Neuhoff C, Tholen E, Schellander K, Tesfaye D (2016) MicroRNA-183-96-182 Cluster Regulates Bovine Granulosa Cell Proliferation and Cell Cycle Transition by Coordinately Targeting FOXO1. *Biol Reprod.* 94(6):127. doi: 10.1095/biolreprod.115.137539
42. Andreas E, **Hoelker M**, Neuhoff C, Tholen E, Schellander K, Tesfaye D, Salilew-Wondim D (2016) MicroRNA 17-92 cluster regulates proliferation and differentiation of bovine granulosa cells by targeting PTEN and BMPR2 genes. *Cell Tissue Res.* 366(1):219-30. doi: 10.1007/s00441-016-2425-7

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43. Heinz JF, Singh SP, Janowitz U, **Hoelker M**, Tesfaye D, Schellander K, Sauerwein H (2015) Characterization of adiponectin concentrations and molecular weight forms in serum, seminal plasma, and ovarian follicular fluid from cattle. *Theriogenology* 83(3):326-33. doi: 10.1016/j.theriogenology.2014.06.030
44. Ibrahim S, Salilew-Wondim D, Rings F, **Hoelker M**, Neuhoff C, Tholen E, Looft C, Schellander K, Tesfaye D (2015) Expression pattern of inflammatory response genes and their regulatory micrnas in bovine oviductal cells in response to lipopolysaccharide: implication for early embryonic development. *PLoS One* 10(3):e0119388. doi: 10.1371/journal.pone.0119388
45. Salilew-Wondim D, Wang Q, Tesfaye D, Schellander K, **Hoelker M**, Hossain MM, Tsang BK (2015) Polycystic ovarian syndrome is accompanied by repression of gene signatures associated with biosynthesis and metabolism of steroids, cholesterol and lipids. *J Ovarian Res.* 8:24. doi: 10.1186/s13048-015-0151-5
46. Kassens A, Held E, Salilew-Wondim D, Sieme H, Wrenzycki C, Tesfaye D, Schellander K, **Hoelker M (2015)** Intrafollicular Oocyte Transfer (IFOT) of Abattoir-Derived and In Vitro-Matured Oocytes Results in Viable Blastocysts and Birth of Healthy Calves. *Biol Reprod.* 92(6):150. doi: 10.1095/biolreprod.114.124883
47. Gebremedhn S, Salilew-Wondim D, Ahmad I, Sahadevan S, Hossain MM, **Hoelker M**, Rings F, Neuhoff C, Tholen E, Looft C, Schellander K, Tesfaye D (2015) MicroRNA Expression Profile in Bovine Granulosa Cells of Preovulatory Dominant and Subordinate Follicles during the Late Follicular Phase of the Estrous Cycle. *PLoS One* 10(5):e0125912. doi: 10.1371/journal.pone.0125912
48. Qu X, Cinar MU, Fan H, Pröll M, Tesfaye D, Tholen E, Looft C, **Hölker M**, Schellander K, Uddin MJ (2015) Comparison of the innate immune responses of porcine monocyte-derived dendritic

cells and splenic dendritic cells stimulated with LPS. *Innate Immun.* 21(3):242-54. doi: 10.1177/1753425914526266

49. Qu X, Pröll M, Neuhoﬀ C, Zhang R, Cinar MU, Hossain MM, Tesfaye D, Große-Brinkhaus C, Salilew-Wondim D, Tholen E, Looft C, **Hölker M**, Schellander K, Uddin MJ (2015) Sulforaphane epigenetically regulates innate immune responses of porcine monocyte-derived dendritic cells induced with lipopolysaccharide. *PLoS One* 10(3):e0121574. doi: 10.1371/journal.pone.0121574
50. Sahadevan S, Tholen E, Große-Brinkhaus C, Schellander K, Tesfaye D, Hofmann-Apitius M, Cinar MU, Gunawan A, **Hölker M**, Neuhoﬀ C (2015) Identification of gene co-expression clusters in liver tissues from multiple porcine populations with high and low backfat androstenone phenotype. *BMC Genet.* 16:21. doi: 10.1186/s12863-014-0158-8
51. Haeger JD, Hambruch N, Dantzer V, **Hoelker M**, Schellander K, Klisch K, Pfarrer C (2015) Changes in endometrial ezrin and cytokeratin 18 expression during bovine implantation and in caruncular endometrial spheroids in vitro. *Placenta* 36(8):821-31. doi: 10.1016/j.placenta.2015.06.001
52. Salilew-Wondim D, Fournier E, **Hoelker M**, Saeed-Zidane M, Tholen E, Looft C, Neuhoﬀ C, Besenfelder U, Havlicek V, Rings F, Gagné D, Sirard MA, Robert C, Shojaei Saadi HA, Gad A, Schellander K, Tesfaye D (2015) Genome-Wide DNA Methylation Patterns of Bovine Blastocysts Developed In Vivo from Embryos Completed Different Stages of Development In Vitro. *PLoS One* 10(11):e0140467. doi: 10.1371/journal.pone.0140467
53. Noferesti SS, Sohel MM, **Hoelker M**, Salilew-Wondim D, Tholen E, Looft C, Rings F, Neuhoﬀ C, Schellander K, Tesfaye D (2015) Controlled ovarian hyperstimulation induced changes in the expression of circulatory miRNA in bovine follicular fluid and blood plasma. *J Ovarian Res.* 8:81. doi: 10.1186/s13048-015-0208-5

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54. Ponsuksili S, Tesfaye D, Schellander K, **Hoelker M**, Hadlich F, Schwerin M, Wimmers K (2014) Differential expression of miRNAs and their target mRNAs in endometria prior to maternal recognition of pregnancy associates with endometrial receptivity for in vivo- and in vitro-produced bovine embryos. *Biol Reprod* 91(6):135. doi: 10.1095/biolreprod.114.121392
55. Salilew-Wondim D, Ahmad I, Gebremedhn S, Sahadevan S, Hossain MD, Rings F, **Hoelker M**, Tholen E, Neuhoﬀ C, Looft C, Schellander K, Tesfaye D (2014) The expression pattern of microRNAs in granulosa cells of subordinate and dominant follicles during the early luteal phase of the bovine estrous cycle. *PLoS One* 9(9):e106795. doi: 10.1371/journal.pone.0106795
56. Amin A, Gad A, Salilew-Wondim D, Prastowo S, Held E, **Hoelker M**, Rings F, Tholen E, Neuhoﬀ C, Looft C, Schellander K, Tesfaye D (2014) Bovine embryo survival under oxidative-stress conditions is associated with activity of the NRF2-mediated oxidative-stress-response pathway. *Mol. Reprod.* 81(6):497-513
57. Salilew-Wondim D, Tesfaye D, **Hoelker M**, Schellander K (2014) Embryo transcriptome response to environmental factors: implication for its survival under suboptimal conditions. *Anim Reprod Sci.* 149(1-2):30-8. doi: 10.1016/j.anireprosci.2014.05.015
58. Hossain MM, Tesfaye D, Salilew-Wondim D, Held E, Pröll MJ, Rings F, Kirfel G, Looft C, Tholen E, Uddin J, Schellander K, **Hoelker M** (2014) Massive deregulation of miRNAs from nuclear

reprogramming errors during trophoblast differentiation for placentogenesis in cloned pregnancy. *BMC Genomics* 15:43. doi: 10.1186/1471-2164-15-43

59. Hailemariam D, Ibrahim S, **Hoelker M**, Drillich M, Heuwieser W, Looft C, Cinar MU, Tholen E, Schellander K, Tesfaye D (2014) MicroRNA-regulated molecular mechanism underlying bovine subclinical endometritis. *Reprod Fertil Dev.* 26(6):898-913
60. Mohammadi-Sangcheshmeh A, Held E, Rings F, Ghanem N, Salilew-Wondim D, Tesfaye D, Sieme H, Schellander K, **Hoelker M** (2014) Developmental competence of equine oocytes: impacts of zona pellucida birefringence and maternally derived transcript expression. *Reprod Fertil Dev.* 26(3):441-52

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61. Held E, Salilew-Wondim D, Linke M, Zechner U, Rings F, Tesfaye D, Schellander K, **Hoelker M** (2012) Transcriptome Fingerprint of Bovine 2-Cell Stage Blastomeres Is Directly Correlated with the Individual Developmental Competence of the Corresponding Sister Blastomere. *Biol Reprod.* 87(6): 154. doi: 10.1095/biolreprod.112.102921
62. Kocamis H, Hossain M, Cinar MU, Salilew-Wondim D, Mohammadi-Sangcheshmeh A, Tesfaye D, **Hölker M**, Schellander K (2013) Expression of microRNA and microRNA processing machinery genes during early quail (*Coturnix japonica*) embryo development. *Poult Science* 92(3): 787-97. doi: 10.3382/ps.2012-02691
63. Betscha S, **Hoelker M**, Salilew-Wondim D, Held E, Rings F, Grosse-Brinkhause C, Cinar MU, Havlicek V, Besenfelder U, Tholen E, Looft C, Schellander K, Tesfaye D (2013) Transcriptome profile of bovine elongated conceptus obtained from SCNT and IVP pregnancies. *Mol Reprod Dev.* 80(4): 315-33. doi: 10.1002/mrd.22165
64. Islam MA, Pröll M, **Hölker M**, Tholen E, Tesfaye D, Looft C, Schellander K, Cinar MU (2013) Alveolar macrophage phagocytic activity is enhanced with LPS priming, and combined stimulation of LPS and lipoteichoic acid synergistically induce pro-inflammatory cytokines in pigs. *Innate Immun.* 19(6):631-43. doi: 10.1177/1753425913477166
65. Mohammadi-Sangcheshmeh A, Held E, Rings F, Ghanem N, Salilew-Wondim D, Tesfaye D, Sieme H, Schellander K, **Hoelker M** (2013) Developmental competence of equine oocytes: impacts of zona pellucida birefringence and maternally derived transcript expression. *Reprod Fertil Dev.* 26(3):441-52. doi: 10.1071/RD12303
66. Hailemariam D, Ibrahim S, **Hoelker M**, Drillich M, Heuwieser W, Looft C, Cinar MU, Tholen E, Schellander K, Tesfaye D (2013) MicroRNA-regulated molecular mechanism underlying bovine subclinical endometritis. *Reprod Fertil Dev.* 26(6):898-913. doi: 10.1071/RD13027
67. Uddin MJ, Kaewmala K, Tesfaye D, Tholen E, Looft C, **Hoelker M**, Schellander K, Cinar MU (2013) Expression patterns of porcine Toll-like receptors family set of genes (TLR1-10) in gut-associated lymphoid tissues alter with age. *Res Vet Sci.* 2013 95(1): 92-102. doi: 10.1016/j.rvsc.2013.01.027
68. Gunawan A, Sahadevan S, Cinar MU, Neuhoﬀ C, Große-Brinkhaus C, Frieden L, Tesfaye D, Tholen E, Looft C, Wondim DS, **Hölker M**, Schellander K, Uddin MJ (2013) Identification of the novel candidate genes and variants in boar liver tissues with divergent skatole levels using RNA deep sequencing. *PLoS One* 8(8):e72298. doi: 10.1371/journal.pone.0072298

69. **Hoelker M**, Held E, Salilew-Wondim D, Schellander K, Tesfaye D (2013) Molecular signatures of bovine embryo developmental competence. *Reprod Fertil Dev.* 26(1):22-36. doi: 10.1071/RD13255
70. Sohel MM, **Hoelker M**, Noferesti SS, Salilew-Wondim D, Tholen E, Looft C, Rings F, Uddin MJ, Spencer TE, Schellander K, Tesfaye D (2013) Exosomal and Non-Exosomal Transport of Extra-Cellular microRNAs in Follicular Fluid: Implications for Bovine Oocyte Developmental Competence. *PLoS One* 8(11):e78505. doi: 10.1371/journal.pone.0078505

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71. Drillich M, Tesfaye D, Rings F, Schellander K, Heuwieser W, **Hoelker M** (2012) Effects of polymorphonuclear neutrophil infiltration into the endometrial environment on embryonic development in superovulated cows. *Theriogenology* 77(3): 570-578. doi: 10.1016/j.theriogenology.2011.08.033
72. Janowski D, Salilew-Wondim D, Torner H, Tesfaye D, Ghanem N, Tomek W, El-Sayed A, Schellander K, **Hölker M** (2012) Incidence of apoptosis and transcript abundance in bovine follicular cells is associated with the quality of the enclosed oocyte. *Theriogenology* 78(3): 656-669. doi: 10.1016/j.theriogenology.2012.03.012
73. **Hoelker M**, Salilew-Wondim D, Drillich M, Christine GB, Ghanem N, Goetze L, Tesfaye D, Schellander K, Heuwieser W (2012) Transcriptional response of the bovine endometrium and embryo to endometrial polymorphonuclear neutrophil infiltration as an indicator of subclinical inflammation of the uterine environment. *Reprod Fertil Dev.* 24(6): 778-93. doi: 10.1071/RD11171
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8. Havlicek V, Rings F, Held E, Radefeld K, Papp S, Tesfaye D, Schellander K, Brem G, Besenfelder U, Hoelker M (2017): Effekt der Superovulation beim Rind auf die frühe Embryogewinnung und deren Weiterentwicklung in vitro. 44. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 8./9.6.2017, Wieselburg, Austria, Programmbuch: 29-30 (Abstr)

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169. Ghanem N, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Schellander K, Tesfaye D (2007): Identification of candidate genes in bovine oocytes recovered at growth and dominance phases of follicular turnover. 14th International Conference on Biotechnology in Animal Reproduction (ICBAR), 6./7.8.2007, Cairo, Egypt (Abstr)
170. Regassa A, Hoelker M, Rings F, Schellander K, Tesfaye D (2007): Functional analysis of bovine *Msx1* gene during pre-implantation embryonic development. 11th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR), 21./22.9.2007, Celle, Germany, *Reprod Dom Anim* 42, 102 (Abstr)
171. Salilew-Wondim D, Rings F, Hoelker M, Jennen D, Tholen E, Sirard MA, Schellander K, Tesfaye D (2007): Dielectrophoretic behaviour of bovine oocytes and zygotes in relation to development and transcriptional abundance. *Reprod Fertil Dev* 19, 193-194 (Abstr)
172. Schellander K, Hoelker M, Tesfaye D (2007): Biological interpretation of transcriptomic profiles in mammalian embryogenesis. Second International Meeting on Mammalian Embryogenomics, 17.-20.10.2007, Paris, France (Abstr)
173. Tesfaye D, El-Sayed A, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Schellander K (2007): Transcriptional analysis of biopsies derived from in vitro produced bovine blastocysts in relation to pregnancy success after transfer to recipients. *Reprod Fertil Dev* 19, 257 (Abstr)
174. Tesfaye D, Hoelker M, Rings F, Ghanem N, Sirard MA, Schellander K (2007): Transcriptomics of bovine oocytes with different developmental potential. 11th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR), 21./22.9.2007, Celle, Germany, *Reprod Dom Anim* 42, 62 (Abstr)
175. Tesfaye D, Worku D, Salilew D, Hoelker M, Rings F, Un C, Schellander K (2007): Micro RNA expression profiling during bovine oocytes maturation. 23rd Scientific Meeting of the European Embryo Transfer Association (A.E.T.E.), 7./8.9.2007, Alghero/Sardinia, Italy (Abstr)
176. Worku D, Tesfaye D, Rings F, Hoelker M, Phatsara C, Tholen E, Schellander K (2007): Expression profiling of bovine microRNAs during oocyte maturation using arrays enriched with human, mouse and rat probes. Vortragstagung der DGfZ und der GfT, 26./27.9.2007, Stuttgart-Hohenheim, Deutschland (Abstr)

Year 2006

177. El-Sayed A, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Schellander K, Tesfaye D (2006): Identification of direct candidate genes related to pregnancy success in bovine embryos through transcriptional analyses of blastocyst biop-sies. 22nd Scientific Meeting of the

European Embryo Transfer Association / Association Européenne de Transfert Embryonnaire (A.E.T.E.), 8./9.9.2006, Zug, Switzerland (Abstr)

178. El-Sayed A, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Tesfaye D, Schellander K (2006): Transcriptional analysis of biopsies derived from in vitro-produced bovine blastocysts in relation to pregnancy success after transfer to recipients. Vortragstagung der DGfZ und der GfT, 6./7.9.2006, Hannover, Deutschland (Abstr)
179. Gebreselassie M, Rings F, Hoelker M, Jennen D, Tholen E, Nganvongpanit K, Besenfelder U, Tesfaye D, Schellander K (2006): Expression of apoptosis regulatory genes and incidence of apoptosis in different morphological quality groups of in vitro-produced bovine preimplantation embryos. Vortragstagung der DGfZ und der GfT, 6./7.9.2006, Hannover, Deutschland (Abstr)
180. Gebreselassie M, Rings F, Hoelker M, Jennen D, Tholen E, Nganvongpanit K, Besenfelder U, Tesfaye D, Schellander K (2006): Expression of apoptosis regulatory genes and incidence of apoptosis in different morphological quality groups of in vitro-produced bovine preimplantation embryos. 22nd Scientific Meeting of the European Embryo Transfer Association / Association Européenne de Transfert Embryonnaire (A.E.T.E.), 8./9.9.2006, Zug, Switzerland (Abstr)
181. Ghanem N, Hoelker M, Jennen D, Tholen E, Sirard MA, Schellander K, Tesfaye D (2006): Differential regulation of genes in bovine oocytes collected at growth and dominance phases of follicular development. 22nd Scientific Meeting of the European Embryo Transfer Association / Association Européenne de Transfert Embryonnaire (A.E.T.E.), 8./9.9.2006, Zug, Switzerland (Abstr)
182. Ghanem N, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Tesfaye D, Schellander K (2006): Genes differentially regulated in bovine oocytes re-covered at growth and dominance phases of first follicular wave. Vortragstagung der DGfZ und der GfT, 6./7.9.2006, Hannover, Deutschland (Abstr)
183. König S, Müller H, Hoelker M, Tesfaye D, Jennen D, Tholen E, Gilles M, Rings F, Schellander K (2006): The bovine PLC-Zeta protein as the physiological sperm derived trigger of Ca²⁺ oscillations at activation of the bovine oocyte. *Reprod Dom Anim* 41, 20 (Abstr)
184. Liu G, Brings AD, Jennen DGJ, Kleinwächter T, Heussner St, Tesfaye D, Hoelker M, Tholen E, Juengst H, Murani E, Ponsuksili S, Wimmers K, Schellander K (2006): A genome scan in a Duroc-Pietrain resource population reveals most prominent effects on meat quality, leanness, and fatness on SSC1 and multiple expression on SSC2. 30th International Conference on Animal Genetics (ISAG), 20.-25.8.2006, Porto Seguro, Brazil (Abstr)
185. Ngu NT, Jennen D, Ponsuksili S, Griese J, Murani E, Hoelker M, Tholen E, Juengst H, Tesfaye D, Schellander K, Wimmers K (2006): Trait-dependent expression and association of ferritin heavy-chain (FTH1) with muscularity and meat quality in pigs. 30th International Conference on Animal Genetics (ISAG), 20.-25.8.2006, Porto Seguro, Brazil (Abstr)
186. Ngu NT, Jennen DGJ, Ponsuksili S, Murani E, Hoelker M, Tholen E, Juengst H, Tesfaye D, Schellander K, Wimmers K (2006): Myosin heavy chain isoform transcript abundance and muscle fiber type distribution of Longissimus Dorsi in high and low performing pigs and different pig breeds. 30th International Conference on Animal Genetics (ISAG), 20.-25.8.2006, Porto Seguro, Brazil (Abstr)

187. Salilew-Wondim D, Rings F, Hoelker M, Jennen D, Tholen E, Havlicek V, Besenfelder U, Soukhoroukov V, Sirard MA, Tesfaye D, Schellander K (2006): The dielectrophoretic mobility of in vitro derived matured bovine oocytes and zygotes and its relation to in vitro pre-implantation embryonic developmental competence and transcriptional abundance. Vortragstagung der DGfZ und der GfT, 6./7.9.2006, Hannover, Deutschland (Abstr)
188. Schellander K, El-Sayed A, Hoelker M, Rings F, Jennen D, Tholen E, Sirard MA, Tesfaye D (2006): Transcriptional analysis of bovine blastocyst biopsies in relation to pregnancy success: A potential tool to identify direct candidate genes for developmental competence. 33. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 22./23.6.2006, Celle, Germany (Abstr)
189. Wondim D, Aljedi Y, Hoelker M, Tesfaye D, Jennen D, Tholen E, Gilles M, Rings F, Soukhoroukov V, Schellander K (2006): Dielectrophoretic behaviour of bovine oocytes and zygotes in relation to developmental competence and mRNA expression level. *Reproduction in Domestic Animals* 41, 40 (Abstr)
190. Wondim DS, Rings F, Hoelker M, Jennen DGJ, Tholen E, Havlicek V, Besenfelder U, Sirard MA, Shukhoroukov VL, Zimmermann U, Schellander K, Tesfaye D (2006): Dielectrophoretic behaviour of bovine zygotes and its relation to developmental competence and mRNA expression. 22nd Scientific Meeting of the European Embryo Transfer Association / Association Européenne de Transfert Embryonnaire (A.E.T.E.), 8./9.9.2006, Zug, Switzerland (Abstr)
191. Hölker M, Besenfelder U, Havlicek V, Rings F, Gilles M, Tesfaye D, Jennen D, Tholen E, Griese J, Jannowitz U, Schellander K (2006): Der bovine Eileiter als temporäres in vivo Kultursystem für Eizellen und Embryonen aus in vitro Produktion. 33. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 22./23.6.2006, Celle, Germany (Abstr)

Year 2005

192. Nganvongpanit K, Müller H, Rings F, Bauch K, Jennen D, Tholen E, Hölker M, Schellander K, Tesfaye D (2005): Specific suppression of E-cadherin and Oct-4 gene expression in bovine preimplantation embryos using double-stranded RNA. Vortragstagung der DGfZ und GfT am 21./22.9.2005, Berlin, Deutschland (Abstr)
193. Chomdej S, König S, Tesfaye D, Hölker M, Müller H, Gilles M, Rings F, Montag M, Tholen E, Jennen D, Schellander K (2005): Charakterisierung und funktionelle Analyse der bovinen Phospholipase C zeta (bPLCz). Vortragstagung der DGfZ und GfT am 21./22.9.2005, Berlin, Deutschland (Abstr)
194. Thumdee P, Griese J, Ponsuksili S, Gilles M, Tesfaye D, Hoelker M, Jennen D, Nganvongpanit K, Schellander K, Wimmers K (2005): Prion protein expression in cattle and sheep. Vortragstagung der DGfZ und GfT am 21./22.9.2005, Berlin, Deutschland (Abstr)

Summary of presentations on national and international scientific meetings

Invited talks:

1. **“Gene networks in the embryo and endometrium related to embryo survival”**. 9th International Ruminant Reproduction Symposium (RRS), 25.-29.8.2014, Obihiro, Hokkaido, Japan
2. **“Molecular networks in the embryo and endometrium for pregnancy success”**. 34th Annual Meeting of American Society for Reproductive Immunology (ASRI), 2-5.6.2014, Long Island, New York, USA
3. **“Molecular signatures of bovine embryo developmental competence”**. 40th Annual Conference of the International Embryo Transfer Society (IETS), 11.-14.1.2014, Reno NV, USA
4. **“Molecular profiles of bovine embryo developmental capacity”**. Sino-German-Workshops, 24.11 - 30.11.2013, Nanchang, China
5. **“Quantitative - und qualitative Entwicklung von Rinderembryonen; Einfluss der Entwicklungsumgebung”** anlässlich der Marienseer Gespräche 2013, 22. 8.2013, Mariensee /Neustadt am Rbg, Deutschland
6. **“Factors affecting bovine preimplantation embryo developmental competence”** anlässlich der 45. Jahrestagung Physiologie und Pathologie der Fortpflanzung, 29.2-2.3.2012, Berlin, Deutschland
7. **“Importance of micro RNAs in developmental biology with respect to gametes and embryos”**. Institute for Animal Breeding Wuhan, Ministry for Agriculture, 20.9.-26.9.2010, Wuhan, China
8. **“Detection of uterine microRNAs and related molecular networks and pathways underlying bovine subclinical endometritis”** im Rahmen des 6th Bovine Reproduction Consortium Meeting of Pfizer Animal Health, 26.7.-29.7.2010, Swansea, Wales
9. **“Importance of micro RNAs in developmental biology with respect to gametes and embryos”** anlässlich des 24th Annual Meeting of the Brazilian Embryo Technology Society (SBTE), 19.8.-21.8.2010, Porto de Galinhas, Brazil

Further presentations on scientific meetings

1. **„ Einfluss der Zygotenherkunft und der Kulturbedingungen auf die Morphokinetik von individuell kultivierten Rinderembryonen“** anlässlich der 45. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 7./8.6.2018, Mariensee/Neustadt am Rbg, Deutschland
2. **„Zusatz von Tauroursodeoxycholic acid (TUDCA) zum Kulturmedium –Einflüsse auf die Entwicklungsrate und die Tiefgefriertauglichkeit von Rinderembryonen“** anlässlich der 44. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 8./9.6.2017, Wieselburg, Österreich
3. **„Intrafollikulärer OozytenTransfer (IFOT) immaturer Rindereizellen verbessert die Entwicklungsrate und führt zur Geburt vitaler Kälber“** anlässlich der 43. Jahrestagung der

- Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 16./17.6.2016, Neustadt a.d. Aisch, Deutschland
4. **„Experimenteller Transfer von IVF Rinderembryonen im 32-Zellstadium. Einfluss der Entwicklungsumgebung auf Entwicklungsraten und Kryotauglichkeit“** anlässlich der 42. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 18./19.6.2015, Dummerstorf, Deutschland
 5. **“Birth of healthy calves after intrafollicular oocyte transfer (IFOT)”** anlässlich der 41th Annual Conference of the International Embryo Transfer Society (IETS), 11.-14.1.2014, Versailles, Frankreich
 6. **“Intrafollicular oocyte transfer (IFOT) – a new method to provide in vivo culture conditions for in vitro matured bovine oocytes“** anlässlich des 29th Annual Meeting A.E.T.E., 6./7.9.2013, Istanbul, Türkei
 7. **„Intrafollikulärer Eizelltransfer – eine neue Technik zur Gewinnung in vivo entwickelter Blastozysten unter Nutzung in vitro maturierter Eizellen?“** anlässlich der 40. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 6./7.6.2013, Berlin, Deutschland
 8. **“Molecular mechanisms associated with the effect of environmental factors during bovine blastocyst formation”** anlässlich des 28th Annual Meeting A.E.T.E., 7./8.9.2012, Saint Malo, France
 9. **„Einfluss der Umgebung auf die präimplantative Entwicklung von Rinderembryonen“** anlässlich der 39. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 20./21.6.2012, Schwäbisch Hall, Deutschland
 10. **„Auswirkungen einer subklinischen Endometritis auf Spülergebnis, Embryoqualität und embryonaler Genexpression“** anlässlich der 36. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 18./19.6.2009, Landshut, Deutschland
 11. **„Etablierung eines standardisierten Well-in-Well-Kultursystems für die In-vitro-Produktion von Rinderembryonen“** anlässlich der 34. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 21./22.6.2007, Hannover, Deutschland
 12. **„Der bovine Eileiter als temporäres in vivo Kultursystem für Eizellen und Embryonen aus in vitro Produktion“** anlässlich der 33. Jahrestagung der Arbeitsgemeinschaft Embryotransfer deutschsprachiger Länder (AET-d), 22./23.6.2006, Celle, Deutschland
 13. **“In vitro and in vivo development of nuclear transfer complexes derived from in vitro matured oocytes”** anlässlich der 37. Jahrestagung der Physiologie and Pathologie der Fortpflanzung: 19./20. 2.2004, München, Deutschland
 14. **„Charakterisierung des Entwicklungspotentials porziner Embryonen nach somatischem Kerntransfer unter Verwendung in vitro gereifter Oozyten“** anlässlich der 30. Jahrestagung der deutschsprachigen Arbeitsgemeinschaft Embryotransfer (AET-d), 26./27. Juni 2003, Neustadt-Mariensee, Deutschland

Posterpresentations on scientific meetings

Year 2017

1. Hailay T, Gebremedhn S, Rings F, Salilew-Wondim D, Tesfaye D, Schellander K, Hoelker M (2018) Detection of cell-free DNA in embryo culture medium: its potential application as a noninvasive method for sex determination in cattle. 34th Scientific Meeting A.E.T.E., 7./8.9.2018, Nantes, France
2. Andreas E, Salilew-Wondim D, Rings F, Held E, Hoelker M, Neuhoff C, Tholen E, Schellander K, Tesfaye D (2017): Regulatory role of Mir-20A during bovine oocyte maturation. 43rd Annual Conference of the International Embryo Transfer Society (IETS), 14.-17.1.2017, Austin, Texas
3. Islam M A, Pröll M, Rony S A, Grosse-Brinkhaus C, Uddin M J, Tesfaye D, Hölker M, Tholen E, Schellander K, Neuhoff C (2017): Comparative analyses of PBMC transcriptome profiles between German Landrace and Pietrain pigs following PRRSV vaccination. 36th International Society for Animal Genetics Conference (ISAG), 16.-21.7.2017, Dublin, Ireland
4. Saeed-Zidane M, Salilew-Wondim D, Linden L, Held E, Neuhoff C, Hoelker M, Schellander K, Tesfaye D (2017): Exosome-mediated oxidative stress response in bovine granulosa cells. 43rd Annual Conference of the International Embryo Transfer Society (IETS), 14.-17.1.2017, Austin, Texas
5. Salilew-Wondim D, Hoelker M, Besenfelder U, Havlicek V, Held E, Rings F, Gagné D, Fournier E, Sirard M A, Robert C, Tholen E, Neuhoff C, Schellander K, Tesfaye D (2017): Blastocysts developed from embryos that spent up to 2-cell stage in vivo exhibited massive DNA methylation dysregulation including imprinted genes and DNA methyltransferases. 43rd Annual Conference of the International Embryo Transfer Society (IETS), 14.-17.1.2017, Austin, Texas

Year 2016

6. Andreas E, Salilew-Wondim D, Hoelker M, Neuhoff C, Tholen E, Looft C, Schellander K, Tesfaye D (2016): MicroRNA-17-92 cluster regulates bovine granulosa cell function by targeting BMPR2 and PTEN genes. 42nd Annual Conference of the International Embryo Transfer Society (IETS), 23.-26.1.2016, Louisville, KY, USA
7. Gebremedhn S, Salilew-Wondim D, Hoelker M, Rings F, Neuhoff C, Tholen E, Looft C, Schellander K, Tesfaye D (2016): MicroRNA-183~96~182 cluster promote bovine granulosa cell proliferation through coordinated regulation of FOXO1. 42nd Annual Conference of the International Embryo Transfer Society (IETS), 23.-26.1.2016, Louisville, KY, USA
8. Havlicek V, Gad A, Papp S, Stein K, Palm F, Tesfaye D, Hoelker M, Besenfelder U (2016): Effect of superovulation pretreatment on developmental characteristics of in vitro-fertilized bovine embryos transferred to the oviduct-uterus environment. 42nd Annual Conference of the International Embryo Transfer Society (IETS), 23.-26.1.2016, Louisville, KY, USA
9. Held E, Klein S L, Rings F, Tesfaye D, Schellander K, Hoelker M (2016): Sustainable regulation of metabolic performance of bovine embryos by L-Carnitine supplement and concurrent reduction of fatty acids. 32nd Meeting of the European Embryo Transfer Association (AETE), 9./10.9.2016, Barcelona, Spain

10. Hoelker M, Salilew-Wondim D, Rings F, Tesfaye D, Schellander K (2016): Experimental transfer of bovine IVF-derived 32-cell stage embryos into the uterus: Environmental effects on developmental characteristics. 42nd Annual Conference of the International Embryo Transfer Society (IETS), 23.-26.1.2016, Louisville, KY, USA
11. Islam A, Neuhoﬀ C, Grosse-Brinkhaus C, Pröll M, Uddin M J, Rony S A, Tesfaye D, Tholen E, Hölker M, Schellander K (2016): Transcriptome proﬁling of the peripheral blood mononuclear cells following PRRSV vaccination in Pietrain pig. 35th International Society for Animal Genetics Conference (ISAG), 23.-27.07.2016, Salt Lake City, Utah, USA
12. Pandey H O, Salilew-Wondim D, Hoelker M, Neuhoﬀ C, Tholen E, Schellander K, Tesfaye D (2016): MicroRNA- 424/503 cluster orchestrates bovine granulosa cell function by regulating activin receptor 2A gene. 49th Annual Meeting of the Society for the Study of Reproduction (SSR): Systems Biology of Reproduction, 16.-20.07.2016, San Diego, CA, USA

Year 2015

13. Gad A, Besenfelder U, Havlicek V, Hoelker M, Rings F, Dufort I, Sirard M A, Schellander K, Tesfaye D (2015): In vitro culture during oocyte maturation and fertilization influences the transcriptome proﬁles of bovine blastocysts. 41th Annual Conference of the International Embryo Transfer Society (IETS), 10.-13.1.2015, Versailles, France
14. Hoelker M, Kassens A, Held E, Wrenzycki C, Besenfelder U, Havlicek V, Sieme H, Tesfaye D, Schellander K (2015): Birth of healthy calves after intrafollicular oocyte transfer. 41th Annual Conference of the International Embryo Transfer Society (IETS), 10.-13.1.2015, Versailles, France
15. Prastowo S, Rings F, Salilew-Wondim D, Tholen E, Looft C, Neuhoﬀ C, Schellander K, Tesfaye D, Hoelker M (2015): Effect of serum supplementation on amp-activated protein kinase (ampk) activity and lipid metabolism of in vitro-cultured bovine embryos. 41th Annual Conference of the International Embryo Transfer Society (IETS), 10.-13.1.2015, Versailles, France
16. Salilew-Wondim D, Hoelker M, Besenfelder U, Havlicek V, Rings F, Gagné D, Fournier E, Sirard M A, Tholen E, Looft C, Neuhoﬀ C, Schellander K, Tesfaye D (2015): In vitro-developed bovine blastocysts are marked with aberrant hyper- and hypo-methylated genomic regions. 41th Annual Conference of the International Embryo Transfer Society (IETS), 10.-13.1.2015, Versailles, France

Year 2014

17. Gebremedhn S, Ahmad I, Salilew-Wondim D, Sahadevan S, Hoelker M, Rings F, Uddin M J, Tholen E, Looft C, Schellander K, Tesfaye D (2014): Expression proﬁling of non-coding microRNAs in bovine granulosa cells of preovulatory dominant follicle using deep sequencing. 40th Annual Conference of the International Embryo Transfer Society (IETS), 11.-14.1.2014, Reno NV, USA
18. Salilew-Wondim D, Ahmad I, Gebremedhn S, Sahadevan S, Hoelker M, Rings F, Uddin M J, Tholen E, Looft C, Schellander K, Tesfaye D (2014): Regulatory microRNA enrichment and degradation in granulosa cells during bovine follicular recruitment and dominance. 40th Annual Conference of the International Embryo Transfer Society (IETS), 11.-14.1.2014, Reno NV, USA

19. Qu X, Pröll M, Neuhoff C, Zhang R, Cinar M U, Tesfaye D, Große-Brinkhaus C, Tholen E, Looft C, Hoelker M, Schellander K, Uddin M J (2014): Sulforaphane epigenetically regulates innate immune responses of porcine monocyte-derived dendritic cells induced with lipopolysaccharide. 44th Annual Meeting of the German Society for Immunology (DGfI), 17.-20.9.2014, Bonn, Germany
20. Ibrahim S, Salilew-Wondim D, Rings F, Hoelker M, Neuhoff C, Tholen E, Looft C, Schellander K, Tesfaye D (2014): Transcriptomic profile of bovine oviduct epithelium after lipopolysaccharide (LPS) challenge in vitro and its implication on embryonic development. Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR), 10.-13.9.2014, Helsinki, Finland

Year 2013

21. Kassens A, Held E, Rings F, Wrenzycki C, Besenfelder U, Havlicek V, Sieme H, Schellander K, Hoelker M (2013): Intrafollicular oocyte transfer (IFOT) – a new method to provide in vivo culture conditions for in vitro matured bovine oocytes. 29th Scientific Meeting of the European Embryo Transfer Association (AETE), 6./7.9.2013, Istanbul, Turkey
22. Held E, Prastowo S, Besenfelder U, Havlicek V, Tesfaye D, Schellander K, Hoelker M (2013): Culture Environment but not Origin of Early embryos affects cryopreservation, lipid content and expression of mitochondrial related genes in bovine blastocysts. 29th Scientific Meeting of the European Embryo Transfer Association (AETE), 6./7.9.2013, Istanbul, Turkey

Year 2012

23. Betscha S, Salilew-Wondim D, Havlicek V, Besenfelder U, Rings F, Hoelker M, Schellander K, Tesfaye D (2012): Global gene expression analysis of elongated embryos produced by somatic cell nuclear transfer and in vitro fertilization. 38th Scientific Meeting of the International Embryo Transfer society (IETS), 7.-10.1.2012, Phoenix, Arizona, USA
24. Gad A, Besenfelder U, Havlicek V, Hoelker M, Cinar MU, Rings F, Dufort I, Sirard MA, Schellander K, Tesfaye D (2012): Transcriptome profile of bovine blastocysts derived from alternative in vivo and in vitro culture conditions at specific phases of early embryonic development. 38th Scientific Meeting of the International Embryo Transfer society (IETS), 7.-10.1.2012, Phoenix, Arizona, USA
25. Mohammadi-Sangcheshmeh A, Held E, Tesfaye D, Schellander K, Hoelker M (2012): Zona pellucida birefringence correlates with cumulus morphology and glucose-6-phosphate dehydrogenase activity of equine oocytes. 38th Scientific Meeting of the International Embryo Transfer society (IETS), 7.-10.1.2012, Phoenix, Arizona, USA
26. Held E, Salilew-Wondim D, Tesfaye D, Schellander K, Hoelker M (2012): Development of bovine 2-Cell stage embryos correlates with expression of genes related to oxidative stress response. 28th Scientific Meeting of the European Embryo Transfer Association (AETE), 7./8.9.2012, Saint Malo, England
27. Gad A, Besenfelder U, Havlicek V, Hölker M, Cinar M, Rings F, Dufort I, Sirard MA, Schellander K, Tesfaye D (2012): Molecular mechanisms associated with the effect of environmental factors during bovine blastocyst formation. 28th Scientific Meeting of the European Embryo Transfer Association (AETE), 7./8.9.2012, Saint Malo, England

28. Seifi Noferesti S, Hölker M, Sohel MMH, Salilew-Wondim D, Rings F, Schellander K, Tesfaye D (2012): Effect of ovarian hyperstimulation on circulatory microRNA profile in bovine follicular fluid and blood plasma. 39th Scientific Meeting of the International Embryo Transfer society (IETS), 19.-22.1.2013, Hannover, Germany
29. Held E, Salilew-Wondim D, Tesfaye D, Schellander K, Hoelker M (2012c): 233 association of the bovine 2-cell-stage blastomere transcriptome profile with the individual developmental potential of the sister blastomere. 39th Scientific Meeting of the International Embryo Transfer society (IETS), 19.-22.1.2013, Hannover, Germany
30. Sohel MMH, Salilew-Wondim D, Hölker M, Rings F, Schellander K, Tesfaye D (2012b): Circulatory microRNA signatures in follicular fluid in relation to the growth status of bovine oocytes. 39th Scientific Meeting of the International Embryo Transfer society (IETS), 19.-22.1.2013, Hannover, Germany

Year 2011

31. Betsha S, Salilew-Wondim D, Hoelker M, Rings F, Havlicek V, Besenfelder U, Schellander K, Tesfaye D (2011c): Large scale gene expression analysis of elongated embryos derived from nuclear transfer, artificial insemination and in vitro pregnancies. 3rd Embryo Genomics Meeting, 20.-22.9.2011, Bonn, Germany
32. Gad A, Besenfelder U, Havlicek V, Hoelker M, Cinar MU, Dufort I, Sirard MA, Schellander K, Tesfaye D (2011b): Molecular mechanisms and pathways involved in bovine embryonic genome activation and influenced by alternative culture conditions. 3rd Embryo Genomics Meeting, 20.-22.9.2011, Bonn, Germany
33. Held E, Salilew-Wondim D, Tesfaye D, Cinar MU, Schellander K, Hoelker M (2011c): Association of gene expression profile of bovine 2-cell stage blastomeres with further developmental competence. 3rd Embryo Genomics Meeting, 20.-22.9.2011, Bonn, Germany
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