

Publikationen des FLI 2018

Inhaltsverzeichnis:

Veröffentlichungen in referierten Zeitschriften	S. 2- 30
Veröffentlichungen in nicht referierten Zeitschriften/ Conference Proceedings	S. 30 - 38
Buchbeiträge	S. 38 - 39
Habilitationen, Dissertationen, PhD Theses, Diplom-, Master- und Bachelorarbeiten	S. 39 - 42

Bearbeitung: Anette Beidler
Redaktionsschluss: 31.07.2019

Veröffentlichungen in referierten Zeitschriften

Abdel-Gliil, M.Y., P. Thomas, G. Schmoock, K. Abou-El-Azm, L.H. Wieler, H. Neubauer, and C. Seyboldt. 2018. Presence of *Clostridium difficile* in poultry and poultry meat in Egypt. *Anaerobe* 51:21-25.

Abdel-Tawab, A.A., M.A. Agag, M.E. Hamdy, G. Wareth, F.I. El-Hofy, and M.M. Ramadan. 2018. Genotypic characterization of *Brucella* Spp. Isolated from sheep and goats. *Benha Vet Med J* 35:22-29.

Achek, R., H. Hotzel, Z. Cantekin, I. Nabi, T. Mossadak Hamdi, H. Neubauer, and H. El-Adawy. 2018. Emerging of antimicrobial resistance in staphylococci isolated from clinical and food samples in Algeria. *BMC Res Notes* 11:663.

Ackermann, I., J.C. Shawulu, M. Keller, O.I. Fatola, M.H. Groschup, and A. Balkema-Buschmann. 2018. Exploring PMCA as a potential in-vitro alternative method to mouse bioassays for the highly sensitive detection of BSE prions. *Berl Münch Tierärztl Wschr* 131:368-374.

Agrawal, N., I. Streata, G. Pei, J. Weiner, L. Kotze, S. Bandermann, L. Lozza, G. Walzl, N. Du Plessis, M. Ioana, S.H. Kaufmann, and A. Dorhoi. 2018. Human monocytic suppressive cells promote replication of *Mycobacterium tuberculosis* and alter stability of in vitro generated granulomas. *Front Immunol* 9:2417.

Ali, S., S. Saleem, M. Imran, M. Rizwan, K. Iqbal, G. Qadir, H. Ahmad, S. Umar, W.A. Khan, I. Khan, and H. Neubauer. 2018. Detection of *Brucella* antibodies in selected wild animals and avian species in Pakistan. *Indian J Anim Res* [Epub ahead of print; doi: 10.18805/ijar.B-799]

Amarasinghe, G.K., N.G. Aréchiga Ceballos, A.C. Banyard, C.F. Basler, S. Bavari, A.J. Bennett, K.R. Blasdel, T. Briese, A. Bukreyev, Y. Cai, C.Y. Chiu, K.-S. Choi, P.L. Collins, R.G. Dietzgen, V.V. Dolja, O. Dolnik, L.L. Domier, R. Dürrwald, J.M. Dye, A.J. Easton, H. Ebihara, J.E. Echevarría, A.R. Fooks, P.B.H. Formenty, R.A.M. Fouchier, C.M. Freuling, E. Ghedin, T.L. Goldberg, R. Hewson, M. Horie, T.H. Hyndman, D. Jiāng, R. Kityo, G.P. Kobinger, H. Kondō, E.V. Koonin, M. Krupovic, G. Kurath, R.A. Lamb, B. Lee, E.M. Leroy, P. Maes, A. Maisner, D.A. Marston, S.K. Mor, T. Müller, E. Mühlberger, V.M. Neira Ramírez, S.V. Netesov, T.F.F. Ng, N. Nowotny, G. Palacios, J.L. Patterson, J.T. Pawęska, S.L. Payne, K. Prieto, B.K. Rima, P. Rota, D. Rubbenstroth, M. Schwemmler, S. Siddell, S.J. Smither, Q. Song, T. Song, M.D. Stenglein, D.M. Stone, A. Takada, R.B. Tesh, L.M. Thomazelli, K. Tomonaga, N. Tordo, J.S. Towner, N. Vasilakis, S. Vázquez-Morón, C. Verdugo, V.E. Volchkov, V. Wahl, P.J. Walker, D. Wang, L.-F. Wang, J.F.X. Wellehan, M.R. Wiley, A.E. Whitfield, Y.I. Wolf, G. Yè, Y.-Z. Zhāng, and J.H. Kuhn. 2018. Taxonomy of the order *Mononegavirales*: update 2018. *Arch Virol* 163:2283-2294.

Ammer, S., C. Lambertz, D. von Soosten, K. Zimmer, U. Meyer, S. Dänicke, and M. Gaulty. 2018. Impact of diet composition and temperature-humidity index on water and dry matter intake of high-yielding dairy cows. *J Anim Physiol Anim Nutr* 102:103-113.

Andersson, M.O., G. Radbea, D. Frangoulidis, H. Tomaso, F. Rubel, S. Nava, and L. Chitimia-Dobler. 2018. New records and host associations of the tick *Ixodes apronophorus* and the first detection of *Ehrlichia* sp. HF in Romania. *Parasitol Res* 117:1285-1289.

Andersson, M.O., C. Tolf, P. Tamba, M. Stefanache, G. Radbea, D. Frangoulidis, H. Tomaso, J. Waldenström, G. Dobler, and L. Chitimia-Dobler. 2018. Molecular survey of neglected bacterial pathogens reveals an abundant diversity of species and genotypes in ticks collected from animal hosts across Romania. *Parasite Vector* 11:144.

Andino-Molina, M., E. Barquero-Calvo, C. Seyboldt, G. Schmoock, H. Neubauer, E. Tzoc, C. Rodríguez, and C. Quesada-Gómez. 2018. Multidrug-resistant *Clostridium difficile* ribotypes 078 and 014/5-FLI01 in piglets from Costa Rica. *Anaerobe* [Epub ahead of print; doi:10.1016/j.anaerobe.2018.11.004]

Atherstone, C., S. Diederich, H.M. Weingartl, K. Fischer, A. Balkema-Buschmann, D. Grace, S. Alonso, N.K. Dhand, M.P. Ward, and S.M. Mor. 2018. Evidence of Exposure to Henipaviruses in Domestic Pigs in Uganda. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.13105]

Ayrle, H., M Mevissen, M. Kaske, A. Vögtlin, R. Fricker, B. Hoffmann, M. Büttner, Z. Marinovic, and M. Walkenhorst. 2018. Colostral transmission of BTV-8 antibodies from dairy cows six years after vaccination. *Vaccine* **36**:5807-5810.

Backofen-Wehrhahn, B., L. Gey, S. Bröer, B. Petersen, M. Schiff, A. Handreck, N. Stanslowsky, J. Scharrenbroich, M. Weißing, S. Staeger, F. Wegner, H. Niemann, W. Löscher, and M. Gernert. 2018. Anticonvulsant effects after grafting of rat, porcine, and human mesencephalic neural progenitor cells into the rat subthalamic nucleus. *Exp Neurol* **310**:70-83.

Balkema-Buschmann, A., M. Rissmann, N. Kley, R. Ulrich, M. Eiden, and M.H. Groschup. 2018. Productive Propagation of Rift Valley Fever Phlebovirus Vaccine Strain MP-12 in *Rousettus aegyptiacus* Fruit Bats. *Viruses* **10**:681.

Bannert, E., T. Tesch, J. Kluess, J. Winkler, J. Frahm, S. Kersten, S. Kahlert, L. Renner, H.-J. Rothkötter, and S. Dänicke. 2018. On the distribution and metabolism of *Fusarium*-toxins along the gastrointestinal tract of endotoxaemic pigs. *Arch Anim Nutr* **72**:163-177.

Banyard, A.C., D. Selden, G. Wu, L. Thorne, D. Jennings, D. Marston, S. Finke, C.M. Freuling, T. Müller, J.E. Echevarría, and A.R. Fooks. 2018. Isolation, antigenicity and immunogenicity of Lleida bat lyssavirus. *J Gen Virol* **99**:1590-1599.

Barth, S.A., S. Blome, D. Cornelis, J. Pietschmann, M. Laval, O. Maestrini, L. Geue, F. Charrier, E. Etter, C. Menge, M. Beer, and F. Jori. 2018. Faecal *Escherichia coli* as biological indicator of spatial interaction between domestic pigs and wild boar (*Sus scrofa*) in Corsica. *Transbound Emerg Dis* **65**:746-757.

Bartsch, C., D. Höper, D. Mäde, and R. Johne. 2018. Analysis of frozen strawberries involved in a large norovirus gastroenteritis outbreak using next generation sequencing and digital PCR. *Food Microbiol* **76**:390-395.

Bechter, M.R., S. Moder, M. Metzner, R. Mansfeld, C. Sauter-Louis, A. Öhm, and G. Knubben-Schweizer. 2018. Bestandsprobleme mit möglicher Beteiligung von *Clostridium botulinum* in bayerischen Milchkuhbetrieben. *Tierärztl Prax* **46(G)**:213-220.

Begeman, L., C. Geurts van Kessel, S. Finke, C.M. Freuling, M. Koopmans, T. Müller, T.J.H. Ruigrok, and T. Kuiken. 2018. Comparative pathogenesis of rabies in bats and carnivores, and implications for spillover to humans. *Lancet Infect Dis* **18**:e147-e159.

Belka, A., M. Fischer, A. Pohlmann, M. Beer, and D. Höper. 2018. LVQ-KNN: Composition-based DNA/RNA binning of short nucleotide sequences utilizing a prototype-based k-nearest neighbor approach. *Virus Res* **258**:55-63.

Beltrán-Alcrudo, D., E.A. Kukielka, N. de Groot, K. Dietze, M. Sokhadze, and B. Martínez-López. 2018. Descriptive and multivariate analysis of the pig sector in Georgia and its implications for disease transmission. *PLoS one* **13**:e0202800.

Benke, C.M., F. Pollehne, A. Müller, R. Hansen, B. Kreikemeyer, and M. Labrenz. 2018. The distribution of phytoplankton in the Baltic Sea assessed by a prokaryotic 16S rRNA gene primer system. *J Plankton Res* **40**:244-254.

Berk, J., E. Stehle, and T. Bartels. 2018. Beschäftigungsmaterial - eine Möglichkeit zur Reduktion von „Beschädigungspicken“ bei Mastputen mit unkuipierten Schnäbeln? *Prakt Tierarzt* **99**:190-201.

Bessei, W., V. Lutz, J.B. Kjaer, M. Grashorn, and J. Bennewitz. 2018. Relationships between foraging and open-field activity in young chicks and feather pecking in adult birds: results of analysis

using quantitative genetics and structural equation models. *Europ Poult Sci* **82**
[doi:10.1399/eps.2018.217]

Birkel, P., A. Bharwani, J.B. Kjaer, W. Kunze, P. McBride, P. Forsythe, and A. Harlander-Matauschek. 2018. Differences in cecal microbiome of selected high and low feather-pecking laying hens. *Poult Sci* **97**:3009-3014.

Blažejová, H., Š. Oldřich, F. Rettich, J. Mendel, V. Čabanová, M. Miterpáková, L. Betášová, J. Peško, Z. Hubálek, H. Kampen, and I. Rudolf. 2018. Cryptic species *Anopheles daciae* (Diptera: Culicidae) found in the Czech Republic and Slovakia. *Parasitol Res* **117**:315-321.

Böhringer, M., A. Rakin, H. Neubauer, and L.D. Sprague. 2018. Development of a flow cytometry based assay to determine the invasion of enteropathogenic *Yersinia* into C2BBE1 cells. *J Microbiol Meth* **149**:29-35.

Bonin, E., S. Quéguiner, C. Woudstra, S. Gorin, N. Barbier, T.C. Harder, P. Fach, S. Hervé, and G. Simon. 2018. Molecular subtyping of European swine influenza viruses and scaling to high-throughput analysis. *Virology J* **15**:7.

Bonnaud, P., A. Fabre, N. Frossard, C. Guignabert, M. Inman, W.M. Kuebler, T. Maes, W. Shi, M. Stampfli, S. Uhlig, E. White, M. Witzgenrath, P.-S. Bellaye, B. Crestani, O. Eickelberg, H. Fehrenbach, A. Guenther, G. Jenkins, G. Joos, A. Magnan, B. Maitre, U.A. Maus, P. Reinhold, J.H.J. Vernooy, L. Richeldi, and M. Kolb. 2018. Optimising experimental research in respiratory diseases: an ERS statement. *Eur Resp J* **51**(5):1-34.

Braess, J., S. Amler, K.-A. Kreuzer, K. Spiekermann, H.W. Lindemann, E. Lengfelder, U. Graeven, P. Staib, W.-D. Ludwig, H. Biersack, Y.-D. Ko, M.J. Uppenkamp, M. De Wit, S. Korsten, R. Peceny, T. Gaska, X. Schiel, D.M. Behringer, M.G. Kiehl, B. Zinngrebe, G. Meckenstock, E. Roemer, D. Medgenberg, E. Spaeth-Schwalbe, G. Massenkeil, H. Hindahl, R. Schwerdtfeger, G. Trenn, C. Sauerland, R. Koch, M. Lablans, A. Faldum, D. Görlich, S.K. Bohlander, S. Schneider, A. Dufour, C. Buske, M. Fiegl, M. Subklewe, B. Braess, M. Unterhalt, A. Baumgartner, B. Wörmann, D. Beelen, and W. Hiddemann, for the AML-CG. 2018. Sequential high-dose cytarabine and mitoxantrone (S-HAM) versus standard double induction in acute myeloid leukemia—a phase 3 study. *Leukemia* **32**:2558-2571.

Brandt, J., L. Wendt, and T. Hoenen. 2018. Structure and functions of the Ebola virus matrix protein VP40. *Future Virol* [Epub ahead of print; doi:10.2217/fvl-2018-0162]

Bréard, E., A. Gorlier, C. Viarouge, F. Donnet, C. Sailleau, C. Schulz, B. Hoffmann, L. Comtet, M. Beer, S. Zientara, and D. Vitour. 2018. Evaluation of an IgM-specific ELISA for early detection of Bluetongue virus infections in domestic ruminants sera. *Transbound Emerg Dis* [Epub ahead of print; doi: 10.1111/tbed.13060]

Bréard, E., C. Schulz, C. Sailleau, C. Bernelin-Cottet, C. Viarouge, D. Vitour, B. Guillaume, G. Caignard, A. Gorlier, H. Attoui, M. Gallois, B. Hoffmann, S. Zientara, and M. Beer. 2018. Bluetongue virus serotype 27: Experimental infection of goats, sheep and cattle with three BTV-27 variants reveal atypical characteristics and likely direct contact transmission BTV-27 between goats. *Transbound Emerg Dis* **65**:e251-e263.

vom Brocke, A.L., C. Karnholz, D. Madey-Rindermann, M. Gauly, C. Leeb, C. Winckler, L. Schrader, and S. Dippel. 2018. Tail lesions in fattening pigs: relationships with postmortem meat inspection and influence of a tail biting management tool. *Animal* [Epub ahead of print; doi:10.1017/S1751731118002070]

Brockmann, S.O., R. Oehme, T. Buckenmaier, M. Beer, A. Jeffery-Smith, M. Spannenkrebs, S. Haag-Milz, C. Wagner-Wiening, C. Schlegel, J. Fritz, S. Zange, M. Bestehorn, A. Lindau, D. Hoffmann, S. Tiberi, U. Mackenstedt, and G. Dobler. 2018. A cluster of two human cases of tick-borne encephalitis (TBE) transmitted by unpasteurized goat milk and cheese in Germany, May 2016. *Eurosurveillance* **23**(15):17-00336.

- Bruger, A.M., A. Dorhoi, G. Esendagli, K. Barczyk-Kahlert, P. van der Bruggen, M. Lipoldova, T. Perecko, J. Santibanez, M. Saraiva, J.A. van Glinderachter, and S. Brandau. 2018. How to measure the immunosuppressive activity of MDSC: assays, problems and potential solutions. *Cancer Immunol Immunother* [Epub ahead of print; doi:10.1007/s00262-018-2170-8]
- Brünger, J., S. Dippel, R. Koch, and C. Veit. 2018. ‚Tailception‘: using neural networks for assessing tail lesions on pictures of pig carcasses. *Animal* [Epub ahead of print; doi:10.1017/S1751731118003038]
- Bühler, S., J. Frahm, W. Liermann, R. Tienken, S. Kersten, U. Meyer, K. Huber, and S. Dänicke. 2018. Effects of energy supply and nicotinic acid supplementation on phagocytosis and ROS production of blood immune cells of periparturient primi- and pluriparous dairy cows. *Res Vet Sci* **116**:62-71.
- Bühler, S., J. Frahm, R. Tienken, S. Kersten, U. Meyer, K. Huber, and S. Dänicke. 2018. Effects of energy supply and nicotinic acid supplementation on serum anti-oxidative capacity and on expression of oxidative stress-related genes in blood leucocytes of periparturient primi- and pluriparous dairy cows. *J Anim Physiol Anim Nutr* **102**:e97-e98.
- Buermann, A., S. Petkov, B. Petersen, R. Hein, A. Lucas-Hahn, W. Baars, A. Brinkmann, H. Niemann, and R. Schwinzer. 2018. Pigs expressing the human inhibitory ligand PD-L1 (CD 274) provide a new source of xenogeneic cells and tissues with low immunogenic properties. *Xenotransplantation* **25**:e12387.
- Burns, J.A., M.A. Chowdhury, L. Cartularo, C. Berens, and D.A. Scicchitano. 2018. Genetic instability associated with loop or stem-loop structures within transcription units can be independent of nucleotide excision repair. *Nucleic Acids Res* **46**:3498-3516.
- Burrells, A., A. Taroda, M. Opsteegh, G. Schares, J. Benavides, C. Dam-Deisz, P.M. Bartley, F. Chianini, I. Villena, J. van der Giessen, E.A. Innes, and F. Katzer. 2018. Detection and dissemination of *Toxoplasma gondii* in experimentally infected calves, a single test does not tell the whole story. *Parasite Vector* **11**:45.
- Busch, A., M.C. Elschner, D. Jacob, R. Grunow, and H. Tomaso. 2018. Draft Genome Sequence of *Bacillus anthracis* Strain Sterne 09RA8929. *Microbiol Res Announcements* **7**:e00972-18.
- Busch, A., M. Ryll, A. Immel, S. Kornell, B. Krause-Kyora, H. Tomaso, and H. Hotzel. 2018. Draft Genome Sequence of *Riemerella anatipestifer* Isolate 17CS0503. *Genome Announcements* **6**:e00274-18.
- Busch, A., P. Thomas, E. Zuchantke, H. Brendebach, K. Neubert, J. Gruetzke, S. Al Dahouk, M. Peters, H. Hotzel, H. Neubauer, and H. Tomaso. 2018. Revisiting *Francisella tularensis* subsp. *holarctica*, causative agent of tularemia in Germany with bioinformatics: New insights in genome structure, DAN methylation and comparative phylogenetic analysis. *Front Microbiol* **9**:344.
- Calcutt, M.J., I. Lysnyansky, K. Sachse, L.K. Fox, R.A.J. Nicholas, and R.D. Ayling. 2018. Gap analysis of *Mycoplasma bovis* disease, diagnosis and control: An aid to identify future development requirements. *Transbound Emerg Dis* **65**(S1):91-109.
- Calisher, C.H., T. Briese, J.R. Brister, R.N. Charrel, R. Dürrwald, H. Ebihara, C.F. Fulhorst, G.F. Gão, M.H. Groschup, A.D. Haddow, T.H. Hyndman, S. Junglen, B. Klempa, J. Klingström, A.M. Kropinski, M. Krupovic, A.D. LaBeaud, P. Maes, N. Nowotny, M.R. Teixeira Nunes, S.L. Payne, S.R. Radoshitzky, D. Rubbenstroth, S. Sabanadzovic, T. Sasaya, M.D. Stenglein, A. Varsani, V. Wahl, S.C. Weaver, F.M. Zerbin, N. Vasilakis, and J.H. Kuhn. 2018. Strengthening the Interaction of the Virology Community with the International Committee on Taxonomy of Viruses (ICTV) by Linking Virus Names and Their Abbreviations to Virus Species. *Syst Biol* [Epub ahead of print; doi:10.1093/sysbio/syy087]
- Campe, A., C. Hoes, S. Koesters, C. Froemke, S. Bougeard, M. Staack, W. Bessei, A. Manton, B. Scholz, L. Schrader, P. Thobe, and U. Knierim. 2018. Analysis of the influences on plumage condition in laying hens: How suitable is a whole body plumage score as an outcome? *Poultry Sci* **97**:358-367.

- Capelli, G., C. Genchi, G. Baneth, P. Bourdeau, E. Brianti, L. Cardoso, P. Danesi, H.-P. Fuehrer, A. Giannelli, A.M. Ionică, C. Maia, D. Modrý, F. Montarsi, J. Krücken, E. Papadopoulos, D. Petrić, M. Pfeffer, S. Savić, D. Otranto, S. Poppert, and C. Silaghi. 2018. Recent advances on *Dirofilaria repens* in dogs and humans in Europe. *Parasite Vector* 11:663.
- Carlson, J., L. Zani, T. Schwaiger, I. Nurmoja, A. Viltrop, A. Vilem, M. Beer, and S. Blome. 2018. Simplifying sampling for African swine fever surveillance: Assessment of antibody and pathogen detection from blood swabs. *Transbound Emerg Dis* 65:e165-e172.
- Chastagner, A., S. Hervé, E. Bonin, S. Quéguiner, E. Hirschaud, D. Henritzi, V. Béven, S. Gorin, N. Barbier, Y. Blanchard, and G. Simon. 2018. Spatio-temporal distribution and evolution of the A/H1N1 2009 pandemic virus in pigs in France from 2009 to 2017: identification of a potential swine-specific lineage. *J Virol* 92:e00988-18.
- Chenais, E., K. Ståhl, V. Guberti, and K. Depner. 2018. Identification of Wild Boar - Habitat Epidemiologic Cycle in African Swine Fever Epizootic. *Emerg Infect Dis* 24:810-812.
- Cheng, Y., N.B. Tjaden, A. Jaeschke, R. Lühken, U. Ziegler, S.M. Thomas, and C. Beierkuhnlein. 2018. Evaluating the risk for Usutu virus circulation in Europe: comparison of environmental niche models and epidemiological models. *Int J Health Geogr* 17:35.
- Chirek, A., C. Silaghi, K. Pfister, and B. Kohn. 2018. Vorkommen von *Anaplasma phagocytophilum* bei Blutspenderhunden in Berlin/Brandenburg (2006-2012): retrospektive Auswertung klinischer Daten und Bedeutung für die Transfusionsmedizin. *Berl Münch Tierärztl Wschr* 131:124-130.
- Chirek, A., C. Silaghi, K. Pfister, and B. Kohn. 2018. Granulocytic anaplasmosis in 63 dogs: clinical signs, laboratory results, therapy and course of disease. *J Small Anim Pract* 59:112-120.
- Christova, I., E. Panayotova, M.H. Groschup, I. Trifonova, S. Tchakarova, and M.A. Sas. 2018. High seroprevalence for Crimean-Congo haemorrhagic fever virus in ruminants in the absence of reported human cases in many regions of Bulgaria. *Exp Appl Acarol* 75:227-234.
- Conrad, T., O. Kniemeyer, S.G. Henkel, T. Krüger, D.J. Mattern, V. Valiante, R. Guthke, I.D. Jacobsen, A.A. Brakhage, S. Vlaic, and J. Linde. 2018. Module-detection approaches for the integration of multilevel omics data highlight the comprehensive response of *Aspergillus fumigatus* to caspofungin. *BMC Syst Biol* 12:88.
- Corsaro, D., M. Köhler, C. Wylezich, D. Venditti, J. Walochnik, and R. Michel. 2018. New insights from molecular phylogenetics of amoebophagous fungi (Zoopagomycota, Zoopagales). *Parasitol Res* 117:157-167.
- Corsaro, D., C. Wylezich, D. Venditti, R. Michel, J. Walochnik, and R. Wegensteiner. 2018. Filling gaps in the microsporidian tree: rDNA phylogeny of *Chytridiopsis typographi* (Microsporidia: Chytridiopsidia). *Parasitol Res* [Epub ahead of print; doi:10.1007/s00436-018-6130-1]
- Cuéllar, A.C., L.J. Kjaer, A. Baum, A. Stockmarr, H. Skovgard, S.A. Nielsen, M.G. Andersson, A. Lindström, J. Chirico, R. Lühken, S. Steinke, E. Kiel, J. Gethmann, F.J. Conraths, M. Larska, M. Smreczak, A. Orłowska, I. Hamnes, S. Sviland, P. Hopp, K. Brugger, F. Rubel, T. Balenghien, C. Garros, I. Rakotoarivony, X. Allène, J. Lhoir, D. Chavernac, J.-C. Delécolle, B. Mathieu, D. Delécolle, M.-L. Setier-Rio, R. Venail, B. Scheid, M.Á.M. Chueca, C. Barceló, J. Lucientes, R. Estrada, A. Mathis, W. Tack, and R. Bødker. 2018. Monthly variation in the probability of presence of adult *Culicoides* populations in nine European countries and the implications for targeted surveillance. *Parasite Vector* 11:608.
- Cuéllar, A.C., L.J. Kjaer, C. Kirkeby, H. Skovgard, S.A. Nielsen, A. Stockmarr, G. Andersson, A. Lindstrom, J. Cirico, R. Lühken, S. Steinke, E. Kiel, J. Gethmann, F.J. Conraths, M. Larska, I. Hamnes, S. Sviland, P. Hopp, K. Brugger, F. Rubel, T. Balenghien, C. Garros, I. Rakotoarivony, X. Allène, J. Lhoir, D. Chavernac, J.-C. Delécolle, B. Mathieu, D. Delécolle, M.-L. Setier-Rio, R. Venail, B. Scheid, M.Á.M. Chueca, C. Barceló, J. Lucientes, R. Estrada, A. Mathis, W. Tack, and R.

Bødker. 2018. Spatial and temporal variation in the abundance of *Culicoides* biting midges (Diptera: Ceratopogonidae) in nine European countries. *Parasite Vector* **11**:112.

Dähnert, L., F.J. Conraths, N. Reimer, M.H. Groschup, and M. Eiden. 2018. Molecular and serological surveillance of Hepatitis E virus in wild and domestic carnivores in Brandenburg, Germany. *Transbound Emerg Dis* **65**:1377-1380.

Dähnert, L., M. Eiden, J. Schlosser, C. Fast, C. Schröder, E. Lange, A. Gröner, W. Schäfer, and M.H. Groschup. 2018. High sensitivity of domestic pigs to intravenous infection with HEV. *BMC Vet Res* **14**:381.

Dämmgen, U., W. Brade, H. Kleine Klausung, C. Rösemann, H.-D. Haenel, and A. Berk. 2018. Hat die Nutzungsdauer von Zuchtsauen in der Ferkelerzeugung Einfluss auf die Ammoniak- und Treibhausgas-Emissionen? *Landbauforsch - Appl Agric Forestry Res* **68**(3/4):1-18.

Dämmgen, U., W. Brade, H.-D. Haenel, C. Rösemann, H. Kleine Klausung, J. Webb, and A. Berk. 2018. Pork production in Thuringia - management effects on ammonia and greenhouse gas emissions. 1. Depiction of the state in 2015. *Landbauforsch - Appl Agric Forestry Res* **68**(3/4):19-34.

Dänicke, S., U. Meyer, S. Kersten, and J. Frahm. 2018. Animal models to study the impact of nutrition on the immune system of the transition cow. *Res Vet Sci* **116**:15-27.

Dänicke, S., J. Winkler, U. Meyer, S. Kersten, K. Wernike, M. Beer, and J. Frahm. 2018. Antibody response of growing German Holstein bulls to a vaccination against bovine viral diarrhoea virus (BVDV) is influenced by *Fusarium* toxin exposure in a non-linear fashion. *Mycotoxin Res* **34**:123-139.

Dietsche, J., M. Metzner, U. Messelhauser, R. Mansfeld, C. Sauter-Louis, S. Hormannsdorfer, M. Hoedemaker, M. Dorner, and G. Knubben-Schweizer. 2018. Bedeutung von potenziell toxischen Clostridium spp. bei Herdengesundheitsproblemen in bayerischen Milchviehbeständen. *Berl Münch Tierärztl Wschr* **131**:44-52.

Dietze, K., A. Graaf, T. Homeier-Bachmann, C. Grund, L. Forth, A. Pohlmann, C. Jeske, M. Wintermann, M. Beer, F.J. Conraths, and T. Harder. 2018. From low to high pathogenicity - Characterization of H7N7 avian influenza viruses in two epidemiologically linked outbreaks. *Transbound Emerg Dis* **65**:1576-1587.

Dietze, K., T. Moritz, T. Alexandrov, K. Krstevski, K. Schlottau, M. Milovanovic, D. Hoffmann, and B. Hoffmann. 2018. Suitability of group-level oral fluid sampling in ruminant populations for lumpy skin disease virus detection. *Vet Microbiol* **221**:44-48.

Dijkstra, J.M., and T. Yamaguchi. 2018. Ancient features of the MHC class II presentation pathway, and a model for the possible origin of MHC molecules. *Immunogenetics* [Epub ahead of print; doi:10.1007/s00251-018-1090-2]

Dijkstra, J.M., T. Yamaguchi, and U. Grimholt. 2018. Conservation of sequence motifs suggests that the nonclassical MHC class I lineages CD1/PROCR and UT were established before the emergence of tetrapod species. *Immunogenetics* **70**:459-476.

Dill, V., B. Hoffmann, A. Zimmer, M. Beer, and M. Eschbaumer. 2018. Influence of cell type and cell culture media on the propagation of foot-and-mouth disease virus with regard to vaccine quality. *Virology J* **15**:46.

Dittrich, A., D. Scheibner, A.H. Salaheldin, J. Veits, M. Gischke, T.C. Mettenleiter, and E.M. Abdelwhab. 2018. Impact of Mutations in the Hemagglutinin of H10N7 Viruses Isolated from Seals on Virus Replication in Avian and Human Cells. *Viruses* **10**:83.

Dorhoi, A., E. Glaría, T. Garcia-Tellez, N.E. Nieuwenhuizen, G. Zelinskyy, B. Favier, A. Singh, J. Ehrchen, C. Gujer, C. Münz, M. Saraiva, Y. Sohrabi, A.E. Sousa, P. Delputte, M. Müller-Trutwin, and

- A.F. Valledor.** 2018. MDSCs in infectious diseases: regulation, roles, and readjustment. *Cancer Immunol Immunother* [Epub ahead of print; doi:10.1007/s00262-018-2277-y]
- Dorhoi, A., and N. Du Plessis.** 2018. Monocytic Myeloid-Derived Suppressor Cells in Chronic Infections. *Front Microbiol* **8**:1895.
- Dudde, A., E.T. Krause, L.R. Matthews, and L. Schrader.** 2018. More Than Eggs - Relationship Between Productivity and Learning in Laying Hens. *Front Psychol* **9**:2000.
- Dudde, A., L. Schrader, S. Weigend, L.R. Matthews, and E.T. Krause.** 2018. More eggs but less social and more fearful? Differences in behavioral traits in relation to the phylogenetic background and productivity level in laying hens. *J Appl Anim Behav Sci* **209**:65-70.
- Dudek, A.H., F. Pfaff, H. Bolte, C.W. Kontchou, and M. Schwemmle.** 2018. Partial inactivation of the chromatin remodelers SMARCA2 and SMARCA4 in virus-infected cells by caspase-mediated cleavage. *J Virol* **92**:e00343-18.
- Dunham, E.C., A. Leske, K. Shifflett, A. Watt, H. Feldmann, T. Hoenen, and A. Groseth.** 2018. Lifecycle modelling systems support inosine monophosphate dehydrogenase (IMPDH) as a pro-vital factor and antiviral target for New World arenaviruses. *Antiviral Res* **157**:140-150.
- Eckart, V., T. Yamaguchi, K. Franzke, S.M. Bergmann, P. Boudinot, E. Quillet, M. Kawanobe, N. Alvarez de Haro, and U. Fischer.** 2018. New cell lines for efficient propagation of koi herpesvirus and infectious salmon anaemia virus. *J Fish Dis* [Epub ahead of print; doi:10.1111/jfd.12921]
- Edwards, M.R., H. Liu, R.S. Shabman, G.M. Ginell, P. Luthra, P. Ramanan, L.J. Keefe, B. Köllner, G.K. Amarasinghe, D.J. Taylor, D.W. Leung, and C.F. Basler.** 2018. Conservation of Structure and Immune Antagonist Functions of Filoviral VP35 Homologs Present in Microbat Genomes. *Cell Rep* **24**:861-872.
- Eichhorn, I., K. Heidemanns, R.G. Ulrich, H. Schmidt, T. Semmler, A. Fruth, A. Bethe, D. Goulding, D. Pickard, H. Karch, and L.H. Wieler.** 2018. Lysogenic conversion of atypical enteropathogenic *Escherichia coli* (aEPEC) from human, murine, and bovine origin with bacteriophage Θ 3538 Δ stx₂::cat proves their enterohemorrhagic *E. coli* (EHEC) progeny. *Int J Med Microbiol* **308**:890-898.
- Eiden, M., P. Gil, U. Ziegler, I. Rakotoarivony, A. Marie, B. Frances, G. L'Ambert, Y. Simonin, V. Foulongne, M.H. Groschup, S. Gutierrez, and M. Eloit.** 2018. Emergence of two Usutu virus lineages in *Culex pipiens* mosquitoes in the Camargue, France, 2015. *Infect Genet Evol* **61**:151-154.
- van der Eijk, J.A.J., A. Lammers, J.B. Kjaer, and T.B. Rodenburg.** 2018. Stress response, peripheral serotonin and natural antibodies in feather pecking genotypes and phenotypes and their relation with coping style. *Physiol Behav* [Epub ahead of print; doi:10.1016/j.physbeh.2018.10.021]
- van der Eijk, J.A.J., A. Lammers, P. Li, J.B. Kjaer, and T.B. Rodenburg.** 2018. Feather pecking genotype and phenotype affect behavioural responses of laying hens. *Appl Anim Behav Sci* **205**:141-150.
- El-Adawy, H., H. Bocklisch, H. Neubauer, H.M. Hafez, and H. Hotzel.** 2018. Identification, differentiation and antibiotic susceptibility of *Gallibacterium* isolates from diseased poultry. *Irish Vet J* **71**:5.
- El-Diasty, M., G. Wareth, F. Melzer, S. Mustafa, L.D. Sprague, and H. Neubauer.** 2018. Isolation of *Brucella abortus* and *Brucella melitensis* from Seronegative Cows is a Serious Impediment in Brucellosis Control. *Vet Sci* **5**:28.
- Elhaig, M.M., A. Selim, A.S. Mandour, C. Schulz, and B. Hoffmann.** 2018. Prevalence and molecular characterization of Peste des Petits Ruminants virus from Ismailia and Suez, Northeastern Egypt, 2014-2016. *Small Ruminant Res* **169**:94-98.

- Endalew, A.D., I. Morozov, A.S. Davis, N.N. Gaudreault, K. Wernike, B. Bawa, M.G. Ruder, B.S. Drolet, D.S. McVey, V. Shivanna, W. Ma, B. Faburay, W.C. Wilson, and J.A. Richt. 2018. Virological and Serological Responses of Sheep and Cattle to Experimental Schmallenberg Virus Infection. *Vector-Borne Zoonotic Dis* 18:697-703.
- Engel, N., A. Adamus, M. Frank, K. Kraft, J. Kühn, P. Müller, B. Nebe, A. Kasten, and G. Seitz. 2018. First evidence of SGPL1 expression in the cell membrane silencing the extracellular S1P siren in mammary epithelial cells. *PLoS one* 13:e0196854.
- Erlen, A., H. Potschka, H.A. Volk, C. Sauter-Louis, and D.G. O'Neill. 2018. Seizure occurrence in dogs under primary veterinary care in the UK: prevalence and risk factors. *J Vet Intern Med* 32:1665-1676.
- Eusemann, B.K., U. Baulain, L. Schrader, C. Thöne-Reineke, A. Patt, and S. Petow. 2018. Radiographic examination of keel bone damage in living laying hens of different strains kept in two housing systems. *PLoS one* 13:e0194974.
- Eusemann, B.K., A.R. Sharifi, A. Patt, A.-K. Reinhard, L. Schrader, C. Thöne-Reineke, and S. Petow. 2018. Influence of a Sustained Release Deslorelin Acetate Implant on Reproductive Physiology and Associated Traits in Laying Hens. *Front Physiol* 9:1846.
- Fast, C., M. Keller, M. Kaatz, U. Ziegler, and M.H. Groschup. 2018. Low levels of classical BSE infectivity in rendered fat tissue. *Vet Res* 49:122.
- Fereidouni, S., M. Jenckel, A. Seidalina, K. Karamendin, M. Beer, E. Starick, S. Asanova, E. Kasymbekov, M. Sayatov, and A. Kydyrmanov. 2018. Next-generation sequencing of five new avian paramyxoviruses 8 isolates from Kazakhstan indicates a low genetic evolution rate over four decades. *Arch Virol* 163:331-336.
- Feßler, A.T., K. Kadlec, Y. Wang, W.-J. Zhang, C. Wu, J. Shen, and S. Schwarz. 2018. Small antimicrobial resistance plasmids in livestock-associated methicillin-resistant *Staphylococcus aureus* CC398. *Front Microbiol* 9:2063.
- Feßler, A.T., A.R. Schug, F. Geber, A.D. Scholtzek, R. Merle, J. Brombach, V. Hensel, M. Meurer, G.B. Michael, M. Reinhardt, S. Speck, U. Truyen, S. Schwarz, and the Biocide Susceptibility study group. 2018. Development and evaluation of a broth macrodilution method to determine the biocide susceptibility of bacteria. *Vet Microbiol* 223:59-64.
- Feßler, A.T., R. Schünemann, K. Kadlec, V. Hensel, J. Brombach, J. Murugaiyan, G. Oechtering, I.A. Burgener, and S. Schwarz. 2018. Methicillin-resistant *Staphylococcus aureus* (MRSA) and methicillin-resistant *Staphylococcus pseudintermedius* (MRSP) among employees and in the environment of a small animal hospital. *Vet Microbiol* 221:153-158.
- Feßler, A.T., P. Thomas, K. Mühldorfer, M. Grobbel, J. Brombach, I. Eichhorn, S. Monecke, R. Ehrlich, and S. Schwarz. 2018. Phenotypic and genotypic characteristics of *Staphylococcus aureus* isolates from zoo and wild animals. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2018.03.020]
- Fischer, K., S. Diederich, G. Smith, S. Reiche, V. Pinho dos Reis, E. Stroh, M.H. Groschup, H.M. Weingartl, and A. Balkema-Buschmann. 2018. Indirect ELISA based on Hendra and Nipah virus proteins for the detection of henipavirus specific antibodies in pigs. *PLoS one* 13:e0194385.
- Fischer, K., J. Jabaty, R. Suluku, T. Strecker, A. Groseth, S.K. Fehling, A. Balkema-Buschmann, B. Koroma, K.M. Schmidt, C. Atherstone, H.M. Weingartl, T.C. Mettenleiter, M.H. Groschup, T. Hoenen, and S. Diederich. 2018. Serological Evidence for the Circulation of Ebolaviruses in Pigs From Sierra Leone. *J Infect Dis* 218:S305-S311.
- Fischer, S., C.M. Freuling, T. Müller, F. Pfaff, U. Bodenhofer, D. Höper, M. Fischer, D.A. Marston, A.R. Fooks, T.C. Mettenleiter, F.J. Conraths, and T. Homeier-Bachmann. 2018. Defining objective

clusters for rabies virus sequences using affinity propagation clustering. *PLoS Negl Trop Dis* **12**:e0006182.

Fischer, S., A. Mayer-Scholl, C. Imholt, N.G. Spierling, E. Heuser, S. Schmidt, D. Reil, U.M. Rosenfeld, J. Jacob, K. Nöckler, and R.G. Ulrich. 2018. *Leptospira* Genomespecies and Sequence Type Prevalence in Small Mammal Populations in Germany. *Vector-Borne Zoonotic Dis* **18**:188-199.

Fischer, S., N.G. Spierling, E. Heuser, C. Kling, S. Schmidt, U.M. Rosenfeld, D. Reil, C. Imholt, J. Jacob, R.G. Ulrich, and S. Essbauer. 2018. High prevalence of *Rickettsia helvetica* in wild small mammal populations in Germany. *Ticks Tick-borne* **9**:500-505.

Flachowsky, G. 2018. The Ruminant Nutrition System - An Applied Model for Predicting Nutrient Requirements and Feed Utilization in Ruminants. Luis O. Tedeschi, Danny G. Fox; XanEdu - Change the course, Acton Maryland; USA; 2016, Hardcover; 546 pp, \$104.69; ISBN: 978-1-58390-236-3. *Anim Feed Sci Technol* **239**:9-10.

Flachowsky, G. 2018. Achieving sustainable production of milk, Burleigh Dodds. Series in Agricultural Science, Philadelphia, PA 191002-3406, USA (2017), Hardcover, Vol. 1: Milk composition, genetics and breeding, ed. by N. van Belzen; 2017, 360 pp.; Price €180.00; \$190.00; £150.00; ISBN 978-1-78676-044-9 (print); ISBN 9781786760449; Vol. 2: Safety, Quality and breeding, ed. by N. van Belzen; 2017; 432 pp.; Price: €240.00; \$250.00; £200.00; ISBN 978-1-78676-048-7 (print); ISBN 978-1-78676-050-0 (online); Vol. 3: Dairy herd management and welfare, ed. by J. Webster; 2017, 606 pp.; Price: €290.00; \$300.00; £240.00; ISBN 978-1-78676-052-4 (print); ISBN 978-1-78676-054-8 (online). *Anim Feed Sci Technol* **239**:11-13.

Flachowsky, G. 2018. Feed Evaluation Science, Paul J. Moughan, Wouter H. Hendriks, (Eds.), Wageningen Academic Publishers, P.O. Box 220, 6700 AE Wageningen, The Netherlands (2018). 524 pp., hardback, EUR 85, USD 120 ex VAT, eISBN: 978-90-8686-854-4, ISBN: 978-90-8686-309-9. *Anim Feed Sci Technol* **240**:165-167.

Flachowsky, G. 2018. INRA Feeding System for Ruminants, INRA (Ed.), Wageningen Academic Publishers, P.O. Box 220, NL-6700 AE Wageningen, The Netherlands (2018). 640 pp., paperback, EUR 79.00, USD 99 ex VAT, ISBN: 978-90-8686-292-4. *Anim Feed Sci Technol* **240**:168-169.

Flachowsky, G., U. Meyer, and K.-H. Südekum. 2018. Invited Review. Resource inputs and land, water and carbon footprints from the production of edible protein of animal origin. *Arch Anim Breed* **61**:17-36.

Fontana, S., M. Pacciarini, M. Boifava, R. Pellesi, B. Casto, M. Gastaldelli, H. Köhler, N. Pozzato, F. Casalnuovo, and M.B. Boniotti. 2018. Development and evaluation of two multi-antigen serological assays for the diagnosis of bovine tuberculosis in cattle. *Virus Res* **153**:118-126.

Forsgren, E., B. Locke, F. Sircoulomb, and M.O. Schäfer. 2018. Bacterial Diseases in Honeybees. *Curr Clin Microbiol Rep* **5**:18-25.

Forth, J.H., J. Amendt, S. Blome, K. Depner, and H. Kampen. 2018. Evaluation of blowfly larvae (Diptera: Calliphoridae) as possible reservoirs and mechanical vectors of African swine fever virus. *Transbound Emerg Dis* **65**:e210-e213.

Forth, L.F., A. Konrath, K. Klose, K. Schlottau, K. Hoffmann, R.G. Ulrich, D. Höper, A. Pohlmann, and M. Beer. 2018. A Novel Squirrel Respirivirus with Putative Zoonotic Potential. *Viruses* **10**:373.

Franzke, K., M. Leggewie, V.B. Sreenu, S. Jansen, A. Heitmann, S.R. Welch, B. Brennan, R.M. Elliott, E. Tannich, S.C. Becker, and E. Schnettler. 2018. Detection, infection dynamics and small RNA response against *Culex* Y virus in mosquito-derived cells. *J Gen Virol* **99**:1739-1745.

Freihold, D., T. Bartels, S. Bergmann, J. Berk, F. Deerberg, A. Dressel, M.H. Erhard, O. Ermakow, M. Huchler, M.-E. Krautwald-Junghanns, B. Spindler, S. Thieme, and H.M. Hafez. 2018. Investigation

of the prevalence and severity of foot pad dermatitis at the slaughterhouse in fattening turkeys reared in organic production systems in Germany. *Poultry Sci* [Epub ahead of print; doi:10.3382/ps/pey473]

Freitag, C., G.B. Michael, J. Li, K. Kadlec, Y. Wang, M. Hassel, and S. Schwarz. 2018. Occurrence and characterisation of ESBL-encoding plasmids among *Escherichia coli* isolates from fresh vegetables. *Vet Microbiol* **219**:63-69.

Fries, F.N., M. Pattmöller, B. Seitz, F. Berger, H. Kampen, N. Szentmáry, and S.L. Becker. 2018. Ophthalmomyiasis externa due to *Oestrus ovis* in a traveller returning from Greece. *Travel Med Infect Dis* **23**:101-102.

Früh, L., H. Kampen, A. Kerkow, G.A. Schaub, D. Walther, and R. Wieland. 2018. Modelling the potential distribution of an invasive mosquito species: comparative evaluation of four machine learning methods and their combinations. *Ecol Model* **388**:136-144.

Galal, L., G. Schares, C. Stragier, P. Vignoles, C. Brouat, T. Cuny, C. Dubois, T. Rohart, C. Glodas, M.-L. Dardé, M. Kane, Y. Niang, M. Diallo, A. Sow, D. Aubert, A. Hamidović, D. Ajzenberg, and A. Mercier. 2018. Diversity of *Toxoplasma gondii* strains shaped by commensal communities of small mammals. *Int J Parasitol* [Epub ahead of print; doi:10.1016/j.ijpara.2018.11.004]

Gao, Y., N.M. Suárez, G.S. Wilkie, C. Dong, S. Bergmann, P.-Y.A. Lee, A.J. Davison, A.F.C. Vanderplasschen, and M. Boutier. 2018. Genomic and biologic comparisons of cyprinid herpesvirus 3 strains. *Vet Res* **49**:40.

García-Lunar, P., G. Schares, A. Sanz-Fernández, A. Jiménez-Meléndez, I. García-Soto, J. Regidor-Cerrillo, I. Pastor-Fernández, A. Hemphill, M. Fernández-Álvarez, L.M. Ortega-Mora, and G. Álvarez-García. 2018. Development and characterization of monoclonal antibodies against *Besnoitia besnoiti* tachyzoites. *Parasitology* [Epub ahead of print; doi:10.1017/S0031182018001336]

Gerhauser, I., L. Li, D. Li, S. Klein, S.A. Elmarabet, U. Deschl, A. Kalkuhl, W. Baumgärtner, R. Ulrich, and A. Beineke. 2018. Dynamic changes and molecular analysis of cell death in the spinal cord of SJL mice infected with the BeAn strain of Theiler's murine encephalomyelitis virus. *Apoptosis* [Epub ahead of print; doi:10.1007/s10495-018-1448-9]

Gerlach, M., T. Kraft, B. Brenner, B. Petersen, H. Niemann, and J. Montag. 2018. Efficient Knock-in of a Point Mutation in Porcine Fibroblasts Using the CRISPR/Cas9-GMNN Fusion Gene. *Genes* **9**:296.

Globig, A., C. Staubach, C. Sauter-Louis, K. Dietze, T. Homeier-Bachmann, C. Probst, J. Gethmann, K.R. Depner, C. Grund, T.C. Harder, E. Starick, A. Pohlmann, D. Höper, M. Beer, T.C. Mettenleiter, and F.J. Conraths. 2018. Highly Pathogenic Avian Influenza H5N8 Clade 2.3.4.4b in Germany in 2016/2017. *Front Vet Sci* **4**:240.

Godehardt, A.W., S. Petkov, B. Gulich, N. Fischer, H. Niemann, and R.R. Tönjes. 2018. Comparative gene expression profiling of pig-derived iPSC-like cells: Effects of induced pluripotency on expression of porcine endogenous retrovirus (PERV). *Xenotransplantation* **25**:e12429.

Goecke, N.B., J.S. Krog, C.H. Hjulsager, K. Skovgaard, T.C. Harder, S.Ø. Breum, and L.E. Larsen. 2018. Subtyping of swine influenza viruses using a high-throughput real-time PCR platform. *Front Cell Infect Microbiol* **8**:165.

Golender, N., V.Y. Bumbarov, O. Erster, M. Beer, Y. Khinich, and K. Wernike. 2018. Development and validation of a universal S-segment-based real-time RT-PCR assay for the detection of Simbu serogroup viruses. *J Virol Methods* **261**:80-85.

Goller, K.V., V. Dill, M. Madi, P. Martin, Y. Van der Stede, V. Vandenberghe, B. Haas, S. Van Borm, F. Koenen, C.J. Kasanga, N. Ndusilo, M. Beer, L. Liu, V. Mioulet, B. Armson, D.P. King, and V.L. Fowler. 2018. Rapid and simple detection of foot-and-mouth disease virus: Evaluation of a cartridge-based molecular detection system for use in basic laboratories. *Transbound Emerg Dis* **65**:578-584.

- Gollnick, N.S., J.C. Scharr, S. Schares, A. Bärwald, G. Schares, and M.C. Langenmayer. 2018. Naturally acquired bovine besnoitiosis: Disease frequency, risk and outcome in an endemically infected beef herd. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.12810]
- Gondard, M., L. Michelet, A. Nisavanh, E. Devillers, S. Delannoy, P. Fach, A. Aspan, K. Ullman, J. Chirico, B. Hoffmann, F.J. van der Wal, A. de Koeijer, C. van Solt-Smits, S. Jahfari, H. Sprong, K.L. Mansfield, A.R. Fooks, K. Klitgaard, R. Bødker, and S. Moutailler. 2018. Prevalence of tick-borne viruses in *Ixodes ricinus* assessed by high-throughput real-time PCR. *FEMS Pathog Dis* **76**:8.
- Gotesman, M., S. Menanteau-Ledouble, M. Saleh, S.M. Bergmann, and M. El-Matbouli. 2018. A new age in AquaMedicine: unconventional approach in studying aquatic diseases. *BMC Vet Res* **14**:178.
- Graaf, A., R. Ulrich, P. Maksimov, D. Scheibner, S. Koethe, E.M. Abdelwhab, T.C. Mettenleiter, M. Beer, and T. Harder. 2018. A viral race for primacy: co-infection of a natural pair of low and highly pathogenic H7N7 avian influenza viruses in chickens and embryonated chicken eggs. *Emerg Microbes Infect* **7**:204.
- Grümpel, A., J. Krieter, C. Veit, and S. Dippel. 2018. Factors influencing the risk for tail lesions in weaner pigs (*Sus scrofa*). *Livestock Sci* **216**:219-226.
- Grund, C., D. Hoffmann, R. Ulrich, M. Naguib, J. Schinköthe, B. Hoffmann, T. Harder, S. Saenger, K. Zscheppang, M. Tönnes, S. Hippenstiel, A. Hocke, T. Wolff, and M. Beer. 2018. A novel European H5N8 influenza A virus has increased virulence in ducks but low zoonotic potential. *Emerg Microbes Infect* **7**:132.
- Grześkowiak, Ł., J. Riedmüller, H. de Thomasson, S. Bordessoule, C. Seyboldt, J. Zentek, and W. Vahjen. 2018. Porcine and bovine *Clostridium difficile* ribotype 078 isolates demonstrate similar growth and toxigenic properties. *Int Microbiol* **21**:215-221.
- Hajihoseini, Z., and S. Eghbalsaied. 2018. Simultaneous effects of IGF1 and Fadrozole on parthenogenesis and pluripotency markers in chicken embryo. *Theriogenology* **114**:317-323.
- Halle, I., M.A. Lieboldt, M. Henning, and B. Tzschentke. 2018. Pre-hatching temperature training improves performance in dual- and laying-type cockerels fed with different protein and energy concentrations. *Europ Poult Sci* **82** [doi:10.1399/eps.2018.217]
- Hänel, I., H. Hotzel, H. Tomaso, and A. Busch. 2018. Antimicrobial susceptibility and genomic structure of *Arcobacter skirrowii* isolates. *Front Microbiol* **9**:3067.
- Hansen, S., V. Dill, M.A. Shalaby, M. Eschbaumer, S. Böhlken-Fascher, B. Hoffmann, C.-P. Czerny, and A. Abd El Whab. 2018. Serotyping of foot-and-mouth disease virus using oxford nanopore sequencing. *J Virol Meth* [Epub ahead of print; doi:10.1016/j.jviromet.2018.10.020]
- Hartwiger, J., M. Schären, U. Gerhards, L. Hüther, J. Frahm, D. von Soosten, J. Klüß, M. Bachmann, A. Zeyner, U. Meyer, J. Isselstein, G. Breves, and S. Dänicke. 2018. Effects of a Change from an Indoor-Based Total Mixed Ration to a Rotational Pasture System Combined with a Moderate Concentrate Feed Supply on the Health and Performance of Dairy Cows. *Animals* **8**:169.
- Hartwiger, J., M. Schären, S. Potthoff, L. Hüther, S. Kersten, D. von Soosten, A. Beineke, U. Meyer, G. Breves, and S. Dänicke. 2018. Effects of a Change from an Indoor-Based Total Mixed Ration to a Rotational Pasture System Combined With a Moderate Concentrate Feed Supply on Rumen Fermentation of Dairy Cows. *Animals* **8**:205.
- Hassel, R., S. Ortmann, P. Clausen, M. Jago, F. Bruwer, P. Lindeque, C. Freuling, A. Vos, and T. Müller. 2018. Baiting studies on oral vaccination of the greater kudu (*Tragelophus strepsiceros*) against rabies. *Eur J Wildl Res* **64**:62.
- Hassel, R., A. Vos, P. Clausen, S. Moore, J. van der Westhuizen, S. Khaiseb, J. Kabajani, F. Pfaff, D. Höper, B. Hundt, M. Jago, F. Bruwer, P. Lindeque, S. Finke, C.M. Freuling, and T. Müller. 2018.

Experimental screening studies on rabies virus transmission and oral rabies vaccination of the Greater Kudu (*Tragelaphus strepsiceros*). *Sci Rep* **8**:16599.

Helmy, Y.A., N.G. Spierling, S. Schmidt, U.M. Rosenfeld, D. Reil, C. Imholt, J. Jacob, R.G. Ulrich, T. Aebischer, and C. Klotz. 2018. Occurrence and distribution of *Giardia* species in wild rodents in Germany. *Parasite Vector* **11**:213.

Henke, J., J. Carlson, L. Zani, S. Leidenberger, T. Schwaiger, K. Schlottau, J.P. Teifke, C. Schröder, M. Beer, and S. Blome. 2018. Protection against transplacental transmission of moderately virulent classical swine fever virus using live marker vaccine „CP7_E2alf“. *Vaccine* **36**:4181-4187.

Henritzi, D., B. Hoffmann, S. Wacheck, S. Pesch, G. Herrler, M. Beer, and T.C. Harder. 2018. A newly developed tetraplex real time RT-PCR for simultaneous screening of influenza virus types A, B, C and D. *Influenza Other Respir Viruses* [Epub ahead of print; doi:10.1111/irv.12613]

Hermes, R., J. Saragusty, I. Moser, S.A. Barth, S. Holtze, A. Lecu, J. Cracknell, D. Williams, F. Göritz, and T.B. Hildebrandt. 2018. Differential detection of tuberculous and non-tuberculous mycobacteria by qPCR in lavage fluids of tuberculosis-suspicious white rhinoceros. *PloS one* **13**:e0207365.

Hermes, R., J. Saragusty, I. Moser, S. Holtze, J. Nieter, K. Sachse, T. Voracek, A. Bernhard, T. Bouts, F. Göritz, and T.B. Hildebrandt. 2018. Bronchoalveolar lavage for diagnosis of tuberculosis infection in elephants. *Epidemiol Infect* **146**:481-488.

Heym, E.C., H. Kampen, M. Schäfer, and D. Walther. 2018. Mosquito bloodmeal preferences in two zoological gardens in Germany. *Med Vet Entomol* [Epub ahead of print; doi:10.1111/mve.12350]

Heym, E.C., H. Kampen, and D. Walther. 2018. Mosquito species composition and phenology (Diptera, Culicidae) in two German zoological gardens imply different risks of mosquito-borne pathogen transmission. *J Vector Ecol* **43**:80-88.

Hille, K., M. Felski, I. Ruddat, J. Woydt, A. Schmid, A. Friese, J. Fischer, H. Sharp, L. Valentin, G.B. Michael, S. Hörmansdorfer, U. Messelhäuser, U. Seibt, W. Honscha, B. Guerra, S. Schwarz, U. Rösler, A. Käsbohrer, and L. Kreienbrock. 2018. Association of farm-related factors with characteristic profiles of extended-spectrum β -lactamase-/plasmid-mediated AmpC β -lactamase-producing *Escherichia coli* isolates from German livestock farms. *Vet Microbiol* **223**:93-99.

Van der Hoek, L., E. Verschoor, M. Beer, D. Höper, K. Wernike, M. van Ranst, J. Matthijssens, P. Maes, P. Sastre, P. Rueda, J.F. Drexler, J. Barr, T. Edwards, P. Millner, P. Vermeij, A. de Groot, V. Thiel, R. Dijkman, F. Suter-Riniker, S. Leib, R. Koller, A. Ramette, O. Engler, and C. Beuret. 2018. Host switching pathogens, infectious outbreaks and zoonosis: A Marie Skłodowska-Curie innovative training network (HONOURS). *Virus Res* **257**:120-124.

Hoffmann, M., I. Nehlmeier, C. Brinkmann, V. Krähling, L. Behner, A.-S. Moldenhauer, N. Krüger, J. Nehls, M. Schindler, T. Hoenen, A. Maisner, S. Becker, and S. Pöhlmann. 2018. Tetherin inhibits Nipah virus but not Ebola virus replication in fruit bat cells. *J Virol* [Epub ahead of print; doi:10.1128/JVI.01821-18]

Hotzel, H., H. Tomaso, and A. Busch. 2018. Complete Genome Sequence of *Mycoplasma gallopavonis* Type Strain WR1. *Microbiol Res Announcements* **7**:e01256-18.

Hübner, A., G.M. Keil, T. Kabuuka, T.C. Mettenleiter, and W. Fuchs. 2018. Efficient transgene insertion in a pseudorabies virus vector by CRISPR/Cas9 and marker rescue-enforced recombination. *J Virol Methods* **262**:38-47.

Hübner, A., B. Petersen, G.M. Keil, H. Niemann, T.C. Mettenleiter, and W. Fuchs. 2018. Efficient inhibition of African swine fever virus replication by CRISPR/Cas9 targeting of the viral p30 gene (CP204L). *Sci Rep* **8**:1449.

- Hufsky, F., B. Ibrahim, M. Beer, L. Deng, P. Le Mercier, D.P. McMahon, M. Palmarini, V. Thiel, and M. Marz. 2018. Virologists - Heroes need weapons. *PLoS Pathogens* 14:e1006771.
- Hwang, S., M.H. West Greenlee, A. Balkema-Buschmann, M.H. Groschup, E.M. Nicholson, and J.J. Greenlee. 2018. Real-Time Quaking-Induced Conversion Detection of Bovine Spongiform Encephalopathy Prions in a Subclinical Steer. *Front Vet Sci* 4:242.
- Ibrahim, B., D.P. McMahon, F. Hufsky, M. Beer, L. Deng, P. Le Mercier, M. Palmarini, V. Thiel, and M. Marz. 2018. A new era of virus bioinformatics. *Virus Res* 251:86-90.
- Jäckel, S., A. Muluneh, D. Pöhle, C. Ulber, L. Dähnert, A. Vina-Rodriguez, M.H. Groschup, and M. Eiden. 2018. Co-infection of pigs with Hepatitis E and porcine circovirus 2, Saxony 2016. *Res Vet Sci* [Epub ahead of print; doi:10.1016/j.rvsc.2018.12.009]
- Jarungsriapisit, J., L.J. Moore, I.U. Fiksdal, H. Bjørgen, A. Tangerås, B. Köllner, E.O. Koppang, and S. Patel. 2018. Time after seawater transfer influences immune cell abundance and responses to SAV3 infection in Atlantic salmon. *J Fish Dis* [Epub ahead of print; doi:10.1111/jfd.12820]
- Jauset-Rubio, M., H. Tomaso, M.S. El-Shahawi, A.S. Bashammakh, A.O. Al-Youbi, and C.K. O'Sullivan. 2018. Duplex Lateral Flow Assay for the Simultaneous Detection of *Yersinia pestis* and *Francisella tularensis*. *Anal Chem* 90:12745-12751.
- Jeske, K., H. Tomaso, C. Imholt, J. Schulz, O. Beerli, J. Suchomel, M. Heroldova, J. Jacob, C. Staubach, and R.G. Ulrich. 2018. Detection of *Francisella tularensis* in three vole species in Central Europe. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.13078]
- Joerling, J., S.A. Barth, K. Schlez, H. Willems, W. Herbst, and C. Ewers. 2018. Phylogenetic diversity, antimicrobial susceptibility and virulence gene profiles of *Brachyspira hyodysenteriae* isolates from pigs in Germany. *PLoS one* 13:e0190928.
- Johnson, N., M. Fernández de Marco, A. Giovannini, C. Ippoliti, M.L. Danzetta, G. Svartz, O. Erster, M.H. Groschup, U. Ziegler, A. Mirazimi, V. Monteil, C. Beck, G. Gonzalez, S. Lecollinet, H. Attoui, and S. Moutailler. 2018. Emerging Mosquito-Borne Threats and the Response from European and Eastern Mediterranean Countries. *Int J Environ Res Publ Health* [Epub ahead of print; doi:10.3390/ijerph15122775]
- Kadlec, K., and S. Schwarz. 2018. Antimicrobial Resistance in *Bordetella bronchiseptica*. *Micobiology Spectrum* 6(4):ARBA-0024-2017.
- Kadlec, K., J.L. Watts, S. Schwarz, and M.T. Sweeney. 2018. Plasmid-located extended-spectrum β -lactamase gene *bla_{ROB-2}* in *Mannheimia haemolytica*. *J Antimicrob Chemother* [Epub ahead of print; doi:10.1093/jac/dky515]
- Karg, M., H. Frickmann, H. Hotzel, R. Lugert, U. Groß, R.M. Hagen, H. Tomaso, S. Poppert, and A.E. Zautner. 2018. Identification of *Campylobacter fetus* by fluorescence in situ hybridization (FISH). *J Microbiol Meth* 151:44-47.
- Kasonta, R., J. Mauritz, C. Spohr, C. Sauter-Louis, K. Duchow, K. Cussler, M. Holsteg, and M. Bastian. 2018. Bovine Neonatal Pancytopenia-Associated Alloantibodies Recognize Individual Bovine Leukocyte Antigen 1 Alleles. *Front Immunol* 9:1902.
- Kato, G., H. Miyazawa, Y. Nakayama, Y. Ikari, H. Kondo, T. Yamaguchi, M. Sano, and U. Fischer. 2018. A novel antigen-sampling cell in the teleost gill epithelium with the potential for direct antigen presentation in mucosal tissue. *Front Immunol* 9:2116.
- Kaufmann, S.H.E., A. Dorhoi, R.S. Hotchkiss, and R. Bartenschlager. 2018. Host-directed therapies for bacterial and viral infections. *Nat Rev Drug Discov* 17:35-56.

- Keßler, C., J.H. Forth, G.M. Keil, T.C. Mettenleiter, S. Blome, and A. Karger.** 2018. The intracellular proteome of African swine fever virus. *Sci Rep* **8**:14714.
- Kinoshita, A., C. Keese, U. Meyer, A. Starke, C. Wrenzycki, S. Dänicke, and J. Rehage.** 2018. Chronic Effects of *Fusarium* Mycotoxins in Rations with or without Increased Concentrate Proportion on the Insulin Sensitivity in Lactating Dairy Cows. *Toxins* **10**:188.
- Kinoshita, A., Á. Kenéz, M. Hasselmann, S. Dänicke, and K. Huber.** 2018. Inter-individual variation in adaptive capacity at onset of lactation: Linking metabolic phenotype with mitochondrial DNA haplotype in Holstein dairy cows. *Sci Rep* **8**:15439.
- Klaus-Halla, D., B. Mair, C. Sauter-Louis, and H. Zerbe.** 2018. Torsio uteri beim Rind: Therapie sowie Verletzungsrisiko für die Kuh und Prognosestellung für das Kalb. *Tierärztl Prax G* **46**:143-149.
- Klemmer, J., J. Njeru, A. Emam, A. El-Sayed, A.A. Moawad, K. Henning, M.A. Elbeskawy, C. Sauter-Louis, R.K. Straubinger, H. Neubauer, and M.M. El-Diasty.** 2018. Q fever in Egypt: Epidemiological survey of *Coxiella burnetii* specific antibodies in cattle, buffaloes, sheep, goats and camels. *PLoS one* **13**:e192188.
- Klotz, D., S.A. Barth, W. Baumgärtner, and M. Hewicker-Trautwein.** 2018. *Mycobacterium avium* subsp. *hominissuis* Infection in a Domestic Rabbit, Germany. *Emerg Infect Dis* **24**:596-598.
- Klupp, B.G., T. Hellberg, S. Rönfeldt, K. Franzke, W. Fuchs, and T.C. Mettenleiter.** 2018. Function of the non-conserved N-terminal domain of Pseudorabies Virus pUL31 in nuclear egress. *J Virol* **92**:e00566-18.
- König, P., K. Wernike, S. Hechinger, K. Tauscher, A. Breithaupt, and M. Beer.** 2018. Fetal infection with Schmallenberg virus - an experimental pathogenesis study in pregnant cows. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.13045]
- Koepfel, L., T. Siems, M. Fischer, and H.H.K. Lentz.** 2018. Automatic classification of farms and traders in the pig production chain. *Prev Vet Med* **150**:86-92.
- Kohl, T.A., C. Utpatel, S. Niemann, and I. Moser.** 2018. *Mycobacterium bovis* Persistence in two Different Captive Wild Animal Populations in Germany: A Longitudinal Molecular Epidemiological Study Revealing Pathogen Transmission by Whole Genome Sequencing. *J Clin Microbiol* **56**:e00302-18.
- Kok, Y.L., S. Schmutz, A. Inderbitzin, K. Neumann, A. Kelley, L. Jörmann, M. Shilaih, V. Vongrad, R.D. Kouyos, H.F. Günthard, C. Berens, and K.J. Metzner.** 2018. Spontaneous reactivation of latent HIV-1 promoters is linked to the cell cycle as revealed by a genetic-insulators-containing dual-fluorescence HIV-1-based vector. *Sci Rep* **8**:10204.
- Koliesnik, I.O., N. Andreas, V.S. Romanov, S. Sreekantapuram, B. Krljanac, R. Haenold, and F. Weih.** 2018. RelB regulates Th17 differentiation in a cell intrinsic manner. *Immunobiology* **223**:191-199.
- Kraatz, F., K. Wernike, S. Reiche, A. Aebischer, I. Reimann, and M. Beer.** 2018. Schmallenberg virus non-structural protein NSm: Intracellular distribution and role of non-hydrophobic domains. *Virology* **516**:46-54.
- Krause, E.T., and B.A. Caspers.** 2018. Do Diamond Firetails (*Stagonopleura guttata*) recognise the scent of their nest as other Estrilid finches do? *Emu - Austral Ornithol* **118**:375-380.
- Krause, E.T., J.B. Kjaer, A. Dudde, L. Schrader, and L. Phi-van.** 2018. Fear but not social behaviour is affected by a polymorphism in the 5'-flanking region of the serotonin transporter (5-HTT) gene in adult hens. *Behav Brain Res* [Epub ahead of print; doi:10.1016/j.bbr.2018.12.029]
- Krause, E.T., and L. Schrader.** 2018. High, low, or familiar? Nest site preferences of experienced laying hens. *Brit Poultry Sci* **59**:359-364.

- Kröger, C., J.E. Rothhardt, D. Brokatzky, A. Felsl, S.C. Kary, R. Heermann, and T.M. Fuchs. 2018. The small RNA RssR regulates myo-inositol degradation by *Salmonella enterica*. *Sci Rep* **8**:17739.
- Krone, O., A. Globig, R. Ulrich, T. Harder, J. Schinköthe, C. Herrmann, S. Gerst, F.J. Conraths, and M. Beer. 2018. White-Tailed Sea Eagle (*Haliaeetus albicilla*) Die-Off Due to Infection with Highly Pathogenic Avian Influenza Virus, Subtype H5N8, in Germany. *Viruses* **10**:478.
- Kuhlisch, C., H. Kampen, and D. Walther. 2018. The Asian tiger mosquito *Aedes albopictus* (Diptera: Culicidae) in Central Germany: Surveillance in its northernmost distribution area. *Acta Trop* **188**:78-85.
- Kuhlisch, C., H. Kampen, and D. Walther. 2018. Rediscovery of *Culex (Neoculex) martinii* Medschid, 1930 (Diptera, Culicidae) in Germany. *Parasitol Res* **117**:3351-3354.
- Kuiken, T., M. Breitbart, M. Beer, C. Grund, D. Höper, B. van den Hoogen, J.-L.H. Kerkhoffs, A.C.M. Kroes, K. Rosario, P. van Run, M. Schwarz, S. Svraka, J. Teifke, and M. Koopmans. 2018. Zoonotic Infection with Pigeon Paramyxovirus Type 1 linked to Fatal Pneumonia. *J Infect Dis* **218**:1037-1044.
- Küntzel, A., P. Oertel, S. Fischer, A. Bergmann, P. Trefz, J. Schubert, W. Miekisch, P. Reinhold, and H. Köhler. 2018. Comparative analysis of volatile organic compounds for the classification and identification of mycobacterial species. *PLoS one* **13**:e0194348.
- Küntzel, A., P. Oertel, P. Trefz, W. Miekisch, J.K. Schubert, H. Köhler, and P. Reinhold. 2018. Animal science meets agricultural practice: Preliminary results of an innovative technical approach for exhaled breath analysis in cattle under field conditions. *Berl Münch Tierärztl Wschr* **131**:444-452.
- Lagrée, A.-C., C. Rouxel, M. Kevin, T. Dugat, G. Girault, B. Durand, M. Pfeffer, C. Silaghi, M. Nieder, H.-J. Boulouis, and N. Haddad. 2018. Co-circulation of different *A. phagocytophilum* variants within cattle herds and possible reservoir role for cattle. *Parasite Vector* **11**:163.
- Lee, N., D. Shum, A. König, H. Kim, J. Heo, S. Min, J. Lee, Y. Ko, I. Choi, H. Lee, C. Radu, T. Hoenen, J.-Y. Min, and M.P. Windisch. 2018. High-throughput drug screening using the Ebola virus transcription- and replication-competent virus-like particle system. *Antiviral Res* **158**:226-237.
- Li, C., S. Zhou, Y. Li, G. Li, Y. Ding, L. Li, J. Liu, L. Qu, T. Sonstegard, X. Huang, Y. Jiang, Y. Chen, B. Petersen, and X. Wang. 2018. Trio-based deep sequencing reveals a low incidence of off-target mutations in the offspring of genetically edited goats. *Front Genet* **9**:449.
- Li, Y., Q. Wang, S.M. Bergmann, W. Zeng, Y. Wang, Y. Ren, C. Shi, and D. Gu. 2018. Preparation of monoclonal antibodies against KHV and establishment of an antigen sandwich ELISA for KHV detection. *Microb Path* [Epub ahead of print; doi:10.1016/j.micpath.2018.12.034]
- Liermann, W., J. Frahm, A. Berk, and S. Dänicke. 2018. Investigations of relationships between alterations of the gastrointestinal tract caused by feeding variously processed feedstuffs and blood and immunological traits of broilers. *Poultry Sci* [Epub ahead of print; doi:10.3382/ps/pey347]
- Liu, C., O.Q. Chang, D.F. Zhang, K.B. Li, F. Wang, M.H. Lin, C.B. Shi, L. Jiang, Q. Wang, and S.M. Bergmann. 2018. *Aeromonas schuberti* as a cause of multi-organ necrosis in internal organs of Nile tilapia, *Oreochromis niloticus*. *J Fish Dis* **41**:1529-1538.
- Liu, H., H. Zhang, X. Wu, D. Ma, J. Wu, L. Wang, Y. Jiang, Y. Fei, C. Zhu, R. Tan, P. Jungblut, G. Pei, A. Dorhoi, Q. Yan, F. Zhang, R. Zheng, S. Liu, H. Liang, Z. Liu, H. Yang, J. Chen, P. Wang, T. Tang, W. Peng, Z. Hu, Z. Xu, X. Huang, J. Wang, H. Li, Y. Zhou, F. Liu, D. Yan, S.H.E. Kaufmann, C. Chen, Z. Mao, and B. Ge. 2018. Nuclear cGAS suppresses DNA repair and promotes tumorigenesis. *Nature* **563**:131-136.
- Longbottom, D., M. Sait, M. Livingstone, K. Laroucau, K. Sachse, S.R. Harris, N.R. Thomson, and H.M.B. Seth-Smith. 2018. Genomic evidence that the live *Chlamydia abortus* vaccine strain 1B is not attenuated and has the potential to cause disease. *Vaccine* **36**:3593-3598.

- Lopes, M.G., M.R. Solorio, H.S. Soares, G. Schares, A.Z. Hartley, P. Alcázar, F. Ferreira, M.C.G.O. Camargo, F. Gregori, and S.M. Gennari. 2018. *Neospora caninum*-specific antibodies in free-ranging white-lipped peccaries (*Tayassu pecari*) from the Peruvian Amazon: Detection of antibodies in serum and evaluation of indirect fluorescent antibody test with heterologous secondary antibody. *J Zoo Wildl Med* **49**:656-661.
- Lorenz, N., S. Dänicke, L. Edler, C. Gottschalk, E. Lassek, D. Marko, M. Rychlik, and A. Mally. 2018. A critical evaluation of health risk assessment of modified mycotoxins with a special focus on zearalenone. *Mycotoxin Res* [Epub ahead of print; doi: 10.1007/s12550-018-0328-z]
- Lyu, S., D. Arends, M.K. Nassar, A. Weigend, S. Weigend, R. Preisinger, and G.A. Brockmann. 2018. Reducing the interval of a growth QTL on chromosome 4 in laying hens. *Anim Genet* **49**:467-471.
- Maes, P., S.V. Alkhovsky, Y. Bào, M. Beer, M. Birkhead, T. Briese, M.J. Buchmeier, C.H. Calisher, R.N. Charrel, I.R. Choi, C.S. Clegg, J.C. de la Torre, E. Delwart, J.L. DeRisi, P.L. Di Bello, F. Di Serio, M. Digiario, V.V. Dolja, C. Drosten, T.Z. Druciarek, J. Du, H. Ebihara, T. Elbeaino, R.C. Gergerich, A.N. Gillis, J.-P.J. Gonzalez, A.-L. Haenni, J. Hepojoki, U. Hetzel, T. Hö, N. Hóng, R.K. Jain, P. Jansen van Vuren, Q. Jin, M.G. Jonson, S. Junglen, K.E. Keller, A. Kemp, A. Kipar, N.O. Kondov, E.V. Koonin, R. Kormelink, Y. Korzyukov, M. Krupovic, A.J. Lambert, A.G. Laney, M. LeBreton, I.S. Lukashevich, M. Marklewitz, W. Markotter, G.P. Martelli, R.R. Martin, N. Mielke-Ehret, H.-P. Mühlbach, B. Navarro, T.F.F. Ng, M.R. T. Nunes, G. Palacios, J.T. Paweńska, C.J. Peters, A. Plyusnin, S.R. Radoshitzky, V. Romanowski, P. Salmenperä, M.S. Salvato, H. Sanfaçon, T. Sasaya, C. Schmaljohn, B.S. Schneider, Y. Shirako, S. Siddell, T.A. Sironen, M.D. Stenglein, N. Storm, H. Sudini, R.B. Tesh, I.E. Tzanetakis, M. Uppala, O. Vapalahti, N. Vasilakis, P.J. Walker, G. Wáng, L. Wáng, Y. Wáng, T. Wèi, M.R. Wiley, Y.I. Wolf, N.D. Wolfe, Z. Wú, W. Xú, L. Yang, Z. Yāng, S.-D. Yeh, Y.-Z. Zhāng, Y. Zhèng, X. Zhou, C. Zhū, F. Zirkel, and J.H. Kuhn. 2018. Taxonomy of the family *Arenaviridae* and the order *Bunyavirales*: update 2018. *Arch Virol* **163**:2295-2310.
- Maksimov, P., W. Basso, J. Zerweck, M. Schutkowski, U. Reimer, A. Maksimov, F.J. Conraths, and G. Schares. 2018. Analysis of *Toxoplasma gondii* clonal type-specific antibody reactions in experimentally infected turkeys and chickens. *Int J Parasitol* **48**:845-856.
- Malchow, J., J. Berk, B. Puppe, and L. Schrader. 2018. Perches or grids? What do rearing chickens differing in growth performance prefer for roosting? *Poultry Sci* [Epub ahead of print; doi:10.3382/ps/pey320]
- Malkwitz, I., A. Berndt, A. Dausgies, and B. Bangoura. 2018. Characterisation of susceptibility of chicken macrophages to infection with *Toxoplasma gondii* of type II and III strains. *Exp Parasitol* **187**:22-29.
- Malomane, D.K., C. Reimer, S. Weigend, A. Weigend, A.R. Sharifi, and H. Simianer. 2018. Efficiency of different strategies to mitigate ascertainment bias when using SNP panels in diversity studies. *BMC Genomics* **19**:22.
- Marston, D.A., A.C. Banyard, L.M. McElhinney, C.M. Freuling, S. Finke, X. de Lamballerie, T. Müller, and A.R. Fooks. 2018. The lyssavirus host-specificity conundrum - rabies virus - the exception not the rule. *Curr Opin Virol* **28**:68-73.
- Martin, S., A.I. Chiramel, M.L. Schmidt, Y.-C. Chen, N. Whitt, A. Watt, E.C. Dunham, K. Shifflett, S. Traeger, A. Leske, E. Buehler, C. Martellaro, J. Brandt, L. Wendt, A. Müller, S. Peitsch, S.M. Best, J. Stech, S. Finke, A. Römer-Oberdörfer, A. Groseth, H. Feldmann, and T. Hoenen. 2018. A genome-wide siRNA screen identifies a druggable host pathway essential for the Ebola virus life cycle. *Genome Med* **10**:58.
- Martorelli, L., N. Garimano, G.A. Fiorentino, D.A. Vilte, S.G. Garbaccio, S.A. Barth, C. Menge, C. Ibarra, M.S. Palermo, and A. Cataldi. 2018. Efficacy of a recombinant Intimin, EspB and Shiga toxin 2B vaccine in calves experimentally challenged with *Escherichia coli* O157:H7. *Vaccine* **36**:3949-3959.

Mayer-Scholl, A., J.P. Teifke, N. Huber, E. Luge, N.S. Bier, K. Nöckler, and R.G. Ulrich. 2018. *Leptospira* spp. in Rodents and Shrews from Afghanistan. J Wildlife Dis [Epub ahead of print; doi:10.7559/2018-05-122]

McCowan, C., S. Cramer, A. Kocak, S. Shan, M. Fegan, D. Forshaw, D. Rubbenstroth, H. Chen, C. Holmes, J. Harper, M. Dearnley, J. Batovska, J. Bergfeld, C. Walker, and J. Wang. 2018. A novel group A rotavirus associated with acute illness and hepatic necrosis in pigeons (*Columba livia*), in Australia. PLoS one 13:e0203853.

McElhinney, L.M., D.A. Marston, E.I. Wise, C.M. Freuling, H. Bourhy, R. Zanoni, T. Moldal, E.A. Kooi, A. Neubauer-Juric, T. Nokireki, T. Müller, and A.R. Fooks. 2018. Molecular Epidemiology and Evolution of European Bat Lyssavirus 2. Int J Mol Sci 19:156.

Melzer, F., A. Raßbach, A. Köenig-Mozes, M.C. Elschner, H. Tomaso, and A. Busch. 2018. Draft Genome Sequence of *Taylorella equigenitalis* Strain 210217RC10635, Isolated from a Pony Stallion in Germany. Microbiology Resource Announcements 7:e01112-18.

Meseko, C., A. Globig, J. Ijomanta, T. Joannis, C. Nwosuh, D. Shamaki, T. Harder, D. Hoffmann, A. Pohlmann, M. Beer, T. Mettenleiter, and E. Starick. 2018. Evidence of exposure of domestic pigs to Highly Pathogenic Avian Influenza H5N1 in Nigeria. Sci Rep 8:5900.

Methner, U. 2018. Immunisation of chickens with live *Salmonella* vaccines - Role of booster vaccination. Vaccine 36:2973-2977.

Methner, U., S. Merbach, and M. Peters. 2018. *Salmonella enterica* subspecies *enterica* serovar Choleraesuis in a German wild boar population: occurrence and characterisation. Acta Vet Scand 60:65.

Methner, U., and U. Moog. 2018. Occurrence and characterisation of *Salmonella enterica* subspecies *diarizonae* serovar 61: k: 1, 5, (7) in sheep in the federal state of Thuringia, Germany. BMC Vet Res 14:401.

Meyer, B., and A. Groseth. 2018. Apoptosis during arenavirus infection: mechanisms and evasion strategies. Microbes Infect 20:65-80.

Michel, F., D. Fischer, M. Eiden, C. Fast, M. Reuschel, K. Müller, M. Rinder, S. Urbaniak, F. Brandes, R. Schwehn, R. Lühken, M.H. Groschup, and U. Ziegler. 2018. West Nile Virus and Usutu Virus Monitoring of Wild Birds in Germany. Int J Environ Res Public Health 15:171.

Michel, R., L. Junglas, S. Loch, C. Wylezich, K.-D. Müller, and B. Hauröder. 2018. Experimental co-infection of *Saccamoeba lacustris* with Mimivirus-like Giant virus and a small Satellite virus. Endocyt Cell Res 29:1-6.

Mielenz, M., M.W. Pfaffl, C. Schlumbohm, J. Harmeyer, and N. Parvizi. 2018. Growth Hormone Secretion Patterns in German Landrace (DL) Fetuses and Piglets Compared to DL Piglets with Inherited 1,25-Dihydroxyvitamin D3 Deficiency. Nutrients 10:617.

Mißbach, S., D. Aleksic, L. Blaschke, T. Hassemmer, K.J. Lee, M. Mansfeld, J. Hänske, J. Handler, and R. Kammerer. 2018. Alternative splicing after gene duplication drives CEACAM1-paralog diversification in the horse. BMC Evol Biol 18:32.

Moawad, A.A., H. Hotzel, H. Neubauer, R. Ehrlich, S. Monecke, H. Tomaso, H.M. Hafez, U. Roesler, and H. El-Adawy. 2018. Antimicrobial resistance in *Enterobacteriaceae* from healthy broilers in Egypt: emergence of colistin-resistant and extended-spectrum β -lactamase-producing *Escherichia coli*. Gut Pathog 10:39.

Monecke, S., P. Slickers, D. Gawlik, E. Müller, A. Reissig, A. Ruppelt-Lorz, S. Cortez de Jäckel, A.T. Feßler, M. Frank, H. Hotzel, K. Kadlec, L. Jatzwauk, I. Loncaric, S. Schwarz, K. Schlotter, A.

- Thürmer, S. Wendlandt, and R. Ehricht.** 2018. Variability of SCCmec elements in livestock-associated CC398 MRSA. *Vet Microbiol* **217**:36-46.
- Montag, J., B. Petersen, A.K. Flögel, E. Becker, A. Lucas-Hahn, G.J. Cost, C. Mühlfeld, T. Kraft, H. Niemann, and B. Brenner.** 2018. Successful *knock-in* of Hypertrophic Cardiomyopathy-mutation R723G into the *MYH7* gene mimics HCM pathology in pigs. *Sci Rep* **8**:4786.
- Moonens, K., Y. Hamway, M. Neddermann, M. Reschke, N. Tegtmeyer, T. Kruse, R. Kammerer, R. Mejias-Luque, B.B. Singer, S. Backert, M. Gerhard, and H. Remaut.** 2018. Helicobacter pylori adhesin HopQ disrupts trans dimerization in human CEACAMs. *EMBO J* **37**:e98665.
- Morovic, M., O. Østrup, F. Strejcek, M. Benc, M. Murin, K. Jedlickova, A. Bartkova, A. Lucas-Hahn, L. Pendovski, and J. Laurincik.** 2018. Maternally inherited rRNA triggers *de novo* nucleolus formation in porcine embryos. *Zygote* **26**:395-402.
- Mostafa, A., E.M. Abdelwhab, T.C. Mettenleiter, and S. Pleschka.** 2018. Zoonotic Potential of Influenza A Viruses: A Comprehensive Overview. *Viruses* **10**:497.
- Mrochen, D.M., D. Schulz, S. Fischer, K. Jeske, H. El Gohary, D. Reil, C. Imholt, P. Trübe, J. Suchomel, E. Tricaud, J. Jacob, M. Heroldová, B.M. Bröker, B. Strommenger, B. Walther, R.G. Ulrich, and S. Hotfreter.** 2018. Wild rodents and shrews are natural hosts of *Staphylococcus aureus*. *Int J Med Microbiol* **308**:590-597.
- Mroz, C., K.M. Schmidt, S. Reiche, M.H. Groschup, and M. Eiden.** 2018. Development of monoclonal antibodies to Rift Valley Fever Virus and their application in antigen detection and indirect immunofluorescence. *J Immunol Meth* **460**:36-44.
- Mubeen, H., I. Khan, M.H. Saleem, R. Akhtar, S. Ali, M. Saqib, A.U. Khan, and S. Umar.** 2018. Brucellosis in Mirpur, Azad Kashmir Pakistan: a livestock threat for neighboring zones. *Med Weter* **74**:449-451.
- Müller, C., R. Ulrich, K. Franzke, M. Müller, and B. Köllner.** 2018. Crude extracts of recombinant baculovirus expressing rabbit hemorrhagic disease virus 2 VLPs from both insect and rabbit cells protect rabbits from rabbit hemorrhagic disease caused by RHDV2. *Arch Virol* [Epub ahead of print; doi:10.1007/s00705-018-4032-2]
- Müller, T., and C.M. Freuling.** 2018. Rabies control in Europe: an overview of past, current and future strategies. *Rev Sci Tech Off Int Epiz* **37**:409-419.
- Müllerová, J., J. Elsterová, J. Černý, O. Ditrich, J. Žárský, L.E. Culler, H. Kampen, D. Walther, S.J. Coulson, D. Růžek, and L. Grubhoffer.** 2018. No indication of arthropod-vectored viruses in mosquitoes (Diptera: Culicidae) collected on Greenland and Svalbard. *Polar Biol* **41**:1581-1586.
- Muzyka, D., O. Rula, S. Tkachenko, N. Muzyka, S. Köthe, O. Pishchanskyi, B. Stegnyy, M. Pantin-Jackwood, and M. Beer.** 2018. Highly pathogenic and low pathogenic avian influenza H5 subtype viruses in wild birds in Ukraine. *Avian Dis* [Epub ahead of print; doi: 10.1637/11879-042718-ResNote.1]
- Naguib, M.M., and T. Harder.** 2018. Endemic situation of multiple avian influenza strains in poultry in Egypt: A continuing nightmare. *Zoonoses Publ Health* **65**:908-910.
- Niemann, L., P. Müller, J. Brauns, R. Nathaus, F. Schäkel, K. Kipschull, D. Höltig, M. Wendt, S. Schwarz, and K. Kadlec.** 2018. Antimicrobial susceptibility and genetic relatedness of respiratory tract pathogens in weaner pigs over a 12-month period. *Vet Microbiol* **219**:165-170.
- Nossol, C., P. Landgraf, S. Kahlert, M. Oster, B. Isermann, D.C. Dieterich, K. Wimmers, S. Dänicke, and H.-J. Rothkötter.** 2018. Deoxynivalenol Affects Cell Metabolism and Increases Protein Biosynthesis in Intestinal Porcine Epithelial Cells (IPEC-J2): DON Increases Protein Biosynthesis. *Toxins* **10**:464.

- Nurmoja, I., K. Mõtus, M. Kristian, T. Niine, K. Schulz, K. Depner, and A. Viltrop.** 2018. Epidemiological analysis of the 2015-2017 African swine fever outbreaks in Estonia. *Prev Vet Med* [Epub ahead of print; doi:10.1016/j.prevetmed.2018.10.001]
- Obiegala, A., and C. Silaghi.** 2018. *Candidatus* Neoehrlichia Mikurensis - Recent Insights and Future Perspectives on Clinical Cases, Vectors, and Reservoirs in Europe. *Curr Clin Microbiol Rep* 5:1-9.
- Oertel, P., A. Bergmann, S. Fischer, P. Trefz, A. Küntzel, P. Reinhold, H. Köhler, J.K. Schubert, and W. Miekisch.** 2018. Evaluation of needle trap micro extraction and solid phase micro extraction: obtaining comprehensive information on volatile emissions from in vitro cultures. *Biomed Chromatogr* 32:e4285.
- Oertel, P., A. Küntzel, P. Reinhold, H. Köhler, J. Schubert, J. Kolb, and W. Miekisch.** 2018. Continuous real-time breath analysis in ruminants: Effect of eructation on exhaled VOC profiles. *J Breath Res* 12:036014.
- Oliveira, S., J. Aizawa, H. Sousa Soares, D. Pontes Chiebao, M. Botelho de Castro, A.S. Hora, M. Gomes Lopes, G. Schares, M.C. Jenkins, O.C.H. Kwok, R.A. Dias, S.M. Gennari, J.P. Dubey, and H.F.J. Pena.** 2018. Experimental *Neospora caninum* infection in chickens (*Gallus gallus domesticus*) with oocysts and tachyzoites of two recent isolates reveals resistance to infection. *Int J Parasitol* 48:117-123.
- Oluwayelu, D., K. Wernike, A. Adebisi, S. Cadmus, and M. Beer.** 2018. Neutralizing antibodies against Simbu serogroup viruses in cattle and sheep, Nigeria, 2012-2014. *BMC Vet Res* 14:277.
- Ortmann, S., A. Kretzschmar, C. Kaiser, T. Lindner, C. Freuling, C. Kaiser, P. Schuster, T. Müller, and A. Vos.** 2018. In vivo safety studies with SPBN GASGAS in the frame of oral vaccination of foxes and raccoon dogs against rabies. *Front Vet Sci* 5:91.
- Ortmann, S., A. Vos, A. Kretzschmar, N. Walther, C. Kaiser, C. Freuling, I. Lojkic, and T. Müller.** 2018. Safety studies with the oral rabies virus vaccine strain SPBN GASGAS in the small Indian mongoose (*Herpestes auro-punctatus*). *BMC Vet Res* 14:90.
- Osman, N.A., A. Röder, K. Giesow, and G.M. Keil.** 2018. Genetic fusion of peste des petits ruminants virus haemagglutinin and fusion protein domains to the amino terminal subunit of glycoprotein B of bovine herpesvirus 1 interferes with transport and function of gB for BHV-1 infectious replication. *Virus Res* 258:9-18.
- Osman, N.A., J. Veits, and G.M. Keil.** 2018. Molecular and genetic characterization of peste des petits ruminants virus Kurdistan 2011 strain based on the haemagglutinin and fusion protein genes sequences. *Small Ruminant Res* 167:82-86.
- Paál, D., F. Strejček, E. Tvrdá, G. Formicki, S. Klein, D. Rath, and P. Massanyi.** 2018. The in Vitro Effect of Taurine on Boar Spermatozoa Quality. *Acta Univ Agric Silvicae Mendelianae Brun* 66:131-137.
- Pauker, V.I., B.R. Thoma, G. Grass, P. Bleichert, M. Hanczaruk, L. Zöller, and S. Zange.** 2018. Improved discrimination of *Bacillus anthracis* from Closely Related Species in the *Bacillus cereus sensu lato* Group based on MALDI-TOF Mass Spectrometry. *J Clin Microbiol* 56:e01900-17.
- Paulick, M., J. Winkler, S. Kersten, D. Schatzmayr, J. Frahm, J. Kluess, H.E. Schwartz-Zimmermann, and S. Dänicke.** 2018. Effects of oral exposure to sodium sulphite-treated deoxynivalenol (DON)-contaminated maize on performance and plasma concentrations of toxins and metabolites in piglets. *Arch Anim Nutr* 72:42-57.
- Petersen, H., A. Mostafa, M.A. Tantawy, A.A. Iqbal, D. Hoffmann, A. Tallam, B. Selvakumar, F. Pessler, M. Beer, S. Rautenschlein, and S. Pleschka.** 2018. NS Segment of a 1918 Influenza A Virus-Descendent Enhances Replication of H1N1pdm09 and Virus-Induced Cellular Immune Response in Mammalian and Avian Systems. *Front Microbiol* 9:526.

- Petrov, A., J.H. Forth, L. Zani, M. Beer, and S. Blome.** 2018. No evidence for long-term carrier status of pigs after African swine fever virus infection. *Transbound Emerg Dis* **65**:1318-1328.
- Pfaff, F., T. Müller, C.M. Freuling, C. Fehlner-Gardiner, S. Nadin-Davis, E. Robardet, F. Cliquet, V. Vuta, P. Hostnik, T.C. Mettenleiter, M. Beer, and D. Höper.** 2018. In-depth genome analyses of viruses from vaccine-derived rabies cases and corresponding live-attenuated oral rabies vaccines. *Vaccine* [Epub ahead of print; doi:10.1016/j.vaccine.2018.01.083]
- Phi van, V.D., E.T. Krause, and L. Phi van.** 2018. Modulation of Fear and Arousal Behavior by Serotonin Transporter (5-HTT) Genotypes in Newly Hatched Chickens. *Front Behav Neurosci* **12**:284.
- Pietsch, M., A. Irrgang, N. Roschanski, G.B. Michael, A. Hamprecht, H. Rieber, A. Käsbohrer, S. Schwarz, U. Rösler, L. Kreienbrock, Y. Pfeifer, S. Fuchs, G. Werner, and RESET Study Group.** 2018. Whole genome analyses of CMY-2-producing *Escherichia coli* isolates from humans, animals and food in Germany. *BMC Genomics* **19**:601.
- Pohlmann, A., E. Starick, C. Grund, D. Höper, G. Strebelow, A. Globig, C. Staubach, F.J. Conraths, T.C. Mettenleiter, T. Harder, and M. Beer.** 2018. Swarm incursions of reassortants of highly pathogenic avian influenza virus strains H5N8 and H5N5, clade 2.3.4.4b, Germany, winter 2016/17. *Sci Rep* **8**:15.
- Prkno, A., M. Kaiser, D. Goerigk, M. Pfeffer, T.W. Vahlenkamp, D. Hoffmann, M. Beer, and A. Starke.** 2018. Klinisches Erscheinungsbild der Kuhpockenvirusinfektion bei Neuweltkameliden. *Tierärztl Prax G* **46**:50-56.
- Prüter, H., G.A. Czirják, S. Twietmeyer, T. Harder, C. Grund, K. Mühldorfer, and D. Lüscho.** 2018. Sane and sound: a serologic and molecular survey for selected infectious agents in neozootic Egyptian geese (*Alopochen aegyptiacus*) in Germany. *Eur J Wildl Res* **64**:71.
- Rabold, D., W. Espelage, M. Abu Sin, T. Eckmanns, A. Schneeberg, H. Neubauer, N. Möbius, K. Hille, L.H. Wieler, C. Seyboldt, and A. Lübke-Becker.** 2018. The zoonotic potential of *Clostridium difficile* from small companion animals and their owners. *PLoS one* **13**:e0193411.
- Radomski, N., A. Rebbig, R.M. Leonhardt, and M.R. Knittler.** 2018. Xenophagic pathways and their bacterial subversion in cellular self-defense - πάντα πει - everything is in flux. *Int J Med Microbiol* **308**:185-196.
- Ramadan, H.H., C.R. Jackson, S.A. Taha, A.A. Moawad, J.B. Barrett, and T.A. Woodley.** 2018. Contribution of Healthy Chickens to Antimicrobial-Resistant *Escherichia coli* Associated with Human Extraintestinal Infections in Egypt. *Vector-Borne Zoonotic Dis* **18**:408-416.
- Rasmussen, T.B., M.B. Boniotti, A. Papetti, B. Grasland, J.-P. Frossard, A. Dastjerdi, M. Hulst, D. Hanke, A. Pohlmann, S. Blome, W.H.M. van der Poel, F. Steinbach, Y. Blanchard, A. Lavazza, A. Bøtner, and G.J. Belsham.** 2018. Full-length genome sequences of porcine epidemic diarrhoea virus strain CV777; Use of NGS to analyse genomic and sub-genomic RNAs. *PLoS one* **13**:e0193682.
- Rebbig, A., S. Matthiesen, A. Lührmann, and M.R. Knittler.** 2018. Flow cytometry as a new complementary tool to study *Coxiella burnetii* in cell cultures. *J Microbiol Meth* **151**:39-43.
- Rehman, A., F.J. Conraths, C. Sauter-Louis, J. Krücken, and A.M. Nijhof.** 2018. Epidemiology of tick-borne pathogens in the semi-arid and the arid agro-ecological zones of Punjab province, Pakistan. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.13059]
- Reil, D., F. Binder, J. Freise, C. Imholt, K. Beyrer, J. Jacob, D.H. Krüger, J. Hofmann, J. Dreesman, and R.G. Ulrich.** 2018. Hantaviren in Deutschland: Aktuelle Erkenntnisse zu Erreger, Reservoir, Verbreitung und Prognosemodellen. *Berl Münch Tierärztl Wschr* [Epub ahead of print; doi:10.2376/0005-9366-18003]

- Reimer, C., C.-J. Rubin, A.R. Sharifi, N.-T. Ha, S. Weigend, K.-H. Waldmann, O. Distl, S.D. Pant, M. Fredholm, M. Schlather, and H. Simianer. 2018. Analysis of porcine body size variation using re-sequencing data of miniature and large pigs. *BMC Genomics* **19**:687.
- Reinhold, P., H. Köhler, and E. Liebler-Tenorio. 2018. Versuchstierkunde bei Nutztieren: Einblicke in Modelle für respiratorische Erkrankungen und Infektionen. *Berl Münch Tierärztl Wschr* **131**:417-443.
- Reinhold, P., C. Menge, M. Ladwig-Wiegard, and C. Thöne-Reineke. 2018. Die zunehmende Bedeutung von Großtiermodellen in der biomedizinischen Forschung - eine Übersicht. *Berl Münch Tierärztl Wschr* [Epub ahead of print; doi:10.2376/0005-9366-17084]
- Richert-Pöggeler, K.R., K. Franzke, K. Hipp, and R. Kleespies. 2018. Electron microscopy methods for virus diagnosis and high resolution analysis of viruses. *Front Microbiol* [Epub ahead of print; doi:10.3389/fmicb.2018.03255]
- Rohani, M., B. Mohsenpour, A. Ghasemi, S. Esmaeili, M. Karimi, H. Neubauer, H. Tomaso, and E. Mostafavi. 2018. A case report of human tularemia from Iran. *Iranian J Microbiol* **10**:250-253.
- Rojas, M. del C., M. Fort, S. Bettermann, C. Entrocassi, S.R. Costamagna, K. Sachse, and M.R. Fermepin. 2018. Detección de *Chlamydia abortus* en pérdidas reproductivas de bovinos en la provincia de La Pampa, Argentina - Detection of *Chlamydia abortus* in bovine reproductive losses in the province of La Pampa, Argentina. *Rev Argent Microbiol* **50**:269-274.
- Romette, J.L., C.M. Prat, E.A. Gould, X. de Lamballerie, R. Charrel, B. Coutard, A.R. Fooks, M. Bardsley, M. Carroll, C. Drosten, J.F. Drexler, S. Günther, B. Klempa, D. Pinschewer, T. Klimkait, T. Avsic-Zupanc, M.R. Capobianchi, A. Dicaro, G. Ippolito, A. Nitsche, M. Koopmans, C. Reusken, A. Gorbalenya, H. Raoul, H. Bourhy, T. Mettenleiter, S. Reiche, C. Batten, C. Sabeta, J.T. Paweska, M. Eropkin, V. Zverev, Z. Hu, S. Mac Cullough, A. Mirazimi, F. Pradel, and P. Lieutaud. 2018. The European Virus Archive goes global: A growing resource for research. *Antiviral Res* **158**:127-134.
- Rosà, R., V. Andreo, V. Tagliapietra, I. Baráková, D. Arnoldi, H.C. Hauffe, M. Manica, F. Rosso, L. Blaňarová, M. Bona, M. Derdáková, Z. Hamšíková, M. Kazimírová, J. Kraljik, E. Kocianová, L. Mahříková, L. Minichová, L. Mořanský, M. Slovák, M. Stanko, E. Špitalská, E. Ducheyne, M. Neteler, Z. Hubálek, I. Rudolf, K. Venclíková, C. Silaghi, E. Overzier, R. Farkas, G. Földvári, S. Hornok, N. Takács, and A. Rizzoli. 2018. Effect of Climate and Land Use on the Spatio-Temporal Variability of Tick-Borne Bacteria in Europe. *Int J Environ Res Publ Health* **15**:732.
- Rubbenstroth, D., E. Peus, E. Schramm, D. Kottmann, H. Bartels, C. McCowan, C. Schulze, V. Akimkin, N. Fischer, C. Wylezich, A. Hlínak, A. Spadinger, E. Großmann, H. Petersen, A. Grundhoff, S. Rautenschlein, and L. Teske. 2018. Identification of a novel clade of group A rotaviruses in fatally diseased domestic pigeons in Europe. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.13065]
- Rudolf, I., H. Blažejová, P. Straková, O. Šebesta, J. Peško, J. Mendel, S. Šikutová, Z. Hubálek, H. Kampen, and F. Schaffner. 2018. The invasive Asian tiger mosquito *Aedes albopictus* (Diptera: Culicidae) in the Czech Republic: Repetitive introduction events highlight the need for extended entomological surveillance. *Acta Trop* **185**:239-241.
- Rudolph, G., S. Hörtenhuber, D. Bochicchio, G. Butler, R. Brandhofer, S. Dippel, J.Y. Dourmad, S. Edwards, B. Früh, M. Meier, A. Prunier, C. Winckler, W. Zollitsch, and C. Leeb. 2019. Effect of Three Husbandry Systems on Environmental Impact of Organic Pigs. *Sustainability* **10**:3796.
- Ryll, R., M. Eiden, E. Heuser, M. Weinhardt, M. Ziege, D. Höper, M.H. Groschup, G. Heckel, R. Johne, and R.G. Ulrich. 2018. Hepatitis E virus in feral rabbits along a rural-urban transect in Central Germany. *Infect Genet Evol* **61**:155-159.
- Sabino-Pinto, J., E.T. Krause, M.C. Bletz, A. Martel, F. Pasmans, S. Steinfartz, and M. Vences. 2018. Detectability vs. time and costs in pooled DNA extraction of cutaneous swabs: a study on the amphibian chytrid fungi. *Amphibia-Reptilia* [Epub ahead of print; doi: 10.1163/15685381-20181011]

- Sachse, K., K.S. Rahman, C. Schnee, E. Müller, M. Peisker, T. Schumacher, E. Schubert, A. Ruetzger, B. Kaltenboeck, and R. Ehrlich. 2018. A novel synthetic peptide microarray assay detects *Chlamydia* species-specific antibodies in animal and human sera. *Sci Rep* **8**:4701.
- Sadri, H., B. Saremi, S. Dänicke, J. Rehage, M. Mielenz, A. Hosseini, and H. Sauerwein. 2018. Lactation-related changes in tissue expression of *PEDF* in dairy cows. *Domest Anim Endocrin* **64**:93-101.
- Salaheldin, A., H.S. Abd El-Hamid, A.R. Elbestawy, J. Veits, H.M. Hafez, T.C. Mettenleiter, and E.-S.M. Abd El-Whab. 2018. Multiple Introductions of Influenza A(H5N8) Virus into Poultry, Egypt, 2017. *Emerg Infect Dis* **24**:943-946.
- Salaheldin, A.H., E. Kasbohm, H. El-Naggar, R. Ulrich, D. Scheibner, M. Gischke, M.K. Hassan, A.A. Arafa, W. Hassan, H.S. Abd El-Hamid, H.M. Hafez, J. Veits, T.C. Mettenleiter, and E.M. Abdelwhab. 2018. Potential biological and climatic factors that influence the incidence and persistence of highly pathogenic H5N1 avian influenza virus in Egypt. *Front Microbiol* **9**:528.
- Sanchez, E., S. Gippner, M. Vences, K. Preißler, I.J. Hermanski, B.A. Caspers, E.T. Krause, S. Steinfartz, and F.-W. Kastrup. 2018. Automatic quantification of colour proportions in dorsal black-and-yellow coloured amphibians, tested on the fire salamander (*Salamandra salamandra*). *Herpetol Notes* **11**:73-76.
- Sas, M.A., L. Comtet, F. Donnet, M. Mertens, Z. Vatansever, N. Tordo, P. Pourquier, and M.H. Groschup. 2018. A novel double-antigen sandwich ELISA for the species-independent detection of Crimean-Congo hemorrhagic fever virus-specific antibodies. *Antiviral Res* **151**:24-26.
- Sas, M.A., A. Vina-Rodriguez, M. Mertens, M. Eiden, P. Emmerich, S.C. Chaintoutis, A. Mirazimi, and M.H. Groschup. 2018. A one-step multiplex real-time RT-PCR for the universal detection of all currently known CCHFV genotypes. *J Virol Methods* **255**:38-43.
- Schäfer, M.O. 2018. Die Bekämpfung des Kleinen Beutenkäfers, *Aethina tumida*, in Deutschland. *Berl Münch Tierärztl Wschr* [Epub ahead of print; doi:10.2376/0005-9366-18010]
- Schäfers, S., M. Bulang, U. Meyer, A. Lindwedel, L. Hüther, and S. Dänicke. 2018. Suitability of n-alkanes and chromium (III) oxide as digestibility markers in calves at the end of the milk feeding period supplemented with a prebiotic. *Anim Nutr* **4**:84-89.
- Schäfers, S., U. Meyer, D. von Soosten, L. Hüther, C. Drong, K. Eder, E. Most, A. Tröscher, W. Pelletier, A. Zeyner, and S. Dänicke. 2018. Influence of conjugated linoleic acids and vitamin E on milk fatty acid composition and concentrations of vitamin A and α -tocopherol in blood and milk of dairy cows. *J Anim Physiol Anim Nutr* **102**:e431-e441.
- Schäfers, S., U. Meyer, D. von Soosten, B. Krey, L. Hüther, A. Tröscher, W. Pelletier, H. Kienberger, M. Rychlik, and S. Dänicke. 2018. Influence of vitamin E on organic matter fermentation, ruminal protein and fatty acid metabolism, protozoa concentrations and transfer of fatty acids. *J Anim Physiol Anim Nutr* **102**:1111-1119.
- Schäfers, S., D. von Soosten, U. Meyer, C. Drong, J. Frahm, A. Tröscher, W. Pelletier, H. Sauerwein, and S. Dänicke. 2018. Influence of conjugated linoleic acids and vitamin E on biochemical, hematological, and immunological variables of dairy cows during the transition period. *J Dairy Sci* **101**:1585-1600.
- Schären, M., J. Frahm, S. Kersten, U. Meyer, J. Hummel, G. Breves, and S. Dänicke. 2018. Interrelations between the rumen microbiota and production, behavioral, rumen-fermentation, metabolic, and immunological attributes of dairy cows. *J Dairy Sci* **101**:4615-4637.
- Schares, G., C. Jutras, A. Bärwald, W. Basso, A. Maksimov, S. Schares, M. Tuschy, F.J. Conraths, and V. Brodeur. 2018. *Besnoitia tarandi* in Canadian woodland caribou - Isolation, characterization and suitability for serological tests. *Int J Parasitol Parasit Wildl* [Epub ahead of print; doi:10.1016/j.ijppaw.2018.11.005]

- Schares, G., M. Koethe, B. Bangoura, A.-C. Geuthner, F. Randau, M. Ludewig, P. Maksimov, M. Sens, A. Bärwald, F.J. Conraths, I. Villena, D. Aubert, M. Opsteegh, and J. van der Giessen. 2018. *Toxoplasma gondii* infections in chickens - performance of various antibody detection techniques in serum and meat juice relative to bioassay and DNA detection methods. *Int J Parasitol* **48**:751-762.
- Schertz, H., S. Dänicke, J. Frahm, D. Schatzmayr, I. Dohnal, G. Bichl, H.E. Schwartz-Zimmermann, S. Colicchia, G. Breves, J.P. Teifke, and J. Kluess. 2018. Biomarker Evaluation and Toxic Effects of an Acute Oral and Systemic Fumonisin Exposure of Pigs with A Special Focus on Dietary Fumonisin Esterase Supplementation. *Toxins* **10**:296.
- Schertz, H., J. Kluess, J. Frahm, D. Schatzmayr, I. Dohnal, G. Bichl, H. Schwartz-Zimmermann, G. Breves, and S. Dänicke. 2018. Oral and Intravenous Fumonisin Exposure in Pigs - A Single-Dose Treatment Experiment Evaluating Toxikokinetics and Detoxification. *Toxins* **10**:150.
- Scheuch, D.E., M. Schäfer, M. Eiden, E.C. Heym, U. Ziegler, D. Walther, J. Schmidt-Chanasit, M. Keller, M.H. Groschup, and H. Kampen. 2018. Detection of Usutu, Sindbis, and Batai Viruses in Mosquitoes (Diptera: Culicidae) Collected in Germany, 2011-2016. *Viruses* **10**:389.
- Schlottau, K., S. Fereidouni, M. Beer, and B. Hoffmann. 2018. Molecular identification and characterization of nonprimate hepaciviruses in equines. *Arch Virol* [Epub ahead of print; doi:10.1007/s00705-018-4077-2]
- Schlottau, K., L. Forth, K. Angstwurm, D. Höper, D. Zecher, F. Liesche, B. Hoffmann, V. Kegel, D. Seehofer, S. Platen, B. Salzberger, U.G. Liebert, H.-H. Niller, B. Schmidt, K. Matiasek, M.J. Riemenschneider, C. Brochhausen, B. Banas, L. Renders, P. Moog, S. Wunderlich, C.L. Seifert, A. Barreiros, A. Rahmel, J. Weiss, D. Tappe, C. Herden, J. Schmidt-Chanasit, M. Schwemmle, D. Rubbenstroth, J. Schlegel, C. Pietsch, D. Hoffmann, J. Jantsch, and M. Beer. 2018. Fatal Encephalitic Borna Disease Virus 1 in Solid-Organ Transplant Recipients. *New Engl J Med* **379**:1377-1379.
- Schlottau, K., K. Wernike, L. Forth, M. Holsteg, D. Höper, M. Beer, and B. Hoffmann. 2018. Presence of two different bovine hepacivirus clusters in Germany. *Transbound Emerg Dis* **65**:1705-1711.
- Schmidt, M.L., B.A. Tews, A. Groseth, and T. Hoenen. 2018. Generation and Optimization of a Green Fluorescent Protein-Expressing Transcription and Replication-Competent Virus-Like Particle System for Ebola Virus. *J Infect Dis* **218**:S360-S364.
- Schmidt, N., S.A. Barth, J. Frahm, U. Meyer, S. Dänicke, L. Geue, and C. Menge. 2018. Decreased STEC shedding by cattle following passive and active vaccination based on recombinant *Escherichia coli* Shiga toxoids. *Vet Res* **49**:28.
- Schmidt, N., T. Luhmann, L. Hüther, U. Meyer, S.A. Barth, L. Geue, C. Menge, J. Frahm, and S. Dänicke. 2018. Effect of vitamin E supplementation in milk replacer and Shiga toxoid vaccination on serum α -tocopherol, performance, haematology and blood chemistry in male Holstein calves. *J Anim Physiol Anim Nutr* **102**:1167-1180.
- Schmidtke, D., C. Lempp, M. Dubicanac, U. Radespiel, E. Zimmermann, W. Baumgärtner, S. Kästner, M. Meier, A. Balkema-Buschmann, R.A. Harris, M. Raveendran, D.M. Muzny, K.C. Worley, J. Rogers. 2018. Spontaneous Spongiform Brainstem Degeneration in a Young Mouse Lemur (*Microcebus murinus*) with Conspicuous Behavioral, Motor, Growth, and Ocular Pathologies. *Comparative Med* **68**:489-495.
- Schmitz, R., K. Schnabel, D. von Soosten, U. Meyer, L. Hüther, H. Spiekers, J. Rehage, and S. Dänicke. 2018. Changes of ruminal pH, rumination activity and feeding behaviour during early lactation as affected by different energy and fibre concentrations of roughage in pluriparous dairy cows. *Arch Anim Nutr* **72**:458-477.

- Schmitz, R., K. Schnabel, D. von Soosten, U. Meyer, H. Spiekers, J. Rehage, and S. Dänicke. 2018. The effects of energy concentration in roughage and allowance of concentrates on performance, health and energy efficiency of pluriparous dairy cows during early lactation. *Arch Anim Nutr* **72**:100-120.
- Schneider, H., D. Fischer, K. Failing, C. Ehling, S. Meinecke-Tillmann, A. Wehrend, and M. Lierz. 2018. Investigations on a cryopreservation protocol for long-term storage of psittacine spermatozoa using cockatiel semen as an example. *Theriogenology* **110**:8-17.
- Schröder, L., S. Klafack, S.M. Bergmann, D. Fichtner, Y. Jin, P.-Y. Lee, D. Höper, T.C. Mettenleiter, and W. Fuchs. 2018. Generation of a potential koi herpesvirus live vaccine by simultaneous deletion of the viral thymidine kinase and dUTPase genes. *J Gen Virol* [Epub ahead of print; doi:10.1099/jgv.0.001148]
- Schröder, L., S. Klafack, S.M. Bergmann, P.-Y.A. Lee, K. Franzke, D. Höper, T.C. Mettenleiter, and W. Fuchs. 2018. Characterization of gene deletion mutants of *Cyprinid herpesvirus 3* (koi herpesvirus) lacking the immunogenic envelope glycoproteins pORF25, pORF65, pORF148 and pORF149. *Virus Res* [Epub ahead of print; doi:10.1016/j.virusres.2018.12.004]
- Schubbert, A., and L. Schrader. 2018. Tierwohl messen in der landwirtschaftlichen Praxis. *Prakt Tierarzt* **99**:1173-1186.
- Schulz, C., C. Fast, K. Schlottau, B. Hoffmann, and M. Beer. 2018. Neglected Hosts of Small Ruminant Morbillivirus. *Emerg Infect Dis* **24**:2334-2337.
- Schulz, C., C. Sailleau, E. Bréard, J. Flannery, C. Viarouge, S. Zientara, M. Beer, C. Batten, and B. Hoffmann. 2018. Experimental infection of sheep, goats and cattle with a bluetongue virus serotype 4 field strain from Bulgaria, 2014. *Transbound Emerg Dis* **65**:e243-e250.
- Schwarz, S., A.T. Feßler, I. Loncaric, C. Wu, K. Kadlec, Y. Wang, and J. Shen. 2018. Antimicrobial Resistance among Staphylococci of Animal Origin. *Microbiology Spectrum* **6**(4): ARBA-0010-2017.
- Selokar, N.I. 2018. CRISPR-Cas: the molecular scissors for genetic disease surgeries? *Curr Sci* **115**:383-385.
- Shima, K., M. Wanker, R.J. Skilton, L.T. Cutcliffe, C. Schnee, T.A. Kohl, S. Niemann, J. Geijo, M. Klinger, P. Timms, T. Rattei, K. Sachse, I.N. Clarke, and J. Rupp. 2018. The Genetic Transformation of *Chlamydia pneumoniae*. *mSphere* **3**:e00412-18.
- Shwab, E.K., P. Saraf, X.-Q. Zhu, D.-H. Zhou, B.M. McFerrin, D. Ajzenberg, G. Schares, K. Hammond-Aryee, P. van Helden, S.A. Higgins, R.W. Gerhold, B.M. Rosenthal, X. Zhao, J.P. Dubey, and C. Su. 2018. Human impact on the diversity and virulence of the ubiquitous zoonotic parasite *Toxoplasma gondii*. *Proc Natl Acad Sci USA* **115**:E6956-E6963.
- Sieber, P., K. Voigt, P. Kämmer, S. Brunke, S. Schuster, and J. Linde. 2018. Comparative study on alternative splicing in human fungal pathogens suggests its involvement during host invasion. *Front Microbiol* **9**:2313.
- Silaghi, C., M. Nieder, C. Sauter-Louis, G. Knubben-Schweizer, K. Pfister, and M. Pfeffer. 2018. Epidemiology, genetic variants and clinical course of natural infections with *Anaplasma phagocytophilum* in a dairy cattle herd. *Parasite Vector* **11**:20.
- Simianavicius, M., K. Juskaite, A. Verbickaite, M. Jasiulionis, P.L. Tamosiunas, R. Petraityte-Burneikiene, A. Zvirbliene, R.G. Ulrich, and I. Kucinskaite-Kodze. 2018. Detection of rat hepatitis E virus, but not human pathogenic hepatitis E virus genotype 1-4 infections in wild rats from Lithuania. *Vet Microbiol* **221**:129-133.
- Simanavicius, M., P.L. Tamosiunas, R. Petraityte-Burneikiene, R. Johne, R.G. Ulrich, A. Zvirbliene, and I. Kucinskaite-Kodze. 2018. Generation in yeast and antigenic characterization of hepatitis E virus capsid protein virus-like particles. *Appl Microbiol Biotechnol* **102**:185-198.

Smreczak, M., A. Orłowska, A. Marzec, P. Trębas, T. Müller, C.M. Freuling, and J.F. Żmudziński. Bokeloh bat lyssavirus isolation in a Natterer's bat, Poland. *Zoonoses Publ Health* **65**:1015-1019.

Sobotta, K., K. Hillarius, P.H. Jiménez, K. Kerner, C. Heydel, and C. Menge. 2017. Interaction of *Coxiella burnetii* Strains of Different Sources and Genotypes with Bovine and Human Monocyte-Derived Macrophages. *Front Cell Infect Microbiol* **7**:543.

Sodoma, E., M. Altmann, S. Mitterhuemer, P. Moebius, and M. Duenser. 2018. First comprehensive study on molecular diversity of Austrian *Mycobacterium avium* subspecies *paratuberculosis* isolates from domestic and wild ruminants. *Berl Münch Tierärztl Wschr* **131**:2-11.

Soleto, I., U. Fischer, C. Tafalla, and A.G. Granja. 2018. Identification of a Potential Common Ancestor for Mammalian Cross-Presenting Dendritic Cells in Teleost Respiratory Surfaces. *Front Immunol* **9**:59.

Spahr, C., T. Knauf-Witzens, L. Dähnert, M. Enders, M. Müller, R. Johne, and R.G. Ulrich. 2018. Detection of HEV-specific antibodies in four non-human primate species, including great apes, from different zoos in Germany. *Epidemiol Infect* **146**:119-124.

Spahr, C., T. Knauf-Witzens, T. Vahlenkamp, R.G. Ulrich, and R. Johne. 2018. Hepatitis E virus and related viruses in wild, domestic and zoo animals: A review. *Zoonoses Publ Health* **65**:11-29.

Springer, K., S. Reuter, M. Knüpfer, L. Schmauder, P.-A. Sängler, A. Felsl, and T.M. Fuchs. 2018. Activity of a holin-endolysin system in the insecticidal pathogenicity island of *Yersinia enterocolitica*. *J Bacteriol* **200**:e00180-18.

Springer, K., P.-A. Sängler, C. Moritz, A. Felsl, T. Rattei, and T.M. Fuchs. 2018. Insecticidal toxicity of *Yersinia* species involves the novel enterotoxin YacT. *Front Cell Microbiol* **8**:392.

Stalb, S., S.A. Barth, K. Sobotta, E. Liebler-Tenorio, L. Geue, and C. Menge. 2018. Pro-inflammatory capacity of *Escherichia coli* O104:H4 outbreak strain during colonization of intestinal epithelial cells from human and cattle. *Int J Med Microbiol* **308**:899-911.

Šterbenc, N., J.M. Morrell, M. Kosec, D. Rath, S. Klein, and P. Klinc. 2018. Single layer colloid centrifugation technique improves motility, viability and chromatin integrity of ram spermatozoa after thawing. *Cryobiology* [Epub ahead of print; doi:10.1016/j.cryobiol.2018.12.001]

Subudhi, S., M. Dakouo, A. Sloan, D.R. Stein, A. Grolla, S. Jones, A. Dibernardo, K. Rosenke, M. Sas, A. Traore, R. Lindsay, M.H. Groschup, V. Misra, H. Feldmann, N. Sogoba, D. Safronetz, and M. Niang. 2018. Seroprevalence of Rift Valley Fever Virus Antibodies in Cattle in Mali, 2005-2014. *Am J Trop Med Hyg* [Epub ahead of print; doi:10.4269/ajtmh.17-0841]

Suu-Ire, R., L. Begeman, A.C. Banyard, A.C. Breed, C. Drosten, E. Eggerbauer, C.M. Freuling, L. Gibson, H. Goharriz, D.L. Horton, D. Jennings, I.V. Kuzmin, D. Marston, Y. Ntiamoa-Baidu, S. Riesle Sbarbaro, D. Selden, E.L. Wise, T. Kuiken, A.R. Fooks, T. Müller, J.L.N. Wood, and A.A. Cunningham. 2018. Pathogenesis of bat rabies in a natural reservoir: Comparative susceptibility of the straw-colored fruit bat (*Eidolon helvum*) to three strains of Lagos bat virus. *PLoS Negl Trop Dis* **12**:e0006311.

Tappe, D., K. Schlottau, D. Cadar, B. Hoffmann, L. Balke, B. Bewig, D. Hoffmann, P. Eisermann, H. Fickenscher, A. Krumbholz, H. Laufs, M. Huhndorf, M. Rosenthal, W. Schulz-Schaeffer, G. Iser, S.-K. Hotop, M. Brönstrup, A. Ott, J. Schmidt-Chanasit, and M. Beer. 2018. Occupation-Associated Fatal Limbic Encephalitis Caused by Variegated Squirrel Bornavirus 1, Germany, 2013. *Emerg Infect Dis* **24**:978-987.

Tarko, A., A. Štochmal'ova, S. Hrabovska, A. Vachanova, A.H. Harrath, R. Grossman, and A.V. Sirotkin. 2018. Can xylene and quercetin directly affect basic ovarian cell functions? *Res Vet Sci* **119**:308-312.

Tesch, T., E. Bannert, J. Kluess, J. Frahm, L. Hüther, S. Kersten, G. Breves, L. Renner, S. Kahlert, H.-J. Rothkötter, and S. Dänicke. 2018. Relationships between body temperatures and inflammation indicators under physiological and pathophysiological conditions in pigs exposed to systemic lipopolysaccharide and dietary deoxynivalenol. *J Anim Physiol Anim Nutr* 102:241-251.

Teumer, A., L. Chaker, S. Groeneweg, Y. Li, C. Di Munno, C. Barbieri, U.T. Schultheiss, M. Traglia, T.S. Ahluwalia, M. Akiyama, E.V.R. Appel, D.E. Arking, A. Arnold, A. Astrup, M. Beekman, J.P. Beilby, S. Bekaert, E. Boerwinkle, S.J. Brown, M. De Buyzere, P.J. Campbell, G. Ceresini, C. Cerqueira, F. Cucca, I.J. Deary, J. Deelen, K.U. Eckardt, A.B. Ekici, J.G. Eriksson, L. Ferrucci, T. Fiers, E. Fiorillo, I. Ford, C.S. Fox, C. Fuchsberger, T.E. Galesloot, C. Gieger, M. Gögele, A. De Grandi, N. Grarup, K.H. Greiser, K. Haljas, T. Hansen, S.E. Harris, D. van Heemst, M. den Heijer, A.A. Hicks, W. den Hollander, G. Homuth, J. Hui, M.A. Ikram, T. Ittermann, R.A. Jensen, J. Jing, J.W. Jukema, E. Kajantie, Y. Kamatani, E. Kasbohm, J.M. Kaufman, L.A. Kiemeny, M. Kloppenburg, F. Kronenberg, M. Kubo, J. Lahti, B. Lapauw, S. Li, D.C.M. Liewald, Lifelines Cohort Study, E.M. Lim, A. Linneberg, M. Marina, D. Mascialzoni, K. Matsuda, D. Medenwald, C. Meisinger, I. Meulenbelt, T. De Meyer, H.E. Meyer Zu Schwabedissen, R. Mikolajczyk, M. Moed, R.T. Netea-Maier, I.M. Nolte, Y. Okada, M. Pala, C. Pattaro, O. Pedersen, A. Petersmann, E. Porcu, I. Postmus, P.P. Pramstaller, B.M. Psaty, Y.F.M. Ramos, R. Rawal, P. Redmond, J.B. Richards, E.R. Rietzschel, F. Rivadeneira, G. Roef, J.I. Rotter, C.F. Sala, D. Schlessinger, E. Selvin, P.E. Slagboom, N. Soranzo, T.I.A. Sørensen, T.D. Spector, J.M. Starr, D.J. Stott, Y. Taes, D. Taliun, T. Tanaka, B. Thuesen, D. Tiller, D. Toniolo, A.G. Uitterlinden, W.E. Visser, J.P. Walsh, S.G. Wilson, B.H.R. Wolfenbittel, Q. Yang, H.F. Zheng, A. Cappola, R.P. Peeters, S. Naitza, H. Völzke, S. Sanna, A. Köttgen, T.J. Visser, and M. Medici. 2018. Genome-wide analyses identify a role for SLC17A4 and AADAT in thyroid hormone regulation. *Nat Commun* 9:4455.

Tippelt, L., and M. Schwentner. 2018. Taxonomic assessment of Australian Eocyclus species (Crustacea: Branchiopoda: Spinicaudata). *Zootaxa* 4410:401-452.

Tippelt, L., D. Walther, D.E. Scheuch, M. Schäfer, and H. Kampen. 2018. Further reports of *Anopheles algeriensis* Theobald, 1903 (Diptera: Culicidae) in Germany, with evidence of local mass development. *Parasitol Res* 117:2689-2696.

Tomaso, H., P. Otto, M. Peters, J. Süß, A. Karger, H. Schamoni, E. Zuchantke, and H. Hotzel. 2018. *Francisella tularensis* and other bacteria in hares and ticks in North Rhine-Westphalia (Germany). *Ticks Tick-borne Dis* 9:325-329.

Tomassone, L., E. Berriatua, R. De Sousa, G.G. Duscher, A.D. Mihalca, C. Silaghi, H. Sprong, and A. Zintl. 2018. Neglected vector-borne zoonoses in Europe: Into the wild. *Vet Parasitol* 251:17-26.

Torelli, F., S. Zander, H. Ellerbrok, G. Kochs, R.G. Ulrich, C. Klotz, and F. Seeber. 2018. Recombinant IFN- γ from the bank vole *Myodes glareolus*: a novel tool for research on rodent reservoirs of zoonotic pathogens. *Sci Rep* 8:2797.

Tran, A.-T., J. Kluess, A. Berk, M. Paulick, J. Frahm, D. Schatzmayr, S. Kersten, and S. Dänicke. 2018. Effects of a *Fusarium* Toxin-Contaminated Maize Treated with Sodium Sulfite on Male Piglets in the Presence of an LPS-Induced Acute Inflammation. *Toxins* 10:419.

Tran, A.T., J. Kluess, A. Berk, M. Paulick, J. Frahm, D. Schatzmayr, J. Winkler, S. Kersten, and S. Dänicke. 2018. Detoxification of *Fusarium*-contaminated maize with sodium sulphite - *in vivo* efficacy with special emphasis on mycotoxin residues and piglet health. *Arch Anim Nutr* 72:58-75.

Traxler, S., A.-C. Bischoff, R. Saß, P. Trefz, P. Gierschner, B. Brock, T. Schwaiger, C. Karte, U. Blohm, C. Schröder, W. Miekisch, and J.K. Schubert. 2018. VOC breath profile in spontaneously breathing awake swine during Influenza A infection. *Sci Rep* 8:14857.

Trübe, P., T. Hertlein, D.M. Mrochen, D. Schulz, I. Jorde, B. Krause, J. Zeun, S. Fischer, S.A. Wolf, B. Walther, T. Semmler, B.M. Bröker, R.G. Ulrich, K. Ohlsen, and S. Holtfreter. 2018. Bringing together what belongs together: Optimizing murine infection models by using mouse-adapted

Staphylococcus aureus strains. Int J Med Microbiol [Epub ahead of print; doi:10.1016/j.ijmm.2018.10.007]

Tucakov, A.K., S. Yavuz, E.-M. Schürmann, M. Mischler, A. Klingebiel, and G. Meyers, 2018. Restoration of glycoprotein E^{rns} dimerization via pseudoreversion partially restores virulence of classical swine fever virus. J Gen Virol 99:86-96.

Ugolini, M., J. Gerhard, S. Burkert, K.J. Jensen, P. Georg, F. Ebner, S.M. Volkers, S. Thada, K. Dietert, L. Bauer, A. Schäfer, E.T. Helbig, B. Opitz, F. Kurth, S. Sur, N. Dittrich, S. Gaddam, M.L. Conrad, C.S. Benn, U. Blohm, A.D. Gruber, A. Hutloff, S. Hartmann, M.V. Boekschoten, M. Müller, G. Jungersen, R.R. Schumann, N. Suttorp, and L.E. Sander. 2018. Recognition of microbial viability via TLR8 drives T_{FH} cell differentiation and vaccine responses. Nature Immunology [Epub ahead of print; doi:10.1038/s41590-018-0068-4]

Vallbracht, M., D. Brun, M. Tassinari, M.-C. Vaney, G. Pehau-Arnaudet, P. Guradado-Calvo, A. Haouz, B.G. Klupp, T.C. Mettenleiter, R.A. Rey, and M. Backovic. 2018. Structure-Function Dissection of Pseudorabies Virus Glycoprotein B Fusion Loops. J Virol 92:e01203-17.

Vallbracht, M., W. Fuchs, B.G. Klupp, and T.C. Mettenleiter. 2018. Functional relevance to the transmembrane domain and cytoplasmic tail of the pseudorabies virus glycoprotein H for membrane fusion. J Virol 92:e00376-18.

Vallbracht, M., S. Rehwaldt, B.G. Klupp, T.C. Mettenleiter, and W. Fuchs. 2018. Functional role of N-linked glycosylation in pseudorabies virus glycoprotein gH. J Virol 92:e00084-18.

Vasić, A., M. Nieder, N. Zdravković, J. Bojkovski, D. Bugarski, I. Pavlović, and C. Silaghi. 2018. Tick infestation and occurrence of *Anaplasma phagocytophilum* and piroplasms in cattle in the Republic of Serbia. Parasitol Res [Epub ahead of print; doi:10.1007/s00436-018-5867-x]

Vasić, A., and C. Silaghi. 2018. Driving factors for the changing epidemiology of vector-borne diseases - a review. Berl Münch Tierärztl Wschr 131:496-505.

Veit, C., M. Marahrens, I. Schwarzlose, E. Tobias Krause, and L. Schrader. 2018. Alternativen zur betäubungslosen Ferkelkastration in Deutschland: Überblick zum aktuellen Stand der Forschung. Berl Münch Tierärztl Wschr 131:182-191.

Veronesi, E., A. Paslaru, C. Silaghi, K. Tobler, U. Glavinic, P. Torgerson, and A. Mathis. 2018. Experimental evaluation of infection, dissemination, and transmission rates for two West Nile virus strains in European *Aedes japonicus* under a fluctuating temperature regime. Parasitol Res 117:1925-1932.

Villagra-Blanco, R., L. Angelova, T. Conze, G. Schares, A. Bärwald, A. Taubert, C. Hermosilla, and A. Wehrend. 2018. Seroprevalence of *Neospora caninum*-specific antibodies in German breeding bitches. Parasite Vector 11:96.

Vogler, B.R., S. Hartnack, U. Ziegler, D. Lelli, A. Vöggtlin, R. Hoop, and S. Albin. 2018. Resource-Effective Serosurveillance for the Detection of West Nile Virus in Switzerland Using Abattoir Samples of Free-Range Laying Hens. Vector-Borne Zoonotic Dis [Epub ahead of print; doi:10.1089/vbz.2018.2319]

Voigt, K., S. Frohmayer, H. Strobel, C. Sauter-Louis, and H. Zerbe. 2018. Time pattern and causes of lamb mortality on commercial sheep farms in Southern Germany operating conservation grazing and non-seasonal production systems - a field study. Berl Münch Tierärztl Wschr [Epub ahead of print; doi:10.2376/00059366-18006]

Vos, A., C. Freuling, S. Ortman, A. Kretzschmar, D. Mayer, A. Schliephake, and T. Müller. 2018. An assessment of shedding with the oral rabies virus vaccine strain SPBN GASGAS in target and non-target species. Vaccine 36:811-817.

- Wagner, S., A. Mathis, A.C. Schönenberger, S. Becker, J. Schmidt-Chanasit, C. Silaghi, and E. Veronesi. 2018. Vector competence of field populations of the mosquito species *Aedes japonicus japonicus* and *Culex pipiens* from Switzerland for two West Nile virus strains. *Med Vet Entomol* **32**:121-124.
- Walther, D., and H. Kampen. 2018. Das Citizen Science-Projekt 'Mückenatlas'. *Tierärztl Umschau* **73**:99-108.
- Wang, Q., H. Xie, W. Zeng, L. Wang, C. Liu, J. Wu, Y. Wang, Y. Li, and S.M. Bergmann. 2018. Development of indirect immunofluorescence assay for TCID₅₀ measurement of grass carp reovirus genotype II without cytopathic effect onto cells. *Microb Pathogen* **114**:68-74.
- Wang, Q., J. Liu, Y. Niu, Y. Li, S. Zhou, C. Li, B. Ma, Q. Kou, B. Petersen, T. Sonstegard, X. Huang, Y. Jiang, and Y. Chen. 2018. Low incidence of SNVs and indels in trio genomes of Cas9-mediated multiplex edited sheep. *BMC Genomics* **19**:397.
- Wang, Y., Q. Wang, W. Zeng, J. Yin, Y. Li, Y. Ren, C. Shi, S.M. Bergmann, and X. Zhu. 2018. Establishment and characterization of a cell line from tilapia brain for detection of tilapia lake virus. *J Fish Dis* **41**:1803-1809.
- Wareth, G., M. El Diasty, F. Melzer, J. Murugaiyan, A. Abdulmawjood, L.D. Sprague, and H. Neubauer. 2018. Trueperella pyogenes and Brucella abortus co-infection in a dog and a cat on a dairy farm in Egypt with recurrent cases of mastitis and abortion. *Vet Med Int Article ID 2056435*; doi:10.1155/2018/2056436.
- Wareth, G., H. Neubauer, and L.D. Sprague. 2018. *Acinetobacter baumannii* - a neglected pathogen in veterinary and environmental health in Germany. *Vet Res Commun* [Epub ahead of print; doi:10.1007/s11259-018-9742-0]
- Weiss, D., D. Gawlik, H. Hotzel, I. Engelmann, E. Mueller, P. Slickers, S.D. Braun, S. Monecke, and R. Ehricht. 2018. Fast, economic and simultaneous identification of clinically relevant Gram-negative species with multiplex real-time PCR. *Future Microbiol* [Epub ahead of print; doi:10.2217/fmb-2018-0197]
- Wendt, L., L. Kämper, M.L. Schmidt, T.C. Mettenleiter, and T. Hoenen. 2018. Analysis of a Putative Late Domain Using an Ebola Virus Transcription and Replication-Competent Virus-Like Particle System. *J Infect Dis* **218**:S355-S359.
- Wernike, K., M. Holsteg, K.P. Szillat, and M. Beer. 2018. Development of within-herd immunity and long-term persistence of antibodies against Schmallenberg virus in naturally infected cattle. *BMC Vet Res* **14**:368.
- Wernike, K., A. Michelitsch, A. Aebischer, U. Schaarschmidt, A. Konrath, H. Nieper, J. Sehl, J.P. Teifke, and M. Beer. 2018. The Occurrence of a Commercial N^{pro} and E^{rns} Double Mutant BVDV-1 Live-Vaccine Strain in Newborn Calves. *Viruses* **10**:274.
- Wernike, K., A. Mundt, E.K. Link, A. Aebischer, F. Schlotthauer, G. Sutter, R. Fux, and M. Beer. 2018. N-terminal domain of Schmallenberg virus envelope protein Gc delivered by recombinant equine herpesvirus type 1 and modified vaccinia virus Ankara: Immunogenicity and protective efficacy in cattle. *Vaccine* **36**:5116-5123.
- Wernike, K., C. Wylezich, D. Höper, J. Schneider, P.W.W. Lurz, A. Meredith, E. Milne, M. Beer, and R.G. Ulrich. 2018. Widespread occurrence of Squirrel adenovirus 1 in red and grey squirrels in Scotland detected by a novel real-time PCR assay. *Virus Res* **257**:113-118.
- Wessels, U., E.-S.M. Abdelwhab, J. Veits, D. Hoffmann, S. Mamerow, O. Stech, J. Hellert, M. Beer, T.C. Mettenleiter, and J. Stech. 2018. A dual motif in the hemagglutinin of H5N1 Goose/Guangdong-like HPAIV is conserved from their early evolution and increases both membrane fusion pH and virulence. *J Virol* **92**:e00778-18.

Wippermann, W., A. Heckmann, K. Jäger, S. Dänicke, and H.-A. Schoon. 2018. Exposure of pregnant sows to deoxynivalenol during 35-70 days of gestation does not affect pathomorphological and immunohistochemical properties of fetal organs. *Mycotoxin Res* **34**:99-106.

Wylezich, C., A. Papa, M. Beer, and D. Höper. 2018. A Versatile Sample Processing Workflow for Metagenomic Pathogen Detection. *Sci Rep* **8**:13108.

Yamaguchi, T., E. Quillet, P. Boudinot, and U. Fischer. 2018. What could be the mechanisms of immunological memory in fish? *Fish Shellfish Immunol* [Epub ahead of print; doi:10.1016/j.fsi.2018.01.035]

Yang, Y., H. Sadri, C. Prehn, J. Adamski, J. Rehage, S. Dänicke, B. Saremi, and H. Sauerwein. 2018. Acylcarnitine profiles in serum and muscle of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2018-14685]

Yehia, N., M.M. Naguib, R. Li, N. Hagag, M. El-Husseiny, Z. Mosaad, A. Nour, N. Rabea, W.M. Hasan, M.K. Hassan, T. Harder, and A.-S.A. Arafa. 2018. Multiple introductions of reassorted highly pathogenic avian influenza viruses (H5N8) clade 2.3.4.4b causing outbreaks in wild birds and poultry in Egypt. *Infect Genet Evol* **58**:56-65.

Zani, L., J.H. Forth, L. Forth, I. Nurmoja, S. Leidenberger, J. Henke, J. Carlson, C. Breidenstein, A. Viltrop, D. Höper, C. Sauter-Louis, M. Beer, and S. Blome. 2018. Deletion at the 5'-end of Estonian ASFV strains associated with an attenuated phenotype. *Sci Rep* **8**:6510.

Zeng, W., Y. Wang, Y. Guo, S.M. Bergmann, J. Yin, Y. Li, Y. Ren, C. Shi, and Q. Wang. 2018. Development of a VP38 recombinant protein-based indirect ELISA for detection of antibodies against grass carp reovirus genotype II (iELISA for detection of antibodies against GCRV II). *J Fish Dis* **41**:1811-1819.

Zhao, N., C. Grund, M. Beer, and T.C. Harder. 2018. Engineered recombinant protein products of the avian paramyxovirus type-1 nucleocapsid and phosphoprotein genes for serological diagnosis. *Virology J* **15**:8.

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

Ziegler, U., M.H. Groschup, P. Wysocki, F. Press, B. Gehrman, C. Fast, W. Gaede, D.E. Scheuch, and M. Eiden. 2018. Seroprevalence of Batai virus in ruminants from East Germany. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2018.10.029]

Ziegler, U., R. Lühken, M. Keller, D. Cadar, E. van der Grinten, F. Michel, K. Albrecht, M. Eiden, M. Rinder, L. Lachmann, D. Höper, A. Vina-Rodriguez, W. Gaede, A. Pohl, J. Schmidt-Chanasit, and M.H. Groschup. 2018. West Nile virus epizootic in Germany, 2018. *Antiviral Res* [Epub ahead of print; doi:10.1016/j.antiviral.2018.12.005]

Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings

Allendorf, V., D. Rubbenstroth, R.G. Ulrich, K. Schlottau, V. Schulze, D. Hoffmann, M. Beer, and T. Homeier-Bachmann. 2018. Bornaviren in exotischen Hörnchen und einheimischen Spitzmäusen - eine neue Gefahr für den Menschen. *Eliomys* **3/2018**:20-24.

Allendorf, V., K. Schlottau, D. Hoffmann, V. Schulze, D. Höper, R.G. Ulrich, B. Hoffmann, F.J. Conraths, T. Homeier-Bachmann, and M. Beer. 2018. Neues Forschungsprojekt zum Bunthörnchen-Borna-Virus 1. *Rodentia* **95**:41-43.

Bastian, M., M. Ganter, K. Müller, and U. Truyen. 2018. Die neue Impfleitlinie für Wiederkäuer. Dt Tierärztebl **66**:314-320.

Berk, J. 2018. Bekämpfung der Roten Vogelmilbe - Gibt es Ähnlichkeiten mit der Bettwanze? DGS Magazin **1/2018**:38-41.

Blome, S., and J.P. Teifke. 2018. Afrikanische Schweinepest: Was noch nicht im Lehrbuch steht. Amtstierärztl Dienst Lebensm **25**:27-34.

Cußler, K., M. Bastian, and A. Schwarzmaier. 2018. Durchführung der Maul- und Klauenseucheimpfung. Dt Tierärztebl **66**:1390-1392.

Dorhoi, A., J. Jantsch, and N. Reiling. 2018. Rothenfels Castle - the place to be for immunology of infection. Eur J Immunol **48**:1094-1095.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, I. Halle, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Coxiril® (diclazuril) for pheasants. EFSA J **16**:5196.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, I. Halle, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Sacox® microGranulate (salinomycin sodium) for rabbits for fattening. EFSA J **16**:5209.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, B. Dusemund, P. van Beelen, J. Westendorf, L. Gregoretti, P. Manini, and A. Chesson. 2018. Safety and efficacy of sodium saccharin when used as a feed flavour for piglets, pigs for fattening, calves for rearing and calves for fattening. EFSA J **16**:5208.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Safety and efficacy of *Pediococcus pentosaceus* DSM 32291 as a silage additive for all animal species. EFSA J **16**:5202.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, A.-K. Lundebye, C. Nebbia, D. Renshaw, M.L. Innocenti, and J. Gropp. 2018. Safety and efficacy of hydroxy analogue of methionine and its calcium salt (ADRY+®) for all animal species. EFSA J **16**:5198.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, L. Leng, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of natural mixtures of talc (steatite) and chlorite (E 560) as a feed additive for all animal species. EFSA J **16**:5205.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Safety and efficacy of Alterion NE® (*Bacillus subtilis* DSM 29784) as a feed additive for minor poultry species for fattening and reared for laying. EFSA J 16:5204.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Efficacy of Cylactin® (*Enterococcus faecium* NCIMB 10415) as a feed additive for pigs for fattening. EFSA J 16:5201.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, G. Martelli, D. Renshaw, G. López-Gálvez, and A. Mantovani. 2018. Safety and efficacy of benzoic acid for pigs and poultry. EFSA J 16:5210.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, A. Pechova, G. López-Gálvez, and A. Mantovani. 2018. Safety and efficacy of Zinc- L-Selenomethionine as feed additive for all animal species. EFSA J 16:5197.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, N.A. Dierick, and M. Anguita. 2018. Safety and efficacy of 3-phytase FLF1000 as a feed additive for chickens reared for laying and minor poultry species. EFSA J 16:5203.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, I. Halle, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Coxar® (nicarbazin) for turkeys for fattening. EFSA J 16:5214.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Safety and efficacy of EB15 10 (*Bacillus subtilis* DSM 25841) as a feed additive for weaned piglets and minor porcine species. EFSA J 16:5199.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Safety and efficacy of ZM16 10 (*Bacillus amyloliquefaciens* DSM 25840) as a feed additive for weaned piglets and minor porcine species. EFSA J 16:5200.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, N.A. Dierick, J. Aguilera, and M. Anguita. 2018. Safety and efficacy of alpha-amylase from *Bacillus amyloliquefaciens* DSM 9553, *Bacillus amyloliquefaciens* NCIMB 30251, *Aspergillus oryzae* CBS 585.94 and *Aspergillus oryzae* ATCC SD-5374, endo-1,4-beta-glucanase from *Trichoderma reesei* ATCC PTA-10001, *Trichoderma reesei* ATCC SD-6331 and *Aspergillus niger* CBS 120604, endo-1,4-beta-xylanase from *Trichoderma koningii* MUCL 39203 and *Trichoderma citrinoviride* CBS 614.94 and endo-1,3(4)-beta-glucanase from *Aspergillus tubingensis* MUCL 39199 as silage additives for all animal species. EFSA J 16:5224.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, A.-K. Lundebye, C. Nebbia, D. Renshaw, M.L. Innocenti, and J. Gropp. 2018. Safety and efficacy of *Bacillus subtilis* KCCM 10673P and *Aspergillus oryzae* KCTC 10258BP when used as a technological feed additive for all animal species. EFSA J 16:5275.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, A.-K. Lundebye, C. Nebbia, D. Renshaw, M.L. Innocenti, and J. Gropp. 2018. Safety of natural mixture of dolomite plus magnesite and magnesium-phyllsilicates (Fluidol) for all animal species. EFSA J 16:5272.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, M. Anguita, J. Galobart, M.L. Innocenti, and L. Martino. 2018. Guidance on the assessment of the efficacy of feed additives. EFSA J 16:5274.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, R. Brozzi, and M. Saarela. 2018. Safety and efficacy of *Lactobacillus acidophilus* D2/CSL (*Lactobacillus acidophilus* CECT 4529) as a feed additive for cats and dogs. EFSA J 16:5278.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, N. Dierick, and M. Anguita. 2018. Safety and efficacy of Amylofeed® (endo-1,3(4)- β -glucanase and endo-1,4- β -xylanase and α -amylase) as a feed additive for piglets and minor growing porcine species. EFSA J 16:5271.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, G. Martelli, D. Renshaw, G. López-Gálvez, and A. Mantovani. 2018. Safety and efficacy of Taminizer D (dimethylglycine sodium salt) as a feed additive for chickens for fattening. EFSA J 16:5268.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, G. Martelli, D. Renshaw, B. Glandorf, L. Herman, S. Kärenlampi, J. Aguilera, G. López-Gálvez, and A. Mantovani. 2018. Safety and efficacy of fumonisin esterase from *Komagataella phaffii* DSM 32159 as a technological feed additive for pigs and poultry. EFSA J 16:5269.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, B. Dusemund, P. van Beelen, J. Westendorf, L. Gregoretti, P. Manini, and A. Chesson. 2018. Safety and efficacy of cumin tincture (*Cuminum cyminum* L.) when used as a sensory additive for all animal species. EFSA J 16:5273.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, N.A. Dierick, B. Glandorf, L. Herman, S. Kärenlampi, J. Aguilera, M. Anguita, and P.S. Cocconcelli. 2018. Safety and efficacy of Hemicell® HT (endo-1,4- β -mannanase) as a feed additive for chickens for fattening, chickens reared for laying, turkey for fattening, turkeys reared for breeding, weaned piglets, pigs for fattening and minor poultry and porcine species. EFSA J 16:5270.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, G. Martelli, D. Renshaw, G. López-Gálvez, and A. Mantovani. 2018. Safety and efficacy of Kelforce® (L-glutamic acid, *N,N*-diacetic acid, tetrasodium salt (GLDA-Na₄)) as a feed additive for chickens for fattening. EFSA J 16:5279.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, B. Glandorf, L. Herman, Kärenlampi, L. Leng, J. Aguilera, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of L-arginine produced by fermentation with *Escherichia coli* NITE BP-02186 for all animal species. EFSA J 16:5276.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, Kärenlampi, L. Leng, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of L-arginine produced by fermentation using *Corynebacterium glutamicum* KCCM 10741P for all animal species. EFSA J 16:5277.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, N.A. Dierick, L. Herman, B. Glandorf, S. Kärenlampi, J. Aguilera, M. Anguita, and P.S. Cocconcelli. 2018. Safety and efficacy of muramidase from *Trichoderma reesei* DSM 32338 as a feed additive for chickens for fattening and minor poultry species. EFSA J 16:5342.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, I. Halle, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of COXAM® (amprolium hydrochloride) for chickens for fattening and chickens reared for laying. EFSA J 16:5338.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, J. Aguilera, R. Brozzi, and M. Saarela. 2018. Assessment of the application for renewal of authorisation of Actisaf® Sc47 (*Saccharomyces cerevisiae* CNCM I-4407) for lambs for fattening, minor dairy ruminants, horses and pigs for fattening. EFSA J 16:5339.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, B. Glandorf, L. Herman, S. Kärenlampi, L. Leng, C. Tebbe, J. Aguilera, P. Manini, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of vitamin B2 (riboflavin) produced by *Ashbya gossypii* ----- for all animal species based on a dossier submitted by BASF SE. EFSA J 16:5337.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, L. Leng, P. Manini, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of betaine anhydrous for food-producing animal species based on a dossier submitted by AB Vista. EFSA J 16:5335.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, P. Wester, L. Costa, N. Dierick, B. Glandorf, L. Herman, S. Kärenlampi, L. Leng, C. Tebbe, J. Aguilera, P. Manini, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of vitamin B₁₂ (in the form of cyanocobalamin) produced by *Ensifer* spp. as a feed additive for all animal species based on a dossier submitted by VITAC EEIG. EFSA J 16:5336.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, J. Kos Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, F. Cubadda, G. Flachowsky, J. Gropp, L. Leng, G. López-Gálvez, and A. Mantovani. 2018. Assessment of the application for renewal of authorisation of selenomethionine produced by *Saccharomyces cerevisiae* CNCM I-3060 (selenised yeast inactivated) for all animal species. EFSA J 16:5386.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, R.E. Villa, R.J. Wallace, P. Wester, J. Aguilera, R. Brozzi, and M. Saarela. 2018. Assessment of the application for renewal of authorisation of Calsporin® (*Bacillus subtilis* DSM 15544) for chickens for fattening. EFSA J 16:5340.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Rychen, G. Aquilina, G. Azimonti, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, G. Flachowsky, B. Kolar, M. Kouba, M. López-Alonso, S.L. Puente, A. Mantovani, B. Mayo, F. Ramos, M. Saarela, R.E. Villa, R.J. Wallace, P. Wester, P. Brantom, I. Halle, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Scientific Opinion on the safety and efficacy of Aviax 5% (semduramicin sodium) for chickens for fattening. EFSA J 16:5341.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, G. Flachowsky, F. Cubadda, G. López-Gálvez, and A. Mantovani. 2018. Safety of zinc chelate of methionine sulfate for the target species. *EFSA J* 16:5463.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, P.S. Cocconcelli, L. Costa, N. Dierick, G. Flachowsky, B. Glandorf, L. Herman, S. Kärenlampi, A. Mantovani, M. Saarela, M. Anguita, J. Tarrés-Call, and R.J. Wallace. 2018. Safety and efficacy of L-threonine produced by fermentation using *Escherichia coli* CGMCC 7.232 for all animal species. *EFSA J* 16:5458.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, G. Aquilina, G. Bories, P. Brantom, P.S. Cocconcelli, I. Halle, B. Kolar, P. van Beelen, P. Wester, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Monimax® (monensin sodium and nicarbazin) for chickens for fattening and chickens reared for laying. *EFSA J* 16:5459.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, G. Aquilina, G. Bories, P. Brantom, P.S. Cocconcelli, I. Halle, B. Kolar, P. Wester, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Monteban® G100 (narasin) for chickens for fattening. *EFSA J* 16:5460.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, G. Aquilina, G. Bories, P. Brantom, P.S. Cocconcelli, I. Halle, B. Kolar, P. Wester, P. van Beelen, O. Holczknecht, M.V. Vettori, and J. Gropp. 2018. Safety and efficacy of Monteban® G100 (narasin) for ducks for fattening. *EFSA J* 16:5461.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), V. Bampidis, G. Azimonti, M. de Lourdes Bastos, H. Christensen, B. Dusemund, M. Kouba, M.K. Durjava, M. López-Alonso, S.L. Puente, F. Marcon, B. Mayo, A. Pechová, M. Petkova, F. Ramos, Y. Sanz, R.E. Villa, R. Woutersen, L. Costa, N. Dierick, G. Flachowsky, A. Mantovani, R.J. Wallace, P. Manini, and J. Tarrés-Call. 2018. Safety and efficacy of vitamin B₂ (riboflavin 5'-phosphate ester monosodium salt) for all animal species when used in water for drinking. *EFSA J* 16:5531.

EFSA Panel on Animal Health and Welfare (AHAW), S. More, M.A. Miranda, D. Bicout, A. Bøtner, A. Butterworth, P. Calistri, K. Depner, S. Edwards, B. Garin-Bastuji, M. Good, V. Michel, M. Raj, S. Saxmose Nielsen, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, A. Velarde, P. Willeberg, C. Winckler, V. Baláž, A. Martel, K. Murray, C. Fabris, I. Munoz-Gajardo, A. Gogin, F. Verdonck, and C. Gortázar Schmidt. 2018. Risk of survival, establishment and spread of *Batrachochytrium salamandrivorans* (Bsal) in the EU. *EFSA J* 16:5259.

EFSA Panel on Animal Health and Welfare (AHAW), S. More, M.A. Miranda, D. Bicout, A. Bøtner, A. Butterworth, P. Calistri, S. Edwards, B. Garin-Bastuji, M. Good, V. Michel, M. Raj, S. Saxmose Nielsen, L. Sihvonen, H. Spoolder, J.A. Stegeman, A. Velarde, P. Willeberg, C. Winckler, K. Depner, V. Guberti, M. Masiulis, G. Wozniakowski, A. Bau, A. Broglia, J.C. Abrahantes, S. Dhollander, A. Gogin, I. Muñoz Gajardo, F. Verdonck, L. Amato, and C. Gortázar Schmidt. 2018. African swine fever in wild boar. *EFSA J* 16:5344.

EFSA Panel on Animal Health and Welfare (AHAW), S. More, D. Bicout, A. Bøtner, A. Butterworth, P. Calistri, K. Depner, S. Edwards, B. Garin-Bastuji, M. Good, C. Gortázar Schmidt, M.A. Miranda, S.

- Saxmose Nielsen, A. Velarde, H.-H. Thulke, L. Sihvonen, H. Spoolder, J.A. Stegeman, M. Raj, P. Willeberg, C. Winckler, R. Marano, F. Verdonck, D. Candiani, and V. Michel. 2018. Guidance on the assessment criteria for applications for new or modified stunning methods regarding animal protection at the time of killing. *EFSA J* **16**:5343.
- European Food Safety Authority (EFSA), A. Boklund, B. Cay, K. Depner, Z. Földi, V. Guberti, M. Masiulis, A. Miteva, S. More, E. Olsevskis, P. Šatrán, M. Spiridon, K. Strahl, H.-H. Thulke, A. Viltrop, G. Wozniakowski, A. Broglia, J.C. Abrahantes, S. Dhollander, A. Gogin, F. Verdonck, L. Amato, A. Papanikolaou, and C. Gortázar. 2018. Epidemiological analyses of African swine fever in the European Union (November 2017 until November 2018). *EFSA J* **16**:5494.
- European Food Safety Authority (EFSA), A. Brouwer, A. Huneau, T. Kuiken, C. Staubach, A. Stegemen, F. Baldinelli, F. Verdonck, and I. Aznar. 2018. Reporting Avian Influenza surveillance. *EFSA J* **16**:5493.
- European Food Safety Authority, European Centre for Disease Prevention and Control, European Reference Laboratory for Avian Influenza, C. Adlhoch, A. Brouwer, T. Kuiken, P. Mulatti, K. Smietanka, C. Staubach, P. Willeberg, F. Barrucci, F. Verdonck, L. Amato, and F. Baldinelli. 2018. Avian influenza overview November 2017 - February 2018. *EFSA J* **16**:5240.
- European Food Safety Authority, European Centre for Disease Prevention and Control, European Reference Laboratory for Avian Influenza, C. Adlhoch, A. Brouwer, T. Kuiken, P. Mulatti, K. Smietanka, C. Staubach, I. Muñoz-Gajardo, F. Verdonck, L. Amato, and F. Baldinelli. 2018. Avian influenza overview February - May 2018. *EFSA J* **16**:5358.
- European Food Safety Authority, European Centre for Disease Prevention and Control, European Reference Laboratory for Avian Influenza, C. Adlhoch, T. Kuiken, P. Mulatti, K. Smietanka, C. Staubach, I. Muñoz-Gajardo, L. Amato, and F. Baldinelli. 2018. Avian influenza overview May - August 2018. *EFSA J* **16**:5430.
- European Food Safety Authority, European Centre for Disease Prevention and Control, European Reference Laboratory for Avian Influenza, C. Adlhoch, A. Brouwer, T. Kuiken, A. Miteva, P. Mulatti, K. Smietanka, C. Staubach, A. Gogin, I. Muñoz-Gajardo, and F. Baldinelli. 2018. Avian influenza overview May - August 2018. *EFSA J* **16**:5430.
- Flachowsky, G., and J. Gropp. 2018. Warum Höchstgrenzen für Spurenelemente? Why are there upper limits for trace elements? *FeedMagazine/Kraftfutter* **3-4/2018**:9-10.
- Flachowsky, G., and J. Gropp. 2018. Über die Aufgaben des FEEDAP-Panels der EFSA. *Mühle + Mischfutter* **155**:671-673.
- Grabkowsky, B., A. Globig, N. Denzin, and F.J. Conraths. 2018. Vorsorgen ist besser als Räumen. *DGS Magazin* **22/2018**:38-41.
- Gropp, J. and G. Flachowsky. 2018. Neue FEEDAP Leitlinie zur Beurteilung der Sicherheit von Zusatzstoffen für das Zieltier - New FEEDAP Guidance for assessing the safety of additives for the target animal. *FeedMagazine/Kraftfutter* **1-2/2018**:10-12.
- Gropp, J. and G. Flachowsky. 2018. Neue FEEDAP Leitlinie zur Beurteilung der Wirksamkeit von Zusatzstoffen am Zieltier - New FEEDAP Guidance on the assessment of the efficacy of additives in the target animal. *FeedMagazine/Kraftfutter* **5-6/2018**:8-10.
- Gropp, J. and G. Flachowsky. 2018. Quo vadis, FEEDAP? *FeedMagazine/Kraftfutter* **7-8/2018**:10-12.
- Koher, A., H.H.K. Lentz, J.P. Gleeson, and P. Hövel. 2018. Contact-based model for epidemic spreading on temporal networks. *arXiv* [Epub ahead of print; arxiv.org/abs/1811.05809]
- Li, G., S. Zhou, C. Li, B. Cai, H. Yu, B. Ma, Y. Huang, Y. Ding, Y. Liu, Q. Ding, C. He, J. Zhou, Y. Wang, G. Zhou, Y. Li, Y. Yan, J. Hua, B. Petersen, Y. Jiang, T. Sonstegard, X. Huang, Y. Chen, and

X. Wang. 2018. Base pair editing of goat embryos: nonsense codon introgression into FGF5 to improve cashmere yield. bioRxiv [Epub ahead of print; doi:10.1101/348441]

Meyer, U., and H. Spiekers. 2018. Welches Energieniveau ist zielführend? *In*: Spiekers, H., P. Hertel-Böhnke, and U. Meyer (Hrsg.), Verbundprojekt optiKuh - Abschlussveranstaltung am 30.-31.01.2018 im Forum des Thünen-Instituts in Braunschweig, LfL-Schriftenreihe 2/2018, Bayerische Landesanstalt für Landwirtschaft (LfL), Freising-Weihenstephan, ISBN: 1611-4159, S. 24-29.

Pajic, P., P. Pavlidis, K. Dean, L. Neznanova, E. Daugherty, R.-A. Romano, D. Garneau, A. Globig, S. Ruhl, and O. Gokcumen. 2018. *Amylase* copy number analysis in several mammalian lineages reveals convergent adaptive bursts shaped by diet. bioRxiv [Epub ahead of print; doi:10.1101/339457]

Schmitz, R., K. Schnabel, D. von Soosten, U. Meyer, J. Rehage, H. Spiekers, and S. Dänicke. 2018. Einfluss von Energiekonzentration im Grobfutter sowie Menge an Kraftfutter auf die Futterraufnahme und Leistung bei Milchkühen der Rasse Deutsche Holstein während der Früh lactation *In*: Spiekers, H., P. Hertel-Böhnke, and U. Meyer (Hrsg.), Verbundprojekt optiKuh - Abschlussveranstaltung am 30.-31.01.2018 im Forum des Thünen-Instituts in Braunschweig, LfL-Schriftenreihe 2/2018, Bayerische Landesanstalt für Landwirtschaft (LfL), Freising-Weihenstephan, ISBN: 1611-4159, S. 49-52.

Schmitz, R., K. Schnabel, D. von Soosten, U. Meyer, J. Rehage, H. Spiekers, and S. Dänicke. 2018. Einfluss von Energiekonzentration im Grobfutter sowie Menge an Kraftfutter auf metabolische Parameter bei Milchkühen der Rasse Deutsche Holstein während der Früh lactation *In*: Spiekers, H., P. Hertel-Böhnke, and U. Meyer (Hrsg.), Verbundprojekt optiKuh - Abschlussveranstaltung am 30.-31.01.2018 im Forum des Thünen-Instituts in Braunschweig, LfL-Schriftenreihe 2/2018, Bayerische Landesanstalt für Landwirtschaft (LfL), Freising-Weihenstephan, ISBN: 1611-4159, S. 126-129.

Semmler, I., F. Jansen, N. Kley, C. Drost, R. Köck, L. Kreienbrock, T.C. Mettenleiter, L.H. Wieler, S.C. Semler, M.H. Groschup, and S. Ludwig. 2018. Die Gesundheit von Menschen und Tieren ist untrennbar verknüpft. *Dt Tierärztebl* **66**:10-12.

Buchbeiträge

Collantes-Fernández, E., M.C. Fort, L.M. Ortega-Mora, and G. Schares. 2018. Trichomonas. *In*: Florin-Christensen, M., and L. Schnittger (Hrsg.), Parasitic Protozoa of Farm Animals and Pets, Springer, Cham, ISBN: 978-3-319-70131-8, 438 S., S. 313-388.

Feßler, A.T., J. Li, K. Kadlec, Y. Wang, and S. Schwarz. 2018. Chapter 4 - Antimicrobial Resistance Properties of *Staphylococcus aureus*. *In*: Fetsch, A. (Hrsg.), Staphylococcus aureus, Elsevier Academic Press, ISBN: 978-0-12-809671-0, doi:10.1016/B978-0-12-809671-0.00004-8, S. 57-85.

Flachowsky, G. 2018. Influence of Feed From Genetically Modified Plants on the Composition and Quality of Foods of Animal Origin. *In*: Grumezescu, A.M., and A.M. Holban (Hrsg.), Genetically Engineered Foods, Handbook of Food Bioengineering, Vol. 6, Elsevier Academic Press, ISBN: 978-0-1281-1519-0, 442 S., S. 109-141.

Flachowsky, G. 2018. Influencing factors on the iodine content of food: An introductory review of non-animal i-sources. *In*: Beckford, C.L. (Hrsg.), Agriculture, Food, and Food Security: Some Contemporary Global Issues. Nova Science Publishers Inc., ISBN: 978-1-53613-483-4, 242 S., S. 29-58.

Flachowsky, G. 2018. Influencing Factors on the Iodine Content of Food: A Review of Animal Sources of Iodine. *In*: Beckford, C.L. (Hrsg.), Agriculture, Food, and Food Security: Some Contemporary Global Issues. Nova Science Publishers Inc., ISBN: 978-1-53613-483-4, 242 S., S. 81-130.

Globig, A., C. Staubach, B. Grabkowsky, and F.J. Conraths. 2018. Strategien gegen Eindringlinge entwickeln / Biosicherheit in Geflügelbetrieben leben - auf mögliche Schwachstellen achten. *In*: Damme, K., and A. Mayer (Hrsg.), Geflügeljahrbuch 2019 - Schwerpunkt: Biosicherheit und Hygiene, Verlag Eugen Ulmer, Stuttgart, ISBN: 978-3-8186-0406-6, 376 S., S. 16-25.

Hoenen, T. 2018. Minigenome Systems for Filoviruses. *In: Salvato, M.S. (Hrsg.), Hemorrhagic Fever Viruses, Methods in Molecular Biology*, Vol. 1604, Springer, New York, ISBN: 978-1-4939-6980-7 (print)/978-1-4939-6981-4 (online), doi:10.1007/978-1-4939-6981-4_18, S. 237-245.

Kampen, H., and D. Walther. 2018. Vector Potential of Mosquito Species (Diptera: Culicidae) Occurring in Central Europe. *In: Benelli, G., and H. H. Mehlhorn (Hrsg.), Mosquito-borne Diseases, Implications for Public Health, Parasitology Research Monographs*, Vol. 10, Springer, ISBN: 978-3-319-94075-5 (eBook) / 978-3-319-94074-8 (print), doi:10.1007/978-3-319-94075-5_5, S. 41-68.

Mettenleiter, T.C., and E. Reinking. 2018. BSE, Vogelgrippe und Co.: die Bekämpfung von Tierseuchen und Zoonosen in der öffentlichen Wahrnehmung. *In: Fleischer, B., R. Lauterbach, and K. Pawlik (Hrsg.), Rationale Entscheidungen unter Unsicherheit, Abhandlungen der Akademie der Wissenschaften in Hamburg*, Vol. 8, Akademie der Wissenschaften in Hamburg, Hamburg, ISBN: 978-3-11-059830-8 (print)/978-3-11-060026-1 (pdf)/978-3-11-059895-7 (epub), doi:10.1515/9783110600261-003, 240 S., S. 23-45.

Niemann, H. 2018. Haltung und Nutzung von Schweinen im Kontext der Xenotransplantation. *In: Sautermeister, J. (Hrsg.), Tierische Organe in menschlichen Körpern, mentis*, Paderborn, ISBN: 978-3-9574-3011-3, 486 S., S. 87-94.

Rodriguez Diaz, C., C. Seyboldt, and M. Rupnik. 2018. Non-human *C. difficile* Reservoirs and Sources: Animals, Food, Environment. *In: Mastrantonio, P., and M. Rupnik (Hrsg.), Updates on Clostridium difficile in Europe, Advances in Experimental Medicine and Biology/Advances in Microbiology, Infectious Diseases and Public Health*, Vol. 1050, Springer, Cham, ISBN: 978-3-319-72798-1 (print)/978-3-319-72799-8 (online), doi:10.1007/978-3-319-72799-8_13, S. 227-243.

Habilitationen, Dissertationen, PhD Theses, Diplom-, Master- und Bachelorarbeiten

Habilitationen

Fischer, Uwe (IMED): Die Immunantwort von Fischen und deren Bedeutung bei der Bekämpfung von Fischkrankheiten (Universität Rostock)

Kadlec, Kristina (ING): Neue und ungewöhnliche antimikrobielle Resistenzgene bei Staphylokokken, ihr Vorkommen und ihre Mobilität (Tierärztliche Hochschule Hannover)

Taylor, Ulrike (ING): Effects of metal nanoparticle exposure on somatic and reproductive cells (Tierärztliche Hochschule Hannover)

Dissertationen

Ackermann, Ivett (INNT): Early Pathogenesis of Classical Bovine Spongiform Encephalopathy in Young Calves (Tierärztliche Hochschule Hannover)

Apfelbaum, Ronja (ING): Strategie zur Erstellung eines Fanconi-Anämie Modells im Schwein mittels Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) (Tierärztliche Hochschule Hannover)

Bergemann, Christian Alexander (ATB): Untersuchungen zur Tierseuchenausschlussdiagnostik beim Schwein anhand zielgerichteter Beprobung in einem Verarbeitungsbetrieb für Tierische Nebenprodukte (VTN) (Justus-Liebig-Universität Gießen)

Dill, Veronika (IVD): Towards a more efficient control of foot-and-mouth disease outbreaks (Universität Greifswald)

Eggerbauer, Elisa Dorothea (IMVZ): Surveillance and pathogenicity of lyssaviruses (Ludwig-Maximilians-Universität München)

Fischer, Sina (IMP): Physiologische Einflussfaktoren auf die Variabilität flüchtiger organischer Substanzen im caprinen Tiermodell (Freie Universität Berlin)

Fischer, Susanne (IfE): Objektive Eingruppierung sequenzierter Tollwutisolat mithilfe des Affinity Propagation Clusterings (Universität Greifswald)

Forth, Jan Hendrik (IMED): African Swine Fever Virus - Exploring Virus Evolution and Vector Dynamics (Universität Greifswald)

Greiwe, Luisa (ING): Modifikation der microRNA-Expression durch Histonacetylierung im triple-negativen Mammakarzinom (Tierärztliche Hochschule Hannover)

Henritzi, Dinah (IVD): Epidemiology of swine influenza viruses in Europe: Surveillance of domestic pig populations in several European countries 2015-2017 (Tierärztliche Hochschule Hannover)

Heyl, Johannes (IMP): Morphological characterization of vaccine-induced granulomas in goats after subcutaneous vaccination with BCG and genetically modified BCG-derivates (Tierärztliche Hochschule Hannover)

Hillarius, Kirstin (IMP): Replikation, Immunstimulation und Wirtsadaptation verschiedener Chlamydienpezies in humanen und bovinen monozyten-gereiften Makrophagen (Freie Universität Berlin)

Köster, Frauke Juliane (INNT): Etablierung sensitiver biochemischer Methoden zum Nachweis der Bovinen Spongiformen Enzephalopathie in peripheren Organen infizierter Ziegen und Rinder (Tierärztliche Hochschule Hannover)

Kraatz, Franziska (IVD): Molekulare Charakterisierung des neu aufgetretenen Schmollenberg-Virus (Universität Greifswald)

Kunze, Maike (IfE): Validation of blood sampling with *Dipetalogaster maxima* for serological and blood chemical analyses and application of this method in an epidemiologic study on *Toxoplasma gondii* in small exotic felids in European zoos (Freie Universität Berlin)

Leidenberger, Simone (IVD): Porzine epidemische Diarrhoe in Zentraleuropa - Aktuelle Situation und Stammcharakterisierung (Ludwig-Maximilians-Universität München)

Mamerow, Svenja (IMVZ): Development and Evaluation of Double-Attenuated Influenza A Live Vaccines in Swine (Ludwig-Maximilians-Universität München)

Müller, Claudia (IMVZ): A new RHDV-2 vaccine based on recombinant baculovirus - Generation and characterization of induced immunity in rabbits (Ludwig-Maximilians-Universität München)

Nemitz, Sabine (IMVZ): The Cellular Context of Rabies Virus Replication - Cell Culture Adaptation, Intra-Neuronal Virus Transport and Development of Host Gene Targeting Vectors (Universität Greifswald)

Pauker, Viktoria Isabella (IMVZ): Proteome analysis of chicken lymphocytes after infection and transformation by the oncogenic Marek's disease virus (Universität Greifswald)

Pinho dos Reis, Vinicius (INNT): The role of integrins in flavivirus infection (Universität Greifswald)

Pöhlmann, Valeska (ITT): Untersuchung zur alternativen Betäubung von Schlachtschweinen mit einem hochexpansiven, Stickstoff-gefüllten Schaum unter Tierschutz- und Fleischqualitätsaspekten (Freie Universität Berlin)

Press, Franziska (INNT): Vorkommen und Verbreitung genetisch TSE-resistenter Ziegen in Deutschland (Tierärztliche Hochschule Hannover)

Priemer, Grit (INNT): Pathogenese und Erregerdifferenzierung der atypischen L-Typ- und H-Typ-BSE-Infektion bei Rindern (Tierärztliche Hochschule Hannover)

Radomski, Nadine (IfI): Zell- und molekularbiologische Studien zur zellautonomen anti-chlamydialen Abwehr dendritischer Zellen und natürlicher Killerzellen (Universität Greifswald)

Ralle, Isabel (ING): Quantitative analysis of the antigenicity of xenogeneic heart valve matrices using individual human sera (Tierärztliche Hochschule Hannover)

Röttinger, Irene (ING): Isolierung, In-vitro-Kultivierung und Charakterisierung von porzinen und bovinen ovariellen Stammzellen (Tierärztliche Hochschule Hannover)

Schäfers, Stephanie (ITE): Untersuchungen zum Einsatz von konjugierten Linolsäuren (CLA) und Vitamin E, sowie deren Wechselwirkungen, als Interventionsmaßnahme zur Verminderung einer ketotischen Stoffwechselbelastung und des oxidativen Stresses bei peripartalen Milchkühen (Martin-Luther-Universität Halle-Wittenberg)

Schmitz, Rolf (ITE): Changes of performance, energy efficiency, ruminal fermentation and animal health depending on energy concentration in roughage and amounts of concentrates in dairy cows during early lactation (Tierärztliche Hochschule Hannover)

Schwarz, Matthias Florian (IVD): Newcastle Krankheit (ND) bei Puten und ihre Prävention durch Impfung mit einer attenuierten ND-Vakzine (Ludwig-Maximilians-Universität München)

Stroh, Eileen (INNT): Charakterisierung der adaptiven Immunantwort nach Immunisierung mit Henipavirus-ähnlichen Partikeln in Maus und Schwein (Universität Greifswald)

Thomas, Prasad (IBIZ): Genome Sequencing and molecular typing of *Clostridium chauvoei* (Freie Universität Berlin)

Vallbracht, Melina (IMVZ): Identification of essential, dispensable and modulatory domains in the core herpesvirus membrane fusion components gB and gH (Universität Greifswald)

Viña Rodríguez, Ariel (INNT): RNA virus detection and identification using techniques based on DNA hybridization (Universität Greifswald)

Zani, Laura (IVD): Biological and genomic characterization of recent African swine fever strains and field validation of surveillance tools (Ludwig-Maximilians-Universität München)

PhD Theses

Rufener, Christina Barbara (ITT): Keel Bone Fractures in Laying Hens: Effects on Individual Productivity and Mobility (Universität Bern)

Diplomarbeiten

--

Masterarbeiten

Arnold, Leonie (IfE): Effect of vaccinating dams with a combined rotavirus, coronavirus and E. coli vaccine on the occurrence of neonatal diarrhoea in calves: Analysis of data from the Bavarian Pro Gesund project (LMU München)

Brandes, Fabio (IfE): A systematic analysis of paths in temporal networks (TU Berlin)

Brandt, Janine (IMVZ): Analysis of the nuclear localization of the Filovirus matrix protein VP40 (Rheinische Friedrich-Wilhelms-Universität Bonn)

Christiansen, Bahne (IMVZ): Proteome analysis of exosomes secreted by stimulated dendritic cells (Hochschule Bremen)

Czaja, Eva-Maria (IfE): Untersuchung zur Eignung von satellitenerzeugten Süßwassereiskarten für die Ableitung des Vogelzugverhaltens von *Anas acuta* und *Aythya fuligula* (Universität Greifswald)

Steinmetz, Matthias (ITE): Validation of the RumiWatch noseband pressure sensor and prediction of feed intake from chewing behavior and physiological parameters of dairy cows (Georg-August-Universität Göttingen)

Urban, Christian (IfI): Gene expression and viral particle formation of the feline calicivirus (Eberhard-Karls-Universität Tübingen)

Bachelorarbeiten

Giewald, Birthe (ITT): Bestimmung des 17 β -Estradiols im Plasma der Legezuchtlinie WLA (*Gallus gallus domesticus*) mit einem enzymgekoppelten Immunabsorptionstest (ELISA) (Hochschule Bremen)

Helmstädt, Frithjof (IfE): Verbreitung von Schwarzwildkadaverteilen durch Wirbeltiervektoren hinsichtlich der Afrikanischen Schweinepest (TU Dresden)

Knobloch, Marie (IMVZ): Inkorporation heterologer Glykoproteine in Viruspartikel (Universität Greifswald)

Meier, Annika Carolin (IMP): Vergleichende Analysen der Erkennung aviärer T-Zellpopulationen durch verschiedene CD8 α -Marker (Friedrich-Schiller-Universität Jena)

Munkler, Lara Pauline (IfI): Evaluation of the B cell response against *Aeromonas salmonicida* in an Oral stimulation model in Rainbow trout (*Oncorhynchus mykiss*) (Hochschule Esslingen)

Pißarreck, Mona (IfI): Establishment of a Molecular Biological Approach to Generate scFv from Antigen-Specific B Cells of immunized Rabbits (Westfälische Hochschule, Standort Recklinghausen)

Pust, Meike (ITT): Einfluss von Aufzuchtbedingungen auf das Wohlbefinden und Verhalten von Hühnern und Wachteln: Betrachtung der sozialen Umwelanreicherung (Universität Bielefeld)

Waßmann, Irke (NWG Arenaviren): Neutralisierende Junin-Virus-Antikörper und ihre mögliche Kreuzreaktivität (Universität Greifswald)

Zierke, Lukas (IMVZ): Etablierung eines Minigenom Systems für das Lloviu Virus (Universität Greifswald)