

- Backofen-Wehrhahn B, Gey L, Bröer S, Petersen B, Schiff M, Handreck A, Stanslowsky N, Scharrenbroich J, Weißing M, Staeger S, Wegner F, Niemann H, Löscher W, Gernert M:** Anticonvulsant effects after grafting of rat, porcine, and human mesencephalic neural progenitor cells into the rat subthalamic nucleus. *Exp Neurol* 2018, 319, 70-83.
- Buermann A, Petkov S, Petersen, B, Hein R, Lucas-Hahn A, Baars W, Brinkmann A, Niemann H, Schwinzer R:** Pigs expressing the human inhibitory ligand PD-L1 (CD 274) provide a new source of xenogenic cells and tissues with low immunogenic properties. *Xenotransplantation* 2018, 25(5), e12387; DOI:10.1111/xen12387.
- Dudde A, Schrader L, Weigend S, Matthews LR, Krause ET:** More eggs but less social and more fearful? Differences in behavioral traits in relation to the phylogenetic background and productivity level in laying hens. *Appl Anim Behav Sci* 2018, 209, 65-70.
- Eusemann BK, Baulain U, Schrader L, Thöne-Reineke C, Patt A, Petow S:** Radiographic examination of keel bone damage in living laying hens of different strains kept in two housing systems. *PLOS ONE* 2018, 13(5), e0194974 <https://doi.org/10.1371/journal.pone.0194974>.
- Feßler A, Kadlec K, Wang Y, Zhang WJ, Wu C, Shen J, Schwarz S:** Small antimicrobial resistance plasmids in livestock-associated methicillin-resistant *Staphylococcus aureus* CC398. *Front Microbiol* 2018, 9, 2063, doi.org/10.3389/fmicb.2018.02063.
- Feßler AT, Schuenemann R, Kadlec K, Hensel V, Brombach J, Murugaiyan J, Oechtering G, Burgener IA, Schwarz S:** Methicillin-resistant *Staphylococcus aureus* (MRSA) and methicillin-resistant *Staphylococcus pseudintermedius* (MRSP) among employees and in the environment of a small animal hospital. *Vet Microbiol* 2018; 221, 153-158.
- Freitag C, Michael GB, Li J, Kadlec K, Wang Y, Hassel M, Schwarz S:** Occurrence and characterisation of ESBL-encoding plasmids among *Escherichia coli* isolates from fresh vegetables. *Vet Microbiol* 2018, 219, 63-69.
- Gerlach M, Kraft T, Brenner B, Petersen B, Niemann H, Montag J:** Efficient knock-in of a point mutation in porcine fibroblasts using the CRISPR/Cas9-GMNN fusion gene. *Genes* 2018, 9, 296, doi:10.3390/genes9060296.
- Goedehardt AW, Petkov S, Gulich B, Fischer N, Niemann H, Tönjes RR:** Comparative gene expression profiling of pig-derived iPSC-like cells: Effects of induced pluripotency on expression of porcine endogenous retrovirus (PERV). *Xenotransplantation* 2018, 25, e12429, doi:10.1111/xen12429.
- Hajihoseini Z, Eghbalsaiad S:** Simultaneous effects of IGF1 and Fadrozole on parthenogenesis and pluripotency markers in chicken embryo. *Theriogenology* 2018, 114, 317-323.
- Halle I, Lieboldt MA, Henning M, Tzschenkentke B:** Pre-hatching temperature training improves performance in dual- and laying-type cockerels fed with different protein and energy concentrations. *Europ Poult Sci* 2018, 82, doi:10.1399/eps.2018.217.
- Henström M, Diekmann L, Bonfiglio F, Hadizadeh F, Kuech EM, Köckritz-Blickwede M von, Thingholm LB, Zheng T, Assadi G, Dierks C, Heine M, Philipp U, Distl O, Money ME, Belheouane M, Heinsen FA, Rafter J, Nardone G, Cuomo R, Usai-Satta P, Galeazzi F, Neri M, Walter S, Simrén M, Karling P, Ohlsson B, Schmidt PT, Lindberg G, Dlugosz A, Agreus L, Andreasson A, Mayer E, Baines JF, Engstrand L, Portincasa P, Bellini M, Stanghellini V, Barbara G, Chang L, Camilleri M, Franke A,**

- Naim HY, D'Amato M:** Functional variants in the sucrase-isomaltase gene associate with increased risk of irritable bowel syndrome. *Gut* 2018, 67(2), 263-270.
- Hübner A, Petersen B, Keil GM, Niemann H, Mettenleiter T, Fuchs W:** Efficient inhibition of African Swine Fever virus replication by CRISPR/Cas9 targeting of the viral p30 gene (CP204L). *Sci Rep* 2018, 8, 1449. doi:10.1038/s41598-018-19626-1.
- Kadlec K, Watts JL, Schwarz S, Sweeney MT:** Plasmid-located extended-spectrum β-lactamase gene blaROB-2 in *Mannheimia haemolytica*. *J Antimicrob Chemother* 2018, Epub ahead of print doi:10.1093/jac/dky515.
- Kadlec K, Schwarz S:** Antimicrobial resistance in *Bordetella bronchiseptica*. *Microbiol Spectr* 2018, 6(4): doi:10.1128/microbiolspec.ARBA-0024-2017.
- Li C, Zhou S, Li Y, Li G, Ding Y, Li L, Liu J, Qu L, Sonstegard T, Huang X, Jiang Y, Chen Y, Petersen B, Wang X:** Trio-based deep sequencing reveals a low incidence of off-target mutations in the offspring of genetically edited goats. *Front Genet* 2018, 9, 449, doi:10.3389/fgene.2018.00449.
- Lyu S, Arends D, Nassar MK, Weigend A, Weigend S, Preisinger R, Brockmann GA:** Reducing the interval of a growth QTL on chromosome 4 in laying hens. *Anim Genet* 2018, 49, 467-471.
- Malomane DK, Reimer C, Weigend S, Weigend A, Sharifi AR, Simianer H:** Efficiency of different strategies to mitigate ascertainment bias when using SNP panels in diversity studies. *BMC Genomics* 2018, 19, 22. doi:10.1186/s12864-017-4416-9.
- Manjari P, Hyder I, Kapoor S, Senthilnathan M, Dang AK:** Exploring the concentration-dependent actions of interferon-τ on bovine neutrophils to understand the process of implantation. *J Cell Biochem* 2018, 119(12), 10089-10094.
- Monecke S, Slickers P, Gawlik D, Müller E, Reissig A, Ruppelt-Lorz A, de Jäckel SC, Feßler AT, Frank M, Hotzel H, Kadlec K, Jatzwauk L, Loncaric I, Schwarz S, Schlotter K, Thürmer A, Wendlandt S, Ehricht R:** Variability of SCCmec elements in livestock-associated CC398 MRSA. *Vet Microbiol* 2018, 217, 36-46.
- Montag J, Petersen B, Flogel AK, Becker E, Lucas-Hahn A, Cost GJ, Muehlfeld C, Kraft T, Niemann H, Brenner B:** Successful knock-in of Hypertrophic Cardiomyopathy-mutation R723G into the MYH7 gene mimics HCM pathology in pigs. *Sci Rep* 2018, 8, 4768. doi:10.1038/s41598-018-22936-z.
- Morovic M, Østrup O, Strejcek F, Benc M, Murin M, Jedlickova K, Bartkova A, Lucas-Hahn A, Pendovski L, Laurincik J:** Maternally inherited rRNA triggers de novo nucleolus formation in porcine embryos. *Zygote* 2018, 26(5), 395-402.
- Niemann L, Müller P, Brauns J, Nathaus R, Schäkel F, Kipschull K, Höltig D, Wendt M, Schwarz S, Kadlec K:** Antimicrobial susceptibility and genetic relatedness of respiratory tract pathogens in weaner pigs over a 12-month period. *Vet Microbiol* 2018, 219, 165-170.
- Paal D, Strejcek F, Tvrda E, Formicki G, Klein S, Rath D, Massannyi P:** The in vitro effect of taurine on boar spermatozoa quality. *Acta U Agr Silvi Mendelianae Brunensis* 2018, 66, 131-137.
- Petersen B:** Transgenic pigs to the rescue. *eLife* 2018, 7:e37641. doi:10.7554/eLife.37641.
- Reimer, C, Rubin CJ, Sharifi AR, Ha NT, Weigend S, Waldmann KH, Distl O, Pant SD, Fredholm M, Schlather M, Simianer H:** Analysis of porcine body size variation using

re-sequencing data of miniature and large pigs. *BMC Genomics* 2018, 19, 687, doi.org/10.1186/s12864-018-5009-y.

**Schwarz S, Feßler AT, Loncaric I, Wu C, Kadlec K, Wang Y, Shen J:** Antimicrobial resistance among staphylococci of animal origin. *Microbiol Spectr* 2018 6(4), doi:10.1128/microbiolspec.ARBA-0010-2017.

**Selokar NL, Kues W:** How farm animals are improving human health and welfare. *Rev Sci Tech* 2018, 37(1), 83-96.

**Selokar NL:** CRISPR-Cas: The molecular scissors for genetic disease surgeries? *Current Science* 2018, 115(3), 383-385.

**Šterbenc N, Morrell J, Kosec M, Rath D, Klein S, Klinc P:** Single layer colloid centrifugation technique improves motility, viability and chromatin integrity of ram spermatozoa after thawing. *Cryobiology* 2018, 86, 77-83.

**Struck AK, Dierks C, Braun M, Hellige M, Wagner A, Oelmaier B, Beineke A, Metzger J, Distl O:** A recessive lethal chondrodysplasia in a miniature zebu family results from an insertion affecting the chondroitin sulfat domain of aggrecan. *BMC Genet* 2018, 19(1), 91. doi:10.1186/s12863-018-0678-8.

**Wang X, Liu J, Niu Y, Li Y, Zhou S, Li C, Ma B, Kou Q, Petersen B, Sonstegard T, Huang X, Jiang Y, Chen Y:** Low incidence of SNVs and indels in trio genomes of Cas9-mediated multiplex edited sheep. *BMC Genomics* 2018, 19, 397, doi:10.1186/s12864-018-4712-z.

**Wedi E, Köhler P, Hochberger J, Dammer S, Maiss J, Kunsch S, Ho N, Conrad G, Baulain U, Ellenrieder V, Jung C:** Evaluierung einer neuen submukosalen, hochviskosen Injektionslösung (LiftUp) für die Endoskopische Submukosa Dissektion (ESD) am EASIE-R Model: Eine prospektiv randomisierte Vergleichsstudie. *Z Gastroenterol* 2018, 56 (08), e373, doi:10.1055/s-0038-1669118.

**Zhou S, Yu H, Zhao X, Cai B, Ding Q, Huang Y, Li Y, Li Y, Niu Y, Lei A, Kou Q, Huang X, Petersen B, Ma B, Chen Y, Wang X:** Generation of gene-edited sheep with a defined Booroola fecundity gene (*FecB*) mutation in bone morphogenetic protein receptor type 1B (*BMPR1B*) via clustered regularly interspaced short palindromic repeat (CRISPR)/CRISPR-associated (Cas)9. *Reprod Fertil Dev* 2018, 30(12) 1616-1621.