

## Publikationen des FLI 2015

### Inhaltsverzeichnis:

Veröffentlichungen in referierten Zeitschriften	S. 2 - 30
Veröffentlichungen in nicht referierten Zeitschriften/ Conference Proceedings	S. 30 - 41
Buchbeiträge	S. 41 - 43
Habilitationen, Dissertationen, PhD Theses, Diplom-, Master- und Bachelorarbeiten	S. 43 - 47

Bearbeitung: Anette Beidler  
Redaktionsschluss: 29.09.2017

## Veröffentlichungen in referierten Zeitschriften

Aaziz, R., P. Gourlay, F. Vorimore, K. Sachse, V.I. Siarkou, and K. Laroucau. 2015. *Chlamydiaceae* in North Atlantic seabirds admitted to a wildlife rescue centre in Western France. *Appl Environ Microbiol* **81**:4581-4590.

Aaziz, R., F. Vorimore, H. Verheyden, D. Picot, C. Bertin, A. Ruetzger, K. Sachse, and K. Laroucau. 2015. Detection of atypical *Chlamydiaceae* in roe deer (*Capreolus capreolus*). *Vet Microbiol* **181**:318-332.

Abdelwhab, E.M., and A.S. Abdel-Moneim. 2015. Epidemiology, Ecology and Gene Pool of Influenza A Virus in Egypt: Will Egypt be the Epicentre of the Next Influenza Pandemic? *Virulence* **6**:6-18.

Abdelwhab, E.M., J. Veits, K. Tauscher, M. Ziller, J.P. Teifke, J. Stech, and T.C. Mettenleiter. 2015. A Unique Multibasic Proteolytic Cleavage Site and Three Mutations in the HA2 Domain Confer High Virulence of H7N1 Avian Influenza Virus in Chickens. *J Virol* [Epub ahead of print; doi:10.1128/JVI.02082-15]

Aberle, D., K.-M. Oetter, and G. Meyers. 2015. Lipid Binding of the Amphipathic Helix Serving as Membrane Anchor of Pestivirus Glycoprotein E<sup>ns</sup>. *PLoS one* **10**:e0135680.

Abutarbush, S.M., A. La Rocca, K. Wernike, M. Beer, K. Al Zuraikat, O.M. Al Sheyab, A.Q. Talafha, and F. Steinbach. 2015. Circulation of a Simbu Serogroup Virus, Causing *Schmallenberg Virus*-Like Clinical Signs in Northern Jordan. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.12468]

Aguilar-Calvo, P., C. Fast, K. Tauscher, J.-C., Espinosa, M.H. Groschup, M. Nadeem, W. Goldmann, J. Langeveld, A. Bossers, O. Andreoletti, and J.-M. Torres. 2015. Effect of Q<sub>211</sub> and K<sub>222</sub>PRNP polymorphic variants in the susceptibility of goats to oral infection with Goat-BSE. *J Infect Dis* [Epub ahead of print; doi: 10.1093/infdis/jiv112]

Ahrens, H.E., B. Petersen, D. Herrmann, A. Lucas-Hahn, P. Hassel, M. Ziegler, W.A. Kues, U. Baulain, W. Baars, R. Schwinzer, J. Denner, D. Rataj, S. Werwitzke, A. Tiede, A.K. Bongoni, P.S. Garimella, A. Despont, R. Rieben, and H. Niemann. 2015. siRNA Mediated Knockdown of Tissue Factor Expression in Pigs for Xenotransplantation. *Am J Transplant* **15**:1407-1414.

Ahrens, H.E., B. Petersen, W. Ramackers, S. Petkov, D. Herrmann, J. Hauschild-Quintern, A. Lucas-Hahn, P. Hassel, M. Ziegler, W. Baars, S. Bergmann, R. Schwinzer, M. Winkler, and H. Niemann. 2015. Kidneys From  $\alpha$ 1,3-Galactosyltransferase Knockout/Human Heme Oxygenase-1/Human A20 Transgenic Pigs Are Protected From Rejection During Ex Vivo Perfusion With Human Blood. *Transplantation Direct* **1**(6):1-8.

Alessio, A.P., A.E. Fili, W. Garrels, D.O. Forcato, M.F. Olmos Nicotra, A.C. Liaudat, R.J. Bevacqua, V. Savy, M.I. Hiriart, T.R. Talluri, J.B. Owens, Z. Ivics, D.F. Salamone, S. Moisyadi, W.A. Kues, and P. Bosch. 2015. Establishment of cell-based transposon-mediated transgenesis in cattle. *Theriogenology* [Epub ahead of print; doi:10.1016/j.theriogenology.2015.12.016]

Ali, S., S. Akhter, H. Neubauer, F. Melzer, I. Khan, Q. Ali, and M. Irfan. 2015. Serological, cultural, and molecular evidence of *Brucella* infection in small ruminants in Pakistan. *J Infect Dev Countr* **9**:470-475.

Amaro, F., L. Zé-Zé, M.J. Alves, J. Börstler, J. Clos, S. Lorenzen, S.C. Becker, J. Schmidt-Chanasit, and D. Cadar. 2015. Co-circulation of a novel phlebovirus and Massilia virus in sandflies, Portugal. *Virology J* **12**:174.

Amram, E., I. Mikula, C. Schnee, R.D. Ayling, R.A.J. Nicholas, R.S. Rosales, S. Harrus, and I. Lysnyansky. 2015. 16S rRNA Gene Mutations Associated with Decreased Susceptibility to Tetracycline in *Mycoplasma bovis*. *Antimicrob Agents Chemother* **59**:796-802.

- Arafa, A.S., M.M. Naguib, C. Luttermann, A.A. Selim, W.H. Kilany, N. Hagag, A. Samy, A. Abdelhalim, M.K. Hassan, E.M. Abdelwhab, Y. Makonnen, G. Dauphin, J. Lubroth, T.C. Mettenleiter, M. Beer, C. Grund, and T.C. Harder. 2015. Emergence of a novel cluster of influenza A(H5N1) virus clade 2.2.1.2 with putative human health impact in Egypt, 2014/15. *Eurosurveillance* **20**(13):1-12.
- Balling, A., M. Beer, D. Gniel, and M. Pfeffer. 2015. Zum Vorkommen von Antikörpern gegen das Frühsommer-Meningoenzephalitis-Virus bei Hunden im Freistaat Sachsen, Deutschland. *Berl Münch Tierärztl Wschr* **128**:297-303.
- Bandouchova, H., T. Bartonicka, H. Berkova, J. Brichta, J. Cerny, V. Kovacova, M. Kolarik, B. Köllner, P. Kulich, N. Martinková, Z. Rehak, G.G. Turner, J. Zuka, and J. Pikula. 2015. *Pseudogymnoascus destructans*: Evidence of Virulent Skin Invasion for Bats Under Natural Conditions, Europe. *Transbound Emerg Dis* **62**:1-5.
- Bannert, E., T. Tesch, J. Kluess, J. Frahm, S. Kersten, S. Kahlert, L. Renner, H.-J. Rothkötter, and S. Dänicke. 2015. Metabolic and Hematological Consequences of Dietary Deoxynivalenol Interacting with Systemic *Escherichia coli* Lipopolysaccharide. *Toxins* **7**:4773-4796.
- Barchanski, A., U. Taylor, C.L. Sajti, L. Gamrad, W.A. Kues, D. Rath, and S. Barcikowski. 2015. Bioconjugated Gold Nanoparticles Penetrate Into Spermatozoa Depending on Plasma Membrane Status. *J Biomed Nanotechnol* **11**:1597-1607.
- Bargiela, R., C. Gertler, M. Magagnini, F. Mapelli, J. Chen, D. Daffonchio, P.N. Golyshin, and M. Ferrer. 2015. Degradation Network Reconstruction in Uric Acid and Ammonium Amendments in Oil-Degrading Marine Microorganisms Guided by Metagenomic Data. *Front Microbiol* **6**:1270.
- Bargiela, R., F. Mapelli, D. Rojo, B. Chouaia, J. Tornés, S. Borin, M. Richter, M.V. Del Pozo, S. Cappello, C. Gertler, M. Genovese, R. Denaro, M. Martínez-Martínez, S. Fodelianakis, R.A. Amer, D. Bigazzi, X. Han, J. Chen, T.N. Chernikova, O.V. Golyshina, M. Mahjoubi, A. Jaouanil, F. Benzha, M. Magagnini, E. Hussein, F. Al-Horani, A. Cherif, M. Blaghen, Y.R. Abdel-Fattah, N. Kalogerakis, C. Barbas, H.I. Malkawi, P.N. Golyshin, M.M. Yakimov, D. Daffonchio, and M. Ferrer. 2015. Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature. *Sci Rep* **5**:11615.
- Barth, S., L. Geue, A. Hinsching, M. Jenckel, J. Schlosser, M. Eiden, J. Pietschmann, C. Menge, M. Beer, M. Groschup, F. Jori, E. Etter, and S. Blome. 2015. Experimental Evaluation of Faecal *Escherichia coli* and Hepatitis E Virus as Biological Indicators of Contacts Between Domestic Pigs and Eurasian Wild Boar. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.12389]
- Bauer, A., T. Nolden, S. Nemitz, E. Perlson, and S. Finke. 2015. A Dynein light chain 1 binding motif in RABV polymerase L protein plays a role in microtubule re-organization and viral primary transcription. *J Virol* **89**:9591-9600.
- Beer, M., K.V. Goller, C. Staubach, and S. Blome. 2015. Genetic variability and distribution of Classical swine fever virus. *Anim Health Res Rev* **16**:33-39.
- Beissinger, T.M., M. Gholami, M. Erbe, S. Weigend, A. Weigend, N. de Leon, D. Gianola, and H. Simianer. 2015. Using the variability of linkage disequilibrium between subpopulations to infer sweeps and epistatic selection in a diverse panel of chickens. *Heredity* [Epub ahead of print; doi:10.1038/hdy.2015.81]
- Berens, C., S. Bisle, L. Klingenbeck, and A. Lührmann. 2015. Applying an inducible expression system to study interference of bacterial virulence factors with intracellular signaling. *J Vis Exp* **100**:e52903.
- Berens, C., F. Groher, and B. Suess. 2015. RNA aptamers as genetic control devices: The potential of riboswitches as synthetic elements for regulating gene expression. *Biotechnol J* **10**:246-257.

- Berger, S., M. Schlather, G. de los Campos, S. Weigend, R. Preisinger, M. Erbe, and H. Simianer.** 2015. A Scale-Corrected Comparison of Linkage Disequilibrium Levels between Genic and Non-Genic Regions. *PLoS one* **10**:e0141216.
- Bergmann, A., P. Trefz, S. Fischer, K. Klepik, G. Walter, M. Steffens, M. Ziller, J.K. Schubert, P. Reinhold, H. Köhler, W. Miekisch.** 2015. *In Vivo* Volatile Organic Compound Signatures of *Mycobacterium avium* subsp. *paratuberculosis*. *PLoS one* **10**:e0123980.
- Black, M., P. Moolhuijzen, R. Barrero, T. La, N. Phillips, D. Hampson, W. Herbst, S. Barth, and M. Bellgard.** 2015. Analysis of Multiple *Brachyspira hyodysenteriae* Genomes Confirms That the Species Is Relatively Conserved but Has Potentially Important Strain Variation. *PLoS one* **10**:e0131050.
- Blodkamp, S., K. Kadlec, T. Gutsmann, H.Y. Naim, M. von Köckritz-Blickwede, and S. Schwarz.** 2015. *In vitro* activity of human and animal cathelicidins against livestock-associated methicillin-resistant *Staphylococcus aureus*. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.09.018]
- Blohm, U., S. Weigend, R. Preisinger, M. Beer, and D. Hoffmann.** 2015. Immunological competence of different domestic chicken breeds against avian influenza infection. *Avian Dis* [Epub ahead of print]
- Bögelein, S., J.B. Kjaer, J. Bennewitz, and W. Bessei.** 2015. The phenotypic interrelationships between feather pecking, being feather pecked, feather eating, feather score, fear, body weight, and egg production traits in a F2-cross of White Leghorn lines selected for high and low severe feather pecking. *Europ Poult Sci* **79**:1-12.
- Böhm, S., M. Backovic, B.G. Klupp, F.A. Rey, T.C. Mettenleiter, and W. Fuchs.** 2015. Functional characterization of glycoprotein H chimeras composed of conserved domains of the pseudorabies virus and herpes simplex virus type 1 homologs. *J Virol* [Epub ahead of print; doi:10.1128/JVI.01985-15]
- Böhm, S., M. Backovic, B.G. Klupp, F.A. Rey, T.C. Mettenleiter, and W. Fuchs.** 2015. The replication defect of pseudorabies virus induced by targeted  $\alpha$ -helix distortion in the syntaxin-like bundle of glycoprotein H (V275P) is corrected by an adjacent compensatory mutation (V271A). *J Gen Virol* **96**:2349-2354.
- Böhm, S.W., E. Eckroth, M. Backovic, B.G. Klupp, F.A. Rey, T.C. Mettenleiter, and W. Fuchs.** 2015. Structure-Based Functional Analyses of Domains II and III of Pseudorabies Virus Glycoprotein H. *J Virol* **89**:1364-1376.
- Bosch, P., D.O. Forcato, F.E. Alustiza, A.P. Alessio, A.E. Fili, M.F. Olmos Nicotra, A.C. Liaudat, N. Rodriguez, T.R. Talluri, and W.A. Kues.** 2015. Exogenous enzymes upgrade transgenesis and genetic engineering of farm animals. *Cell Mol Life Sci* **72**:1907-1929.
- Brade, W., U. Dämmgen, H.-D. Haenel, C. Rösemann, U. Meyer, and M. Schwerin.** 2015. Rindfleischerzeugung und Luftverschmutzung. 5. Mögliche Emissionsminderungen durch Nutzung von Fleckvieh x Holstein-Kreuzungen. *Züchtungskunde* **87**:319-334.
- Braukmann, M., U. Methner, and A. Berndt.** 2015. Immune Reaction and Survivability of *Salmonella* Typhimurium and *Salmonella* Infantis after Infection of Primary Avian Macrophages. *PLoS one* **10**:e0122540.
- Braukmann, M., U. Methner, and A. Berndt.** 2015. Avian CD25<sup>+</sup> gamma/delta ( $\gamma\delta$ ) T cells after *Salmonella* exposure. *Vet Immunol Immunopathol* **168**:14-18.
- Brenninkmeyer, C., S. Dippel, J. Brinkmann, S. March, C. Winckler, and U. Knierim.** 2015. Investigating integument alterations in cubicle housed dairy cows: which types and locations can be combined? *Animal* [Epub ahead of print; doi: 10.1017/S1751731115001032]

Brezina, U., I. Rempe, S. Kersten, H. Valenta, H.-U. Humpf, and S. Dänicke. 2015. Determination of zearalenone, deoxynivalenol and metabolites in bile of piglets fed diets with graded levels of *Fusarium* toxin contaminated maize. *World Mycotoxin J* [Epub ahead of print; doi:10.3920/WMJ.2015.1902]

Brietzke, A., M. Arnemo, T. Gjøen, H. Rebl, T. Korytář, T. Goldammer, A. Rebl, and H.-M. Seyfert. 2015. Structurally diverse genes encode Tlr2 in rainbow trout: The conserved receptor cannot be stimulated by classical ligands to activate NF-κB in vitro. *Dev Comp Immunol* [Epub ahead of print; doi:10.1016/j.dci.2015.08.012]

Brietzke, A., T. Korytář, J. Jaros, B. Köllner, T. Goldammer, H.-M. Seyfert, and A. Rebl. 2015. *Aeromonas salmonicida* Infection Only Moderately Regulates Expression of Factors Contributing to Toll-like Receptor Signaling but Massively Activates the Cellular and Humoral Branches of Innate Immunity in Rainbow Trout (*Oncorhynchus mykiss*). *J Immunol Res* 2015:901015.

vom Brocke, A.L., D.P. Madey, M. Gaulty, L. Schrader, and S. Dippel. 2015. Training veterinarians and agricultural advisers on a novel tool for tail biting prevention. *Vet Rec Open* 2:000083.

Bünger, B., L. Schrader, H. Schrade, and B. Zacharias. 2015. Agonistic behaviour, skin lesions and activity pattern of entire male, female and castrated male finishing pigs. *Appl Anim Behav* 171:64-68.

Cabal, A., L. Geue, S. Gómez-Barrero, S. Barth, C. Bárcena, K. Hamm, M.C. Porrero, A. Valverde, R. Cantón, C. Menge, C. Gortazar, L. Domínguez, and J. Álvarez. 2015. Detection of virulence-associated genes characteristic of intestinal *Escherichia coli* pathotypes, including the Enterohemorrhagic/Enteroaggregative O104:H4 in bovines from Germany and Spain. *Microbiol Immunol* 59:433-442.

Cai, J., Y. Wang, S. Schwarz, H. Lv, Y. Li, K. Liao, S. Yu, K. Zhao, D. Gu, X. Wang, R. Zhang, and J. Shen. 2015. Enterococcal isolates carrying the novel oxazolidinone resistance gene *optrA* from hospitals in Zhejiang, Guangdong, and Henan, China, 2010-2014. *Clin Microbiol Infect* 21:1095.e1-1095.e4.

Campe, A., C. Hoes, S. Koesters, C. Froemke, W. Bessei, U. Knierim, L. Schrader, L. Kreienbrock, and P. Thobe. 2015. Determinants of economic success in egg production in Germany - here: laying hens kept in aviaries or small-group housing systems. *Landbauforsch - Appl Agric Forestry Res* [Epub ahead of print; doi: 10.3220/LBF1447678999000]

Campero, L.M., L. Minke, G. Moré, M. Rambeaud, D. Bacigalupe, D.P. Moore, Y. Hecker, C.M. Campero, G. Schares, and M.C. Venturini. 2015. Evaluation and comparison of serological methods for the detection of bovine neosporosis in Argentina. *Rev Argent Microbiol* 47:295-301.

Campero, L.M., M.C. Venturini, D.P. Moore, L. Massola, H. Lagomarsino, B. García, D. Bacigalupe, M. Rambeaud, L. Pardini, M.R. Leunda, G. Schares, and C.M. Campero. 2015. Isolation and molecular characterization of a new *Neospora caninum* isolate from cattle in Argentina. *Exp Parasitol* 155:8-12.

Carroll, M.W., D.A. Matthews, J.A. Hiscox, M.J. Elmore, G. Pollakis, A. Rambaut, R. Hewson, I. García-Dorival, J.A. Bore, R. Koundouno, S. Abdellati, B. Afrough, J. Aiyepada, P. Akhilomen, D. Asogun, B. Atkinson, M. Badusche, A. Bah, S. Bate, J. Baumann, D. Becker, B. Becker-Ziaja, A. Bocquin, B. Borremans, A. Bosworth, J.P. Boettcher, A. Cannas, F. Carletti, C. Castilletti, S. Clark, F. Colavita, S. Diederich, A. Donatus, S. Duraffour, D. Ehichioya, H. Ellerbrok, M.D. Fernandez-García, A. Fizet, E. Fleischmann, S. Gryseels, A. Hermelink, J. Hinzmann, U. Hopf-Guevara, Y. Ighodalo, L. Jameson, A. Kelterbaum, Z. Kis, S. Kloth, C. Kohl, M. Korva, A. Kraus, E. Kuisma, A. Kurth, B. Liedigk, C.H. Logue, A. Lüdtke, P. Maes, J. McCowen, S. Mély, M. Mertens, S. Meschi, B. Meyer, J. Michel, P. Molkenhain, C. Muñoz-Fontela, D. Muth, E.N.C. Newman, D. Ngabo, L. Oestereich, J. Okosun, T. Olorok, R. Omiunu, E. Omomoh, E. Pallasch, B. Pályi, J. Portmann, T. Pottage, C. Pratt, S. Priesnitz, S. Quartu, J. Rappe, J. Repits, M. Richter, M. Rudolf, A. Sachse, K.M. Schmidt, G. Schudt, T. Strecker, R. Thom, S. Thomas, E. Tobin, H. Tolley, J. Trautner, T. Vermoesen, I. Vitoriano, M. Wagner, S. Wolff, C. Yue, M.R. Capobianchi, B. Kretschmer, Y. Hall, J.G. Kenny, N.Y. Rickett, G. Dudas, C.E.M. Coltart, R. Kerber, D. Steer, C. Wright, F. Senyah, S. Keita, P. Drury, B. Diallo, H. de Clerck, M. Van Herp, A. Sprecher, A. Traore, M. Diakite, M.K.

Konde, L. Koivogui, N. Magassouba, T. Avšič-Zupanc, A. Nitsche, M. Strasser, G. Ippolito, S. Becker, K. Stoecker, M. Gabriel, H. Raoul, A. Di Caro, R. Wölfel, P. Formenty, and S. Günther. 2015. Temporal and spatial analysis of the 2014-2015 Ebola virus outbreak in West Africa. *Nature* **524**(7563):97-101.

Casey-Trott, T., J.L.T. Heerkens, M. Petrik, P. Regmi, L. Schrader, M.J. Toscano, and T. Widowski. 2015. Methods for assessment of keel bone damage in poultry. *Poultry Sci* **94**:2339-2350.

Caspers, B.A., A. Gagliardo, and E.T. Krause. 2015. Impact of kin odour on reproduction in zebra finches. *Behav Ecol Sociobiol* **69**:1827-1833.

Ceccobelli, S., P. Di Lorenzo, H. Lancioni, L.V. Monteagudo Ibáñez, M.J. Tejedor, C. Castellini, V. Landi, A. Martínez Martínez, J.V. Delgado Bermejo, J.L. Vega Pla, J.M. Leon Jurado, N. García, G. Attard, A. Grimal, S. Stojanovic, K. Kume, F. Panella, S. Weigend, and E. Lasagna. 2015. Genetic diversity and phylogeographic structure of sixteen Mediterranean chicken breeds assessed with microsatellites and mitochondrial DNA. *Livestock Sci* **175**:27-36.

Chinikar, S., N. Shah-Hosseini, S. Bouzari, M.A. Shokrgozar, E. Mostafavi, T. Jalali, S. Khakifirouz, M.H. Groschup, and M. Niedrig. 2015. Assessment of Recombination in the S-segment Genome of Crimean-Congo Hemorrhagic Fever Virus in Iran. *J Arthropod-Borne Dis* [Epub ahead of print]

Conraths, F.J., and P. Deplazes. 2015. *Echinococcus multilocularis*: epidemiology, surveillance and state-of-the-art diagnostics from a veterinary public health perspective. *Vet Parasitol* **213**:149-161.

Conraths, F.J., C. Sauter-Louis, A. Globig, K. Dietze, G. Pannwitz, K. Albrecht, D. Höreth-Böntgen, M. Beer, C. Staubach, and T. Homeier-Bachmann. 2015. Highly Pathogenic Avian Influenza H5N8 in Germany: Outbreak Investigations. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.12443]

Couto, N., A. Belas, K. Kadlec, S. Schwarz, and C. Pomba. 2015. Clonal diversity, virulence patterns and antimicrobial and biocide susceptibility among human, animal and environmental MRSA in Portugal. *J Antimicrob Chemother* **70**:2483-2487.

Dämmgen, U., W. Brade, U. Meyer, H.-D. Haenel, C. Rösemann, and M. Schwerin. 2015. Rindfleischerzeugung und Luftverschmutzung. 3. Einfluss einer unterschiedlichen Mastdauer und -intensität auf die Emissionen von Treibhausgasen und Ammoniak bei der Fleischerzeugung mit Fleckvieh-Mutterkuhherden. *Züchtungskunde* **87**:153-180.

Dämmgen, U., W. Brade, U. Meyer, H.-D. Haenel, C. Rösemann, and M. Schwerin. 2015. Rindfleischerzeugung und Luftverschmutzung. 4. Einfluss von Nutzungsdauer, Tierverlusten sowie Haltungsverfahren auf Emissionen aus Verdauung und Wirtschaftsdüngermanagement in der Fleischerzeugung mit Mutterkuhherden. *Züchtungskunde* **87**:227-248.

Dänicke, S. 2015. Ergot Alkaloids in Feed for Pekin Ducks: Toxic Effects, Metabolism and Carry Over into Edible Tissues. *Toxins* **7**:2006-2023.

Dänicke, S., U. Meyer, and L. Geue. 2015. Dynamics of total and Shiga-toxin (Stx) forming *Escherichia coli* shedding with faeces of dairy cows experiencing a change from a low to a high caloric diet. *J Verbr Lebensm* **10**:23-28.

Dänicke, S., and J. Winkler. 2015. Invited review: Diagnosis of zearalenone (ZEN) exposure of farm animals and transfer of its residues into edible tissues (Carry over). *Food Chem Tox* **84**:225-249.

Denner, J., B. Petersen, and H. Niemann. 2015. Tolerance and immune response to the porcine endogenous retrovirus in German landrace pigs immunised with viral proteins. *Virus Res* **208**:39-43.

Diederich, S., Y. Berhane, C. Embury-Hyatt, T. Hisanaga, K. Handel, C. Cottam-Birt, C. Ranadheera, D. Kobasa, and J. Pasick. 2015. Hemagglutinin-Neuraminidase Balance Influences the

Virulence Phenotype of a Recombinant H5N3 Influenza A Virus Possessing a Polybasic HA<sub>0</sub> Cleavage Site. *J Virol* **89**:10724-10734.

Donat, K., N. Hahn, T. Eisenberg, K. Schlez, H. Köhler, W. Wolter, M. Rohde, R. Pützschel, U. Rösler, K. Failing, and P.M. Zschöck. 2015. Within-herd prevalence thresholds for the detection of *Mycobacterium avium* subspecies *paratuberculosis*-positive dairy herds using boot swabs and liquid manure samples. *Epidemiol Infect* [Epub ahead of print; doi:10.1017/S09502688150000977]

Dräger, C., M. Beer, and S. Blome. 2015. Porcine complement regulatory protein CD46 and heparan sulfates are the major factors for classical swine fever virus attachment *in vitro*. *Arch Virol* **160**:739-746.

Dräger, C., A. Petrov, M. Beer, J.P. Teifke, and S. Blome. 2015. Classical swine fever virus marker vaccine strain CP7\_E2alf: Shedding and dissemination studies in boars. *Vaccine* **33**:3100-3103.

Drexler, J.F., V.M. Corman, A.N. Lukashev, J.M.A. van den Brand, A.P. Gmyl, S. Bünink, A. Rasche, N. Seggwiß, H. Feng, L.M. Leijten, P. Vallo, T. Kuiken, A. Dotzauer, R.G. Ulrich, S.M. Lemon, C. Drosten, and the Hepatovirus Ecology Consortium. 2015. Evolutionary origins of hepatitis A virus in small mammals. *Proc Natl Acad Sci USA* **112**:15190-15195.

Drolet, B.S., P. van Rijn, E.W. Howerth, M. Beer, and P.P. Mertens. 2015. A Review of Knowledge Gaps and Tools for Orbivirus Research. *Vector-Borne Zoon Dis* **15**:339-347.

Drong, C., U. Meyer, D. von Soosten, J. Frahm, J. Rehage, G. Breves, and S. Dänicke. 2015. Effect of monensin and essential oils on performance and energy metabolism of transition dairy cows. *J Anim Physiol Anim Nutr* [Epub ahead of print; doi:10.1111/jpn.12401]

Dubey, J.P., G. Moré, E. van Wilpe, R. Calero-Bernal, Shiv.K.Verma, and G. Schares. 2015. *Sarcocystis rommeli*, n. sp. (Apicomplexa: Sarcocystidae) from Cattle (*Bos taurus*) and Its Differentiation from *Sarcocystis hominis*. *J Eukaryot Microbiol* [Epub ahead of print; doi:10.1111/jeu.12248-4663]

Dumke, R., C. Schnee, M.W. Pletz, J. Rupp, E. Jacobs, K. Sachse, G. Rohde, and CAPNETZ Study Group. 2015. *Mycoplasma pneumoniae* and *Chlamydia* spp. Infection in Community-Acquired Pneumonia, Germany, 2011-2012. *Emerg Infect Dis* **21**:426-434.

Eckardt, M., C. Freuling, T. Müller, and T. Selhorst. 2015. Spatio-temporal analysis of fox rabies cases in Germany 2005-2006. *Geospat Health* **10**:313.

Eger, M., J. Hussen, C. Drong, U. Meyer, D. von Soosten, J. Frahm, S. Daenicke, G. Breves, and H.-J. Schuberth. 2015. Impacts of parturition and body condition score on glucose uptake capacity of bovine monocyte subsets. *Vet Immunol Immunopathol* **166**:33-42.

Eger, M., J. Hussen, M. Koy, S. Dänicke, H.-J. Schuberth, and G. Breves. 2015. Glucose transporter expression differs between bovine monocyte and macrophage subsets and is influenced by milk production. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2015-10435]

Ehlers, B., D. Richter, F.-R. Matuschka, and R.G. Ulrich. 2015. Genome Sequences of a Rat Polyomavirus Related to Murine Polyomavirus, *Rattus norvegicus* Polyomavirus 1. *Genome Announcements* **3**:e00997-15.

Eidam, C., A. Poehlein, A. Leimbach, G.B. Michael, K. Kadlec, H. Liesegang, R. Daniel, M.T. Sweeney, R.W. Murray, J.L. Watts, and S. Schwarz. 2015. Analysis and comparative genomics of ICEMh1, a novel integrative and conjugative element (ICE) of *Mannheimia haemolytica*. *J Antimicrob Chemother* **70**:93-97.

Eiden, M., A. Vina-Rodriguez, J. Schlosser, H. Schirrmeier, and M.H. Groschup. 2015. Detection of Hepatitis E Virus in Archived Rabbit Serum Samples, Germany 1989. *Food Environ Virol* [Epub ahead of print; doi:10.1007/s12560-015-9222-4]

- Eisenberg, T., A. Nessler, C. Sauerwald, U. Kling, K. Riße, U. Kaim, G. Althoff, N. Fiege, K. Schlez, H.-P. Hamann, A. Fawzy, I. Moser, R. Riße, G. Kraft, M. Zschöck, and C. Menge. 2015. *Mycobacterium tuberculosis* exposure of livestock in a German dairy farm: implications for intra vitam diagnosis of bovine tuberculosis in an officially tuberculosis-free country. *Epidemiol Infect* [Epub ahead of print; doi:10.1017/S0950268815001995]
- El-Adawy, H., M.F.E. Ahmed, H. Hotzel, H. Tomaso, B.-A. Tenhagen, J. Hartung, H. Neubauer, and H.M. Hafez. 2015. Antimicrobial susceptibilities of *Campylobacter jejuni* and *Campylobacter coli* recovered from organic turkey farms in Germany. *Poultry Sci* **94**:2831-2837.
- El-Ashker, M., M. Gwida, H. Tomaso, S. Monecke, R. Ehricht, F. El-Gohary, and H. Hotzel. 2015. Staphylococci in cattle and buffaloes with mastitis in Dakahlia Governorate, Egypt. *J Dairy Sci* **98**:7450-7459.
- El-Ashker, M., H. Hotzel, M. Gwida, M. El-Beskawy, C. Silaghi, and H. Tomaso. 2015. Molecular biological identification of *Babesia*, *Theileria*, and *Anaplasma* species in cattle in Egypt using PCR assays, gene sequence analysis and a novel DNA microarray. *Vet Parasitol* **207**:329-334.
- El Rahman, S.A., B. Hoffmann, B. Haas, M. El Beskawy, M. Othman, and M. Eladl. 2015. Rapid Molecular Detection of Genetically Diverted Foot and Mouth Disease Virus Serotype O During the Outbreak of 2012 in Egypt. *Int J Virol* **11**:96-111.
- Ellrichmann, M., S. Dhar, K.-G. Hadeler, F. Seehusen, T. Cuming, A.T. Feßler, H. Niemann, S. Schwarz, and A. Fritscher-Ravens. 2015. Risk of infection after iatrogenic perforation of the gut wall? Evaluation of preventive strategies in a randomized controlled animal trial. *Surg Endosc* [Epub ahead of print; doi:10.1007/s00464-015-4600-4]
- Entorf, M., A.T. Feßler, H. Kaspar, K. Kadlec, T. Peters, and S. Schwarz. 2015. Comparative erythromycin and tylosin susceptibility testing of streptococci from bovine mastitis. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.12.003]
- Erbs, M., R. Manderscheid, L. Hüther, A. Schenderlein, H. Wieser, S. Dänicke, and H.-J. Weigel. 2015. Free-air CO<sub>2</sub> enrichment modifies maize quality only under drought stress. *Agron Sustain Dev* **35**:203-212.
- Erfan, A.M., A.A. Selim, M.K. Morsi, S.A. Nasef, and E.M. Abdelwhab. 2015. Epidemiology and molecular characterization of duck hepatitis. A virus from different duck breeds in Egypt. *Vet Microbiol* **177**:347-352.
- Eschbaumer, M., W.M. Li, K. Wernike, F. Marshall, and M. Czub. 2015. Probe-free real-time reverse transcription polymerase chain reaction assays for the detection and typing of porcine reproductive and respiratory syndrome virus in Canada. *Can J Vet Res* **79**:170-179.
- Fahnøe, U., A.G. Pedersen, C. Dräger, R.J. Orton, S. Blome, D. Höper, M. Beer, and T.B. Rasmussen. 2015. Creation of Functional Viruses from Non-Functional cDNA Clones Obtained from an RNA Virus Population by the Use of Ancestral Reconstruction. *PLoS one* **10**:e0140912.
- Falson, P., B. Bartosch, K. Alsaleh, B.A. Tews, A. Loquet, Y. Ciczora, L. Riva, C. Montigny, C. Montpellier, G. Duverlie, E.-I. Pécheur, M. le Maire, F.-L. Cosset, J. Dubuisson, and F. Penin. 2015. Hepatitis C Virus Envelope Glycoprotein E1 Forms Trimers at the Surface of the Virion. *J Virol* **89**:10333-10346.
- Fereidouni, S., L. Kwasnitschka, A. Balkema-Buschmann, T. Müller, C. Freuling, J. Schatz, J. Pikula, H. Bandouchova, R. Hoffmann, B. Ohlendorf, G. Kerth, S. Tong, R. Donis, M. Beer, and T. Harder. 2015. No Virological Evidence for an Influenza A-like Virus in European Bats. *Zoonoses Publ Health* **62**:187-189.



Fereidouni, S.R., E. Starick, M. Ziller, T.C. Harder, H. Unger, K. Hamilton, and A. Globig. 2015. Sample preparation for avian and porcine influenza virus cDNA amplification simplified: Boiling vs. conventional RNA extraction. *J Virol Methods* **221**:62-67.

Ferreira, C.R., A.K. Jamusch, V. Pirro, C.M. Alfaro, A.F. González-Serrano, H. Niemann, M.B. Wheeler, R.A.C. Rabel, J.E. Hallett, R. Houser, A. Kaufman, and R.G. Cooks. 2015. Ambient ionisation mass spectrometry for lipid profiling and structural analysis of mammalian oocytes, preimplantation embryos and stem cells. *Reprod Fertil Dev* **27**:621-637.

Fiedler, A., C. Sauter-Louis, and J. Maierl. 2015. Polyurethane dressing, tetracycline and salicylic acid use for treatment of digital dermatitis in cattle. *Tierärztl Prax* **43(G)** **43(G)**:350-358.

Fischer, D., J. Angenvoort, U. Ziegler, C. Fast, K. Maier, S. Chabierski, M. Eiden, S. Ulbert, M.H. Groschup, and M. Lierz. 2015. DNA vaccines encoding the envelope protein of West Nile virus lineages 1 or 2 administered intramuscularly, via electroporation and with recombinant virus protein induce partial protection in large falcons (*Falco* spp.). *Vet Res* **46**:87.

Fischer, K., V.P. Dos Reis, S. Finke, L. Sauerhering, E. Stroh, A. Karger, A. Maisner, M.H. Groschup, S. Diederich, and A. Balkema-Buschmann. 2015. Expression, characterisation and antigenicity of a truncated Hendra virus attachment protein expressed in the protozoan host *Leishmania tarentolae*. *J Virol Methods* [Epub ahead of print; doi:10.1016/j.jviromet.2015.011.006]

Fischer, K., V. Zeus, L. Kwasnitschka, G. Kerth, M. Haase, M.H. Groschup, and A. Balkema-Buschmann. 2015. Insectivorous bats carry host specific astroviruses and coronaviruses across different regions in Germany. *Infect Gent Evol* **37**:108-116.

Fischer, S., A. Bergmann, M. Steffens, P. Trefz, M. Ziller, W. Miekisch, J.S. Schubert, H. Köhler, and P. Reinhold. 2015. Impact of food intake on *in vivo* VOC concentrations in exhaled breath assessed in a caprine animal model. *J Breath Res* **9(4)**:047113.

Fischer, S., P. Trefz, A. Bergmann, M. Steffens, M. Ziller, W. Miekisch, J.S. Schubert, H. Köhler, and P. Reinhold. 2015. Physiological variability in volatile organic compounds (VOCs) in exhaled breath and released from faeces due to nutrition and somatic growth in a standardized caprine animal model. *J Breath Res* **9(2)**:027108.

Flachowsky, G. 2015. Wachstum verursacht Emissionen. *Fleischwirtschaft* **95(6)**:16-24.

Flachowsky, G. 2015. Book review: Energy and Protein Metabolism and Nutrition in Sustainable Animal Production, J.W. Oltjen, A. Kebreab, H. Lapierre (Eds.). EAAP Publication No. 134; Wageningen Academic Publishers, Wageningen, The Netherlands (2013). Hardcover, 535 pp., Price: 115 €; 163 US\$; 89.64 £; hardback ISBN: 978 90 8686 227 6; e-book ISBN: 978-90-8686-781-3. *Anim Feed Sci Technol* **202**:112-113.

Flachowsky, G. 2015. Book review: Handbook on the Toxicology of Metals, G.F. Nordberg, B.A. Fowler, M. Nordberg (Eds.), Fourth ed., Volume I: General Considerations, Volume II: Specific Metals Academic Press as an imprint of Elsevier, Amsterdam (2015). 1385 pp., Hardcover, Price: 358.93 USD; 290.00 €; 229.53 GBP; ISBN: 978-0-444-594532-2 (Set); 978-0-12-388292-6 (Vol. I) (print); 978-0-12-398293-2 (Vol. II). *Anim Feed Sci Technol* **200**:118-119.

Flachowsky, G. 2015. Book review: Intestinal Health-Key to Maximise Growth Performance in Livestock. Theo Niewold (Ed.), Wageningen Academic Publishers, Wageningen, The Netherlands, 2015, Hardcover, 276 pp., Price: 89 €; 108,49 US\$; £ 69,65; hardback ISBN: 978 90 76998 91 6; e-book ISBN: 978-90-8686-792-9. *Anim Feed Sci Technol* **201**:120-121.

Flachowsky, G. 2015. Book review: Proceedings of the Society of Nutrition Physiology, vol. 24. DLG-Verlag GmbH, Frankfurt am Main, Germany (2015), 196 pp., Price: 29.90 € plus postage, Softcover, ISBN: 978-3-7690-4108-8. *Anim Feed Sci Technol* **207**:295-296.

- Flachowsky, G., and U. Meyer. 2015. Challenges for Plant Breeders from the View of Animal Nutrition. *Agriculture* 4:1252-1276.
- Flachowsky, G., and U. Meyer. 2015. Sustainable production of protein of animal origin - the state of knowledge. Part 1. Resources and emissions as factors affecting sustainability. *J Anim Feed Sci* 24:273-282.
- Flachowsky, G., and U. Meyer. 2015. Sustainable production of protein of animal origin - the state of knowledge. Part 2. Aquirements, objectives and ways of sustainability improvement. *J Anim Feed Sci* 24:283-294.
- Freuling, C.M., T. Binger, M. Beer, Y. Adu-Sarkodie, J. Schatz, M. Fischer, D. Hanke, B. Hoffmann, D. Höper, T.C. Mettenleiter, S.K. Oppong, C. Drosten, and T. Müller. 2015. Lagos bat virus transmission in an Eidolon helvum bat colony, Ghana. *Virus Res* 210:42-45.
- Friedauer, K., S. Dänicke, K. Schulz, H. Sauerwein, and S. Häussler. 2015. Detection of 11 beta-hydroxysteroid dehydrogenase type 1, the glucocorticoid and mineralocorticoid receptor in various adipose tissue depots of dairy cows supplemented with conjugated linoleic acids. *J Anim Physiol Anim Nutr* 99:950-961.
- Friedrichs, P., H. Sauerwein, K. Huber, L.F. Locher, J. Rehage, U. Meyer, S. Dänicke, B. Kuhla, and M. Mielenz. 2015. Expression of metabolic sensing receptors in adipose tissues of periparturient dairy cows with differing extent of negative energy balance. *Animal* [Epub ahead of print; doi:10.1017/S175173111500227X]
- Galvão, C.M.M.de Q., M.M. Rezende-Gondim, A.C.R. Chaves, G. Schares, J.R.L. Ribas, and L.F.P. Gondim. 2015. Brazilian donkeys (*Equus asinus*) have a low exposure to *Neospora* spp. *Rev Bras Parasitol Vet* 24:340-344.
- Garrels, W., A. Mukherjee, S. Holler, N. Cleve, T.R. Talluri, B. Barg-Kues, M. Diederich, P. Köhler, B. Petersen, A. Lucas-Hahn, H. Niemann, Z. Izsvák, Z. Ivics, and W.A. Kues. 2015. Identification and re-addressing of a transcriptionally permissive locus in the porcine genome. *Transgenic Res* [Epub ahead of print; doi:10.1007/s11248-9914-4]
- Garrels, W., T.R. Talluri, M. Ziegler, I. Most, D.O. Forcato, M. Schmeer, M. Schleef, Z. Ivics, and W.A. Kues. 2015. Cytoplasmic injection of murine zygotes with Sleeping Beauty transposon plasmids and minicircles results in the efficient generation of germline transgenic mice. *Biotechnol J* [Epub ahead of print; doi:10.1002/biot.201500218]
- Gertler, C., R. Bargiela, F. Mapelli, X. Han, J. Chen, T. Hai, R.A. Amer, M. Mahjoubi, H. Malkawi, M. Magagnini, A. Cherif, Y.R. Abdel-Fattah, N. Kalogerakis, D. Daffonchio, M. Ferrer, and P.N. Golyshin. 2015. Conversion of Uric Acid into Ammonium in Oil-Degrading Marine Microbial Communities: a Possible Role of Halomonads. *Microb Ecol* [Epub ahead of print; doi: 10.1007/s00248-015-0606-7]
- Gethmann, J., T. Homeier, M. Holsteg, H. Schirrmeier, M. Saßerath, B. Hoffmann, M. Beer, and F.J. Conraths. 2015. BVD-2 outbreak leads to high losses in cattle farms in Western Germany. *Heliyon* 1:e00019.
- Gethmann, J., C. Probst, C. Sauter-Louis, and F.J. Conraths. 2015. Economic analysis of animal disease outbreaks - BSE and Bluetongue disease as examples. *Berl Münch Tierärztl Wschr* 128:478-482.
- Gethmann, J., V. Zilow, C. Probst, A.R.W. Elbers, and F.J. Conraths. 2015. Why German farmers have their animals vaccinated against Bluetongue virus serotype 8: Results of a questionnaire survey. *Vaccine* 33:214-221.
- Gholami, M., C. Reimer, M. Erbe, R. Preisinger, A. Weigend, S. Weigend, B. Servin, and H. Simianer. 2015. Genome Scan for Selection in Structured Layer Chicken Populations Exploiting Linkage Disequilibrium Information. *PLoS one* 10:e0130497.

- Giovannini, S., S.M. Bergmann, C. Keeling, C. Lany, H. Schütze, and H. Schmidt-Posthaus. 2015. Herpesviral Hematopoietic Necrosis in Goldfish in Switzerland: Early Lesions in Clinically Normal Goldfish (*Carassius auratus*). *Vet Pathol* [Epub ahead of print; doi:10.1177/0300985815614974]
- Gluska, S., S. Finke, and E. Perlson. 2015. Receptor-mediated increase in rabies virus axonal transport. *Neural Regen Res* 10:883-884.
- Goller, K.V., C. Dräger, D. Höper, M. Beer, and S. Blome. 2015. Classical swine fever virus marker vaccine strain CP7\_E2alf: genetic stability *in vitro* and *in vivo*. *Arch Virol* 160:3121-3125.
- Goller, K.V., C. Gabriel, M. Le Dimna, M.-F. Le Potier, S. Rossi, C. Staubach, M. Merboth, M. Beer, and S. Blome. 2015. Evolution and molecular epidemiology of Classical swine fever virus during a multi-annual outbreak among European wild boar. *J Gen Virol* [Epub ahead of print; doi:10.1099/jgv.0.000376]
- Goller, K.V., A.S. Malogolovkin, S. Katorkin, D. Kolbasov, I. Titov, D. Höper, M. Beer, G.M. Keil, R. Portugal, and S. Blome. 2015. Tandem Repeat Insertion in African Swine Fever Virus, Russia, 2012. *Emerg Infect Dis* 21:731-732.
- Gollnick, N.S., J.C. Scharr, G. Schares, and M.C. Langenmayer. 2015. Natural *Besnoitia besnoiti* infections in cattle: chronology of disease progression. *BMC Vet Res* 11:35.
- Gondim, L.F.P., J. Meyer, M. Peters, M.M. Rezende-Gondim, M.G. Vrhovec, N. Pantchev, C. Bauer, F.J. Conraths, and G. Schares. 2015. *In vitro* cultivation of *Hammondia heydorni*: generation of tachyzoites, stage conversion into bradyzoites, and evaluation of serologic cross-reaction with *Neospora caninum*. *Vet Parasitol* 210:131-140.
- González-Serrano, A.F., C.R. Ferreira, V. Pirro, A. Lucas-Hahn, J. Heinzmann, K.-G. Haderler, U. Baulain, P. Aldag, U. Meyer, M. Piechotta, G. Jahreis, S. Dänicke, R.G. Cooks, and H. Niemann. 2015. Effects of long-term dietary supplementation with conjugated linoleic acid on bovine oocyte lipid profile. *Reprod Fertil Dev* [Epub ahead of print; doi:10.1071/RD14352]
- Grams, V., R. Wellmann, S. Preuß, M.A. Grashorn, J.B. Kjaer, W. Bessei, and J. Bennewitz. 2015. Genetic parameters and signatures of selection in two divergent laying hen lines selected for feather pecking behaviour. *Genet Sel Evol* 47:77.
- Granja, A.G., E. Leal, J. Pignatelli, R. Castro, B. Abós, G. Kato, U. Fischer, and C. Tafalla. 2015. Identification of Teleost Skin CD8 $\alpha$ <sup>+</sup> Dendritic-like Cells, Representing a Potential Common Ancestor for Mammalian Cross-Presenting Dendritic Cells. *J Immunol* 195:1825-1837.
- Gwida, M., M. El-Ashker, M. El-Diasty, F. Melzer, and H. Neubauer. 2015. Seroprevalence of Bovine Brucellosis in the Nile Delta Region, Egypt: A Preliminary Study. *J Vet Med Res* 2(5):1037.
- Hänsel, C., K. Mertens, M.C. Elschner, and F. Melzer. 2015. Novel real-time PCR detection assay for *Brucella suis*. *Vet Rec Open* 2:e000084.
- Häussler, S., C. Sacré, K. Friedauer, S. Dänicke, and H. Sauerwein. 2015. Short communication: Localization and expression of monocyte chemoattractant protein-1 in different subcutaneous and visceral adipose tissues of early-lactating dairy cows. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2014-9256]
- Hagen, C., K.C. Dent, T. Zeev-Ben-Mordehai, M. Grange, J.B. Bosse, C. Whittle, B.G. Klupp, C.A. Siebert, D. Vasishtan, F.J.B. Bäuerlein, J. Cheleski, S. Werner, P. Guttmann, S. Rehbein, K. Henzler, J. Demmerle, B. Adler, U. Koszinowski, L. Schermelleh, G. Schneider, L.W. Enquist, J.M. Plitzko, T.C. Mettenleiter, and K. Grünewald. 2015. Structural Basis of Vesicle Formation at the Inner Nuclear Membrane. *Cell* 163:1692-1701.
- Hall, R.M., and S. Schwarz. 2015. Resistance gene naming and numbering: is it a new gene or not? *J Antimicrob Chemother* [Epub ahead of print; doi:10.1093/jac/dkv351]

- Hammerl, J.A., K. Mertens, L.D. Sprague, V.H. Hackert, J. Buijs, C.J. Hoebe, K. Henning, H. Neubauer, and S. Al Dahouk. 2015. First Draft Genome Sequence of a Human *Coxiella burnetii* Isolate, Originating from the Largest Q Fever Outbreak Ever Reported, the Netherlands, 2007 to 2010. *Genome Announcements* 3:e00445-15.
- Hammerl, J.A., R.G. Ulrich, C. Imholt, H.C. Scholz, J. Jacob, N. Kratzmann, K. Nöckler, and S. Al Dahouk. 2015. Molecular Survey on Brucellosis in Rodents and Shrews - Natural Reservoirs of Novel *Brucella* Species in Germany? *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.12425]
- Hampson, K., L. Coudeville, T. Lembo, M. Sambo, A. Kieffer, M. Attlan, J. Barrat, J.D. Blanton, D.J. Briggs, S. Cleaveland, P. Costa, C.M. Freuling, E. Hiby, L. Knopf, F. Leanes, F.-X. Meslin, A. Metlin, M.E. Miranda, T. Müller, L.H. Nel, S. Recuenco, C.E. Rupprecht, C. Schumacher, L. Taylor, M.A. Natal Vigilato, J. Zinsstag, J. Dushoff, on behalf of the Global Alliance for Rabies Control Partners for Rabies Prevention. 2015. Estimating the Global Burden of Endemic Canine Rabies. *PLoS Negl Trop Dis* 9:e0003709.
- Hanke, D., M. Jenckel, A. Petrov, M. Ritzmann, J. Stadler, V. Akimkin, S. Blome, A. Pohlmann, H. Schirrmeyer, M. Beer, and D. Höper. 2015. Comparison of Porcine Epidemic Diarrhea Viruses from Germany and the United States, 2014. *Emerg Infect Dis* 21:493-496.
- Hanon, J.-B., V. Vandenberghe, M. Deruelle, I. De Leeuw, K. De Clercq, S. Van Borm, F. Koenen, L. Liu, B. Hoffmann, C.A. Batten, S. Zientara, E. Breard, and Y. Van der Stede. 2015. Inter-laboratory evaluation of the performance parameters of a Lateral Flow Test device for the detection of Bluetongue virus-specific antibodies. *J Virol Methods* [Epub ahead of print; doi:10.1016/j.viromet.2015.12.001]
- Harder, T.C., S. Buda, H. Hengel, M. Beer, and T.C. Mettenleiter. 2015. Poultry food products - a source of avian influenza virus transmission to humans? *Clin Microbiol Infect* [Epub ahead of print; doi:10.1016/j.cmi.2015.11.015]
- Harder, T., S. Maurer-Stroh, A. Pohlmann, E. Starick, D. Höreth-Böntgen, K. Albrecht, G. Pannwitz, J. Teifke, V. Gunalan, R.T.C. Lee, C. Sauter-Louis, T. Homeier, C. Staubach, C. Wolf, G. Strebelow, D. Höper, C. Grund, F.J. Conraths, T.C. Mettenleiter, and M. Beer. 2015. Influenza (H5N8) Virus Similar to Strain in Korea Causing Highly Pathogenic Avian Influenza in Germany. *Emerg Infect Dis* 21:860-863.
- He, T., J. Shen, S. Schwarz, C. Wu, and Y. Wang. 2015. Characterization of a genomic island in *Stenotrophomonas maltophilia* that carries a novel *floR* gene variant. *J Antimicrob Chemother* 70:1031-1036.
- Heider, A., L. Mochalova, T. Harder, A. Tuzikov, N. Bovin, T. Wolff, M. Matrosovich, and B. Schweiger. 2015. Alterations in hemagglutinin receptor-binding specificity accompany the emergence of highly pathogenic avian influenza viruses. *J Virol* 89:5395-5405.
- Heinzmann, J., F. Mattern, P. Aldag, S.M. Bernal-Ulloa, T. Schneider, T. Haaf, and H. Niemann. 2015. Extended *in vitro* maturation affects gene expression and DNA methylation in bovine oocytes. *Mol Hum Reprod* 21:770-782.
- Heller, M., R. Schwarz, G. Noe, J. Jores, A. Fischer, E. Schubert, and K. Sachse. 2015. First human case of severe septicaemia associated with *Mycoplasma capricolum* subsp. *capricolum* infection. *JMM Case Rep* 2(5):1-3.
- Henning, A.-K., D. Albrecht, K. Riedel, T.C. Mettenleiter, and A. Karger. 2015. An alternative method for serum protein depletion/enrichment by precipitation at mildly acidic pH values and low ionic strength. *Proteomics* 15:1935-1940.
- Herder, V., N. van de Velde, J. Højer Kristensen, C. van Elk, M. Peters, J. Kilwinski, G. Schares, U. Siebert, and P. Wohlsein. 2015. Fatal Disseminated *Toxoplasma gondii* Infection in a Captive Harbour Porpoise (*Phocoena phocoena*). *J Comp Pathol* 153:357-362.

Hermosilla, C., I. Stamm, C. Menge, and A. Taubert. 2015. Suitable in vitro culture of *Eimeria bovis* meront II stages in bovine colonic epithelial cells and parasite-induced upregulation of CXCL10 and GM-CSF gene transcription. *Parasitol Res* **114**:3125-3136.

Hilbert, A., T. Andres, R. Werner, R. Wehr, A. Fröhlich, F. Conraths, and K. Henning. 2015. Nachweis von *Coxiella burnetii* beim Rind in Tank- und Einzelmilchproben im Rahmen von Abklärungsuntersuchungen. *Berl Münch Tierärztl Wschr* **128**:271-277.

Hinkel, R., P. Lange, B. Petersen, E. Gottlieb, J.K. Ng, S. Finger, J. Horstkotte, S. Lee, M. Thormann, M. Knorr, C. El-Aouni, P. Boekstegers, B. Reichart, P. Wenzel, H. Niemann, and C. Kupatt. 2015. Heme Oxygenase-1 Gene Therapy Provides Cardioprotection Via Control of Post-Ischemic Inflammation - An Experimental Study in a Pre-Clinical Pig Model. *J Am Coll Cardiol* **66**:154-165.

Hobi, S., S. Bettenay, M. Majzoub, R. Mueller, and I. Moser. 2015. *Mycobacterium avium* subspecies *hominissuis* infection in a dog from Germany with multifocal alopecia, exfoliative dermatitis, hypercalcaemia and subsequent sebaceous atrophy. *Vet Rec Case Rep* **3**:e000168.

Hoenen, T., A. Groseth, K. Rosenke, R.J. Fischer, A. Hoenen, S.D. Judson, C. Martellaro, D. Falzarano, A. Marzi, R.B. Squires, K.R. Wollenberg, E. de Wit, J. Prescott, D. Safronetz, N. van Doremalen, T. Bushmaker, F. Feldmann, K. McNally, F.K. Bolay, B. Fields, T. Sealy, M. Rayfield, S.T. Nichol, K.C. Zoon, M. Massaquoi, V.J. Munster, and H. Feldmann. 2015. Nanopore Sequencing as a Rapidly Deployable Ebola Outbreak Tool. *Emerg Infect Dis* [Epub ahead of print; doi: 10.3201/eid2202.151796]

Höper, D., C. Freuling, T. Müller, D. Hanke, V. von Messling, K. Duchow, M. Beer, and T.C. Mettenleiter. 2015. High definition viral vaccine strain identity and stability testing using full-genome population data - The next generation of vaccine quality control. *Vaccine* **33**:5829-5837.

Hoffmann, B., D. Tappe, D. Höper, C. Herden, A. Boldt, C. Mawrin, O. Niederstraßer, T. Müller, M. Jenckel, E. van der Grinten, C. Lutter, B. Abendroth, J.P. Teifke, D. Cadar, J. Schmidt-Chanasit, R.G. Ulrich, and M. Beer. 2015. A Variegated Squirrel Bornavirus Associated with Fatal Human Encephalitis. *New Engl J Med* **373**:154-162.

Hoffmann, D., A. Franke, M. Jenckel, A. Tamošiūnaitė, J. Schluckebier, H. Granzow, B. Hoffmann, S. Fischer, R.G. Ulrich, D. Höper, K. Goller, N. Osterrieder, and M. Beer. 2015. Out of the reservoir: Phenotypic and genotypic characterisation of a novel cowpox virus isolated from a common vole. *J Virol* **89**:10724-10734.

Hoffmann, D., S. Röhrs, J. Rahn, J. Stech, and M. Beer. 2015. Pathogenicity evaluation of neuraminidase-negative H5 and H7 viruses in day-old chicks and adult chicken. *Vaccine* **33**:6997-7001.

Hofmann, M., A. Wiethölter, I. Blaha, H. Jöst, P. Heinemann, M. Lehmann, T. Miller, D. Cadar, T. Yanase, N. Kley, M. Eiden, M. Groschup, and J. Schmidt-Chanasit. 2015. Batai virus surveillance in bovines, Germany. *Clin Vaccine Immunol* **22**:672-673.

Horton, D.L., L.M. McElhinney, C.M. Freuling, D.A. Marston, A.C. Banyard, H. Goharriz, E. Wise, A.C. Breed, G. Saturday, J. Kolodziejek, E. Zilahi, M.F. Al-Kobaisi, N. Nowotny, T. Mueller, and A.R. Fooks. 2015. Complex Epidemiology of a Zoonotic Disease in a Culturally Diverse Region: Phylogeography of Rabies Virus in the Middle East. *PLoS Negl Trop Dis* **9**:e0003569.

Huang, Y., A. Jung, W.-J. Schäfer, D. Mock, G.B. Michael, M. Runge, S. Schwarz, and D. Steinhagen. 2015. Analysis of *Yersinia ruckeri* strains isolated from trout farms in northwest Germany. *Dis Aquat Org* **116**:243-249.

Hulin, V., S. Oger, F. Vorimore, R. Aaziz, B. de Barbeyrac, J. Berruchon, K. Sachse, and K. Laroucau. 2015. Host preference and zoonotic potential of *Chlamydia psittaci* and *Chlamydia gallinacea* in poultry. *FEMS Pathog Dis* **73**(1):1-11.

- Isaksson, J., L. Christerson, M. Blomqvist, M. Wille, L.A. Alladio, K. Sachse, B. Olsen, D. González-Acuña, and B. Herrmann. 2015. Chlamydiaceae-like bacterium, but no *Chlamydia psittaci*, in sea birds from Antarctica. *Polar Biol* **38**:1931-1936.
- Jackson, E.L., A. Waret-Szkuta, D. Raboisson, J. Niemi, M. Aragrande, J. Gethmann, S.B. Martins, D. Höreth-Böntgen, P. Sans, K.D. Stärk, B. Häslar, and J. Rushton. 2015. Europe Needs Consistent Teaching of the Economics of Animal Health. *EuroChoices* [Epub ahead of print; doi:10.111/1746-692X.12098]
- Jenckel, M., E. Bréard, C. Schulz, C. Sailleau, C. Viarouge, B. Hoffmann, D. Höper, M. Beer, and S. Zientara. 2015. Complete Coding Genome Sequence of Putative Novel Bluetongue Virus Serotype 27. *Genome Announcements* **3**:e00016-15.
- Jung-Schroers, V., M. Adamek, F. Teitge, J. Hellmann, S.M. Bergmann, H. Schütze, D.W. Kleingeld, K. Way, D. Stone, M. Runge, B. Keller, S. Hesami, T. Waltzek, and D. Steinhagen. 2015. Another potential carp killer?: Carp Edema Virus disease in Germany. *BMC Vet Res* **11**:114.
- Kadlec, K., S. Schwarz, R.V. Goering, and J.S. Weese. 2015. Direct repeat unit (*dru*) typing of methicillin-resistant *Staphylococcus pseudintermedius* from dogs and cats. *J Clin Microbiol* **53**:3760-3765.
- Kalmar, I., A. Berndt, L. Yin, K. Chiers, K. Sachse, and D. Vanrompay. 2015. Host-pathogen interactions in specific pathogen-free chickens following aerogenous infection with *Chlamydia psittaci* and *Chlamydia abortus*. *Vet Immunol Immunopathol* **164**:30-39.
- Kameke, D., D. Werner, B. Hoffmann, W. Lutz, and H. Kampen. 2015. Schmallenberg virus in Germany 2011-2014: searching for the vectors. *Parasitol Res* [Epub ahead of print; doi:10.1007/s00436-015-4768-5]
- Kampen, H., J.M. Medlock, A.G.C. Vaux, C.J.M. Koenraadt, A.J.H. van Vliet, F. Bartumeus, A. Oltra, C.A. Sousa, S. Chouin, and D. Werner. 2015. Approaches to passive mosquito surveillance in the EU. *Parasite Vector* **8**:9.
- Kampen, H., and D. Werner. 2015. Die wiederkehrende Notwendigkeit von Stechmücken-Surveillance und -Forschung. *Bundesgesundheitsbl* **58**:1101-1109.
- Karamendin, K., A. Kydyrmanov, A. Seidalina, M. Jenckel, E. Starick, C. Grund, S. Asanova, E. Khan, K. Daulbayeva, Y. Kasymbekov, K. Zhumatov, M. Sayatov, M. Beer, and S. Fereidouni. 2015. Complete Genome Sequence of Avian Paramyxovirus Strain APMV-6/red-crested pochard/Balkhash/5842/2013 from Kazakhstan. *Genome Announcements* **3**:e00158-15.
- Kenéz, Á., A. Kulcsár, F. Kluge, I. Benbelkacem, K. Hansen, L. Locher, U. Meyer, J. Rehage, S. Dänicke, and K. Huber. 2015. Changes of Adipose Tissue Morphology and Composition during Late Pregnancy and Early Lactation in Dairy Cows. *PLoS one* **10**:e0127208.
- Kenéz, Á., R. Tienken, L. Locher, U. Meyer, A. Rizk, J. Rehage, S. Dänicke, and K. Huber. 2015. Changes in lipid metabolism and  $\beta$ -adrenergic response of adipose tissues of periparturient dairy cows affected by an energy-dense diet and nicotinic acid supplementation. *J Anim Sci* **93**:4012-4022.
- Kerner, K., P.S. Bridger, G. Köpf, J. Fröhlich, S. Barth, H. Willems, R. Bauerfeind, G. Baljer, and C. Menge. 2015. Evaluation of biological safety in vitro and immunogenicity in vivo of recombinant *Escherichia coli* Shiga toxoids as candidate vaccines in cattle. *Vet Res* **46**:38.
- Kinoshita, A., C. Keese, A. Beineke, U. Meyer, A. Starke, H. Sauerwein, S. Dänicke, and J. Rehage. 2015. Effects of *Fusarium* mycotoxins in rations with different concentrate proportions on serum haptoglobin and hepatocellular integrity in lactating dairy cows. *J Anim Physiol Anim Nutr* **99**:887-892.

- Kirkland, P.D., M.J. Frost, K.R. King, D.S. Finlaison, C.L. Hornitzky, X. Gu, M. Richter, I. Reimann, M. Dauber, H. Schirrmeier, M. Beer, and J.F. Ridpath. 2015. Genetic and antigenic characterisation of Bungowannah virus, a novel pestivirus. *Vet Microbiol* **178**:252-259.
- Kjaer, J.B., H. Würbel, and L. Schrader. 2015. Perseveration in a guessing task by laying hens selected for high or low levels of feather pecking does not support classification of feather pecking as a stereotyp. *Appl Anim Behav Sci* **168**:56-60.
- Klingbeil, K., E. Lange, U. Blohm, J.P. Teifke, T.C. Mettenleiter, and W. Fuchs. 2015. Protection of pigs against pandemic swine origin H1N1 influenza A virus infection by hemagglutinin- or neuraminidase-expressing attenuated pseudorabies virus recombinants. *Virus Res* **199**:20-30.
- Klintworth, A., T. Nolden, S. Westhaus, K. Rohrmann, S. David, M.P. Manns, S. Finke, S. Ciesek, and T. von Hahn. 2015. Cationic amphiphilic drugs enhance entry of lentiviral particles pseudotyped with rabies virus glycoprotein into non-neuronal cells. *Antiviral Res* **124**:122-131.
- Kluess, J.W., S. Kahlert, A. Kröber, A.-K. Diesing, H.-J. Rothkötter, K. Wimmers, and S. Dänicke. 2015. Deoxynivalenol, but not *E. coli* lipopolysaccharide, changes the response pattern of intestinal porcine epithelial cells (IPEC-J2) according to its route of application. *Toxicol Lett* **239**:161-171.
- Kluess, J., S. Kahlert, P. Panther, A.-K. Diesing, C. Nossol, H.-J. Rothkötter, S. Kersten, and S. Dänicke. 2015. Systemic *E. coli* lipopolysaccharide but not deoxynivalenol results in transient leukopenia and diminished metabolic activity of peripheral blood mononuclear cells ex vivo. *Mycotoxin Res* **31**:41-50.
- Knittler, M.R., and K. Sachse. 2015. *Chlamydia psittaci*: update on an underestimated zoonotic agent. *FEMS Pathog Dis* **73**(1):1-15.
- Köhler, H., A. Soschinka, M. Meyer, A. Kather, P. Reinhold, and E. Liebler-Tenorio. 2015. Characterization of a caprine model for the subclinical initial phase of *Mycobacterium avium* subsp. *paratuberculosis* infection. *BMC Vet Res* **11**:74.
- Kraatz, F., K. Wernike, S. Hechinger, P. König, H. Granzow, I. Reimann, and M. Beer. 2015. Deletion Mutants of Schmallenberg Virus Are Avirulent and Protect from Virus Challenge. *J Virol* **89**:1825-1838.
- Krause, E.T., and M. Naguib. 2015. Zebra finch males compensate in plumage ornaments at sexual maturation for a bad start in life. *Front Zool* **12**(Suppl. 1):S1-S11.
- Krüger, C., H. Köhler, and E.M. Liebler-Tenorio. 2015. Cellular composition of granulomatous lesions in gut-associated lymphoid tissues of goats during the first year after experimental infection with *Mycobacterium avium* subsp. *paratuberculosis*. *Vet Immunol Immunopathol* **163**:33-45.
- Krüger, C., H. Köhler, and E.M. Liebler-Tenorio. 2015. Sequential Development of Lesions 3, 6, 9, and 12 Months After Experimental Infection of Goat Kids With *Mycobacterium avium* subsp. *paratuberculosis*. *Vet Pathol* **52**:276-290.
- Kumar, D., T.R. Talluri, T. Anand, and W.A. Kues. 2015. Induced pluripotent stem cells: Mechanisms, achievements and perspectives in farm animals. *World J Stem Cells* **7**:315-328.
- Kumar, D., T.R. Talluri, T. Anand, and W.A. Kues. 2015. Transposon-based Reprogramming to Induced Pluripotency. *Histol Histopathol* **30**:1499-1512.
- Langenmayer, M.C., N.S. Gollnick, M. Majzoub-Altweck, J.C. Scharr, G. Schares, and W. Hermanns. 2015. Naturally Acquired Bovine Besnoitiosis: Histological and Immunohistological Findings in Acute, Subacute, and Chronic Disease. *Vet Pathol* **52**:476-488.

Langenmayer, M.C., N.S. Gollnick, J.C. Scharr, G. Schares, D.C. Herrmann, M. Majzoub-Altweck, and W. Hermanns. 2015. *Besnoitia besnoiti* infection in cattle and mice: ultrastructural pathology in acute and chronic besnoitiosis. *Parasitol Res* **114**:955-963.

Langenmayer, M.C., J.C. Scharr, C. Sauter-Louis, G. Schares, and N.S. Gollnick. 2015. Natural *Besnoitia besnoiti* infections in cattle: hematological alterations and changes in serum chemistry and enzyme activity. *BMC Vet Res* **11**:32.

Laroucau, K., R. Aaziz, L. Meurice, V. Servas, I. Chossat, H. Royer, B. de Barbeyrac, V. Vaillant, J.L. Moyon, F. Meziani, K. Sachse, and P. Rolland. 2015. Outbreak of psittacosis in a group of women exposed to *Chlamydia psittaci*-infected chickens. *Eurosurveillance* **20**(24):1-6.

Lasch, P., T. Wahab, S. Weil, B. Pályi, H. Tomaso, S. Zange, B. Kiland Granerud, M. Drevinek, B. Kokotovic, M. Wittwer, V. Pflüger, A. Di Caro, M. Stämmeler, R. Grunow, and D. Jacob. 2015. Identification of Highly Pathogenic Microorganisms using MALDI-TOF Mass Spectrometry - Results of an Inter-Laboratory Ring Trial. *J Clin Microbiol* **53**:2632-2640.

Laubenthal, L., M. Hoelker, J. Frahm, S. Dänicke, K. Gerlach, K.-H. Südekum, H. Sauerwein, and S. Häussler. 2015. Mitochondrial DNA copy number and biogenesis in different tissues of early- and late-lactating dairy cows. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2015-9847]

Legnani, S., N. Pantchev, A. Forlani, E. Zini, G. Schares, J. Balzer, P. Roccabianca, F. Ferri, and G. Zanna. 2015. Emergence of cutaneous neosporosis in a dog receiving immunosuppressive therapy: molecular identification and management. *Vet Dermatol* [Epub ahead of print; doi:10.1111/vde.12273]

Leiber-Sauheitl, K., R. Fuß, St. Burkart, F. Buegger, S. Dänicke, U. Meyer, K.J. Petzke, and A. Freibauer. 2015. Sheep excreta cause no positive priming of peat-derived CO<sub>2</sub> and N<sub>2</sub>O emissions. *Soil Biol Biochem* **88**:282-293.

Lévai, R., T. Barna, K. Fábrián, S. Blome, K. Belák, Á. Balint, F. Koenen, and G. Kulczár. 2015. Pre-registration efficacy study of a novel marker vaccine against classical swine fever on Maternally Derived Antibody negative (MDA-) target animals. *Biologicals* **43**:92-99.

Levit, G.S., P. Reinhold, and U. Hoßfeld. 2015. Goethe's "Comparirte Anatomy" as a foundation for the growth of theoretical and applied biomedical sciences in Jena. *Theor Biosci* **134**:9-15.

Li, D., C. Wu, Y. Wang, R. Fan, S. Schwarz, and S. Zhang. 2015. Identification of the multiresistance gene *cfr* in methicillin-resistant *Staphylococcus aureus* from pigs: plasmid location and integration into a *SCCmec* cassette. *Antimicrob Agents Chemother* **59**:3641-3644.

Li, L., R. Ulrich, W. Baumgärtner, and I. Gerhauser. 2015. Interferon-stimulated genes - essential antiviral effectors implicated in resistance to Theiler's virus-induced demyelinating disease. *J Neuroinflamm* **12**:242.

Lieboldt, M.-A., I. Halle, J. Frahm, L. Schrader, U. Baulain, M. Henning, R. Preisinger, S. Dänicke, and S. Weigend. 2015. Phylogenetic versus selection effects on growth development, egg laying and egg quality in purebred laying hens. *Europ Poult Sci* **79**, doi:10.1399/eps.2015.89.

Lieboldt, M.-A., I. Halle, J. Frahm, L. Schrader, S. Weigend, R. Preisinger, G. Breves, and S. Dänicke. 2015. Effects of Graded Dietary L-arginine Supply on Organ Growth in Four Genetically Diverse Layer Lines during Rearing Period. *J Poultry Sci* [Epub ahead of print; doi: 10.2141/jpsa.0150131]

Lieboldt, M.-A., I. Halle, J. Frahm, L. Schrader, S. Weigend, R. Preisinger, and S. Dänicke. 2015. Effects of Long-term Graded L-arginine Supply on Growth Development, Egg Laying and Egg Quality in Four Genetically Diverse Purebred Layer Lines. *J Poultry Sci* [Epub ahead of print; doi: 10.2141/jpsa.0150067]



- Liermann, W., A. Berk, V. Bösch, and S. Dänicke. 2015. Effects of particle size and hydro-thermal treatment of feed on performance and stomach health in fattening pigs. *Arch Anim Nutr* **69**:455-472.
- Liljander, A., M. Yu, E. O'Brien, M. Heller, J.F. Nepper, D.B. Weibel, I. Gluecks, M. Younan, J. Frey, L. Falquet, and J. Jores. 2015. Field-applicable recombinase polymerase amplification assay for rapid detection of *Mycoplasma capricolum* subsp. *capripneumoniae*. *J Clin Microbiol* **53**:2810-2815.
- Locher, L., S. Häussler, L. Laubenthal, S.P. Singh, J. Winkler, A. Kinoshita, À. Kenéz, J. Rehage, K. Huber, H. Sauerwein, and S. Dänicke. 2015. Effect of increasing body condition on key regulators of fat metabolism in subcutaneous adipose tissue depot and circulation of nonlactating dairy cows. *J Dairy Sci* **98**:1057-1068.
- Lohr, M., A. Prohl, C. Ostermann, E. Liebler-Tenorio, W. Schroedl, S. Aeby, G. Greub, and P. Reinhold. 2015. A bovine model of a respiratory *Parachlamydia acanthamoebae* infection. *FEMS Pathog Dis* **73**(1):1-14.
- Lorenz, M., B. Vollmer, J.D. Unsay, B.G. Klupp, A.J. García Sáez, T.C. Mettenleiter, and W. Antonin. A Single Herpesvirus Protein can mediate Vesicle Formation in the Nuclear Envelope. *J Biol Chem* **290**:6962-6974.
- Loveday, E.-K., S. Diederich, J. Pasick, and F. Jean. 2015. Human microRNA-24 modulates highly pathogenic avian-origin H5N1 influenza A virus infection in A549 cells by targeting secretory pathway furin. *J Gen Virol* **96**:30-39.
- Ludes-Wehrmeister, E., C. Dupke, T.C. Harder, W. Baumgärtner, L. Haas, J. Teilmann, R. Dietz, L.F. Jensen, and U. Siebert. 2015. Phocine distemper virus (PDV) seroprevalence as predictor for future outbreaks in harbour seals. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.11.017]
- Ludlow, M., J. Kortekaas, C. Herden, B. Hoffmann, D. Tappe, C. Trebst, D.E. Griffin, H.E. Brindle, T. Solomon, A.S. Brown, D. van Riel, K.C. Wolters, D. Pajkrt, P. Wohlsein, B.E.E. Martina, W. Baumgärtner, G.M. Verjans, and A.D.M.E. Osterhaus. 2015. Neurotropic virus infections as the cause of immediate and delayed neuropathology. *Acta Neuropathol* [Epub ahead of print; doi:10.1007/s00401-015-1511-3]
- Lühken, R., S. Steinke, M. Leggewie, E. Tannich, A. Krüger, S. Becker, and E. Kiel. 2015. Physico-Chemical Characteristics of *Culex pipiens sensu lato* and *Culex torrentium* (Diptera: Culicidae) Breeding Sites in Germany. *J Med Entomol* **52**:932-936.
- Lyimo, C.M., A. Weigend, P.L. Msoffe, P.M. Hocking, H. Simianer, and S. Weigend. 2015. Maternal genealogical patterns of chicken breeds sampled in Europe. *Anim Genet* **46**:447-451.
- Ma, Y., X. Ding, S. Qanbari, S. Weigend, Q. Zhang, and H. Simianer. 2015. Properties of different selection signature statistics and a new strategy for combining them. *Heredity* **115**:426-436.
- Maaland, M.G., S.S. Mo, S. Schwarz, and L. Guardabassi. 2015. *In vitro* assessment of chloramphenicol and florfenicol as second-line antimicrobial agents in dogs. *J Vet Pharmacol Ther* **38**:443-450.
- Mahjoub, N., S. Dhorne-Pollet, W. Fuchs, M.-L. Endale Ahanda, E. Lange, B. Klupp, A. Arya, J.E. Loveland, F. Lefevre, T.C. Mettenleiter, and E. Giuffra. 2015. A 2.5-Kilobase Deletion Containing a Cluster of Nine MicroRNAs in the Latency-Associated-Transcript Locus of the Pseudorabies Virus Affects the Host Response of Porcine Trigeminal Ganglia during Established Latency. *J Virol* **89**:428-442.
- Mayboroda, O., A. Gonzalez Benito, J. Sabaté del Rio, M. Svobodova, S. Julich, H. Tomaso, C.K. O'Sullivan, and I. Katakis. 2015. Isothermal solid-phase amplification system for detection of *Yersinia pestis*. *Anal Bioanal Chem* [Epub ahead of print; doi:10.1007/s00216-015-177-1]

Medlock, J.M., K.M. Hansford, V. Versteirt, B. Cull, H. Kampen, D. Fontenille, G. Hendrickx, H. Zeller, W. Van Bortel, and F. Schaffner. 2015. An entomological review of invasive mosquitoes in Europe. *Bull Entomol Res* 105:637-663.

Menge, C., D. Loos, P.S. Bridger, S. Barth, D. Werling, and G. Baljer. 2015. Bovine macrophages sense *Escherichia coli* Shiga toxin 1. *Inn Immun* 21:655-664.

Merkt, W., D. Urlaub, S. Meinke, R. Kammerer, and C. Watzl. 2015. Inhibition of NKp30 and 2B4-mediated NK cell activation by evolutionary different human and bovine CEACAM1 receptors. *Eur J Immunol* 45:2134-2142.

Mertens, K., O. Schneider, G. Schmooch, F. Melzer, and M.C. Elschner. 2015. Fate of *Bacillus anthracis* during production of laboratory-scale cream cheese and homemade-style yoghurt. *Food Microbiol* 46:336-341.

Mertens, M., Z. Vatansever, S. Mrenoshki, K. Krstevski, J. Stefanovska, I. Djadjovski, I. Cvetkovikj, R. Farkas, I. Schuster, F. Donnet, L. Comtet, N. Tordo, R. Ben Mechlia, A. Balkema-Buschmann, D. Mitrov, and M.H. Groschup. 2015. Circulation of Crimean-Congo Hemorrhagic Fever Virus in the Former Yugoslav Republic of Macedonia Revealed by Screening of Cattle Sera Using a Novel Enzyme-linked Immunosorbent Assay. *PLoS Negl Trop Dis* 9:e0003519.

Mettenleiter, T.C. 2015. Breaching the barrier - the nuclear envelope in virus infection. *J Mol Biol* [Epub ahead of print; doi:10.1016/j.jmb.2015.10.001]

Möbius, P., M. Hölzer, M. Felder, G. Nordsiek, M. Groth, H. Köhler, K. Reichwald, M. Platzer, and M. Marz. 2015. Comprehensive insights in the *Mycobacterium avium* subsp. *paratuberculosis* genome using new WGS data of sheep strain JIII-386 from Germany. *Genome Biol Evol* 7:2585-2601.

Möhl, B.S., C. Schröter, B.G. Klupp, W. Fuchs, T.C. Mettenleiter, T.S. Jardetzky, and R. Longnecker. 2015. Comparative mutagenesis of Pseudorabies and Epstein-Barr virus gH identifies a structural determinant within domain III of gH required for surface expression and entry function. *J Virol* [Epub ahead of print; doi:10.1128/JVI.03032-15]

Monaghan, S.J., K.D. Thompson, A. Adams, and S.M. Bergmann. 2015. Sensitivity of seven PCRs for early detection of koi herpesvirus in experimentally infected carp, *Cyprinus carpio* L., by lethal and non-lethal sampling methods. *J Fish Dis* 38:303-319.

Monaghan, S.J., K.D. Thompson, A. Adams, J. Kempter, and S.M. Bergmann. 2015. Examination of the early infection stages of koi herpesvirus (KHV) in experimentally infected carp, *Cyprinus carpio* L. using *in situ* hybridization. *J Fish Dis* 38:477-489.

Monecke, S., G.W. Coombs, J. Pearson, H. Hotzel, P. Slickers, and R. Ehricht. 2015. A CC12 MRSA strain, West Australian MRSA-59, harbors a novel pseudo-SCC*mec* element. *Antimicrob Agents Chemother* 59:7142-7144.

Monecke, S., A. Friedrichs, C. Pöhlmann, K. Hochauf, F. Gunzer, D. Wiesner, W. Sickert, I. Steinmetz, H. Scholz, R. Ehricht, G. Schmooch, and E. Jacobs. 2015. An imported case of melioidosis presenting as pyelonephritis/urosepsis. *JMM Case Reports* 2(5):1-5.

Morger, J., L. Råberg, S.M. Hille, S. Helsen, J. Štefka, M.M. Al-Sabi, C.M.O. Kapel, T. Mappes, S. Essbauer, R.G. Ulrich, P. Bartolommei, A. Mortellini, L. Balčiauskas, N.W. van den Brink, A. Rémy, A. Bajer, M. Cheprakov, M. Korva, A.L. García-Pérez, R. Biek, S. Withenshaw, and B. Tschirren. 2015. Distinct haplotype structure at the innate immune receptor Toll-like receptor 2 across bank vole populations and lineages in Europe. *Biol J Linn Soc* 116:124-133.

Moser, I., K. Ternes, M. Peters, M. Büttner, and M. Spanò. 2015. Anmerkungen zum Vorkommen der Tuberkulose bei Tieren, ausgenommen die bovine Tuberkulose bei Rindern, in Deutschland: Befunde aus den Jahren 2002 bis 2014. *Tierärztl Umschau* 70(5):167-176.

- Mouchantat, S., K. Wernike, W. Lutz, B. Hoffmann, R.G. Ulrich, K. Börner, U. Wittstatt, and M. Beer.** 2015. A broad spectrum screening of Schmallenberg virus antibodies in wildlife animals in Germany. *Vet Res* **46**:99.
- Müller, T., C.M. Freuling, P. Wysocki, M. Roumiantzeff, J. Freney, T.C. Mettenleiter, and A. Vos.** 2015. Terrestrial rabies control in the European Union: Historical achievements and challenges ahead. *Vet J* **203**:10-17.
- Müller, T.F., R. Schröder, P. Wysocki, T.C. Mettenleiter, and C.M. Freuling.** 2015. Spatio-temporal Use of Oral Rabies Vaccines in Fox Rabies Elimination Programmes in Europe. *PLoS Negl Trop Dis* **9**:e0003953.
- Muñoz, L.E., C. Berens, K. Lauber, U.S. Gaipf, and M. Herrmann.** 2015. Apoptotic cell clearance and its role in the origin and resolution of chronic inflammation. *Frontiers Immunol* **6**:139.
- Muñoz, L.E., M. Herrmann, and C. Berens.** 2014. Dying autologous cells as instructors of the immune system. *Clin Exp Immunol* **179**:1-10.
- Muzyka, D., M. Pantin-Jackwood, E. Starick, and S. Fereidouni.** 2015. Evidence for genetic variation of Eurasian avian influenza viruses of subtype H15: the first report of an H15N7 virus. *Arch Virol* [Epub ahead of print; doi:10.1007/s00705-015-2629-2]
- Nadkarni, A., J.A. Burns, A. Gandolfi, M.A. Chowdhury, L. Cartularo, C. Berens, N.E. Geacintov, and D.A. Scicchitano.** 2015. Nucleotide Excision Repair and Transcription-coupled DNA Repair Abrogate the Impact of DNA Damage on Transcription. *J Biol Chem* [Epub ahead of print; doi:10.1074/jbc.M115.685271]
- Naguib, M.M., A.-S.A. Arafa, M.F. El-Kady, A.A. Selim, V. Gunalan, S. Maurer-Stroh, K.V. Goller, M.K. Hassan, M. Beer, E.M. Abdelwhab, and T.C. Harder.** 2015. Evolutionary trajectories and diagnostic challenges of potentially zoonotic avian influenza viruses H5N1 and H9N2 co-circulating in Egypt. *Infect Genet Evol* **34**:278-291.
- Naguib, M.M., J. Kinne, H. Chen, K.-H. Chan, S. Joseph, P.-C. Wong, P.C.Y. Woo, R. Wernery, M. Beer, U. Wernery, and T.C. Harder.** 2015. Outbreaks of highly pathogenic avian influenza H5N1 clade 2.3.2.1c in hunting falcons and kept wild birds in Dubai implicate intercontinental virus spread. *J Gen Virol* **96**:3212-3222.
- Nainys, J., A. Timinskas, J. Schneider, R.G. Ulrich, and A. Gedvilaite.** 2015. Identification of Two Novel Members of the Tentative Genus *Wukipolyomavirus* in Wild Rodents. *PLoS one* **10**:e0140916.
- Nassar, M., I. Halle, A. Plagemann, and B. Tzschentke.** 2015. Detection of long-term influence of prenatal temperature stimulation on hypothalamic type-II iodothyronine deiodinase in juvenile female broiler chickens using a novel immunohistochemical amplification protocol. *Comp Biochem Physiol A* **179**:120-124.
- Nath, S., A. Kadasi, R. Grossmann, A.V. Sirotkin, A. Kolesarova, A.D. Talukdar, and M.D. Choudhury.** 2015. *Ricinus communis* L. stem bark extracts regulate ovarian cell functions and secretory activity and their response to Luteinising hormone. *Int J Impot Res* **27**:215-220.
- Neubauer, H.K.J., and L.D. Sprague.** 2015. Strains of *Yersinia wautersii* should continue to be classified as the "Korean Group" of the *Yersinia pseudotuberculosis* Complex and not as a separate species. *Int J System Evol Microbiol* **65**:732-733.
- Neumann, S., S.S. Hackl, M. Piepenschneider, A. Vina-Rodriguez, P. Dremsek, R.G. Ulrich, M.H. Groschup, and M. Eiden.** 2015. Serologic and Molecular Survey of Hepatitis E Virus in German Deer Populations. *J Wildlife Dis* [Epub ahead of print; doi:10.7589/2014-12-282]
- Oelschlegel, A.M., M. Geissen, M. Lenk, R. Riebe, M. Angermann, H. Schaeztl, and M.H. Groschup.** 2015. A Bovine Cell Line That Can Be Infected by Natural Sheep Scrapie Prions. *PLoS one* **10**:e0117154.

Otto, P., R. Kohlmann, W. Müller, S. Julich, G. Geis, S.G. Gatermann, M. Peters, P.J. Wolf, E. Karlsson, M. Forsman, K. Myrtenäs, and H. Tomaso. 2015. Hare-to-Human Transmission of *Francisella tularensis* subsp. *holarctica*, Germany. *Emerg Infect Dis* **21**:153-155.

Otto, P.H., J. Reetz, W. Eichhorn, W. Herbst, and M.C. Elschner. 2015. Isolation and propagation of the animal rotaviruses in MA-104-cells - 30 years of practical experience. *J Virol Methods* **223**:88-95.

Otto, P.H., S. Rosenhain, M.C. Elschner, H. Hotzel, P. Machnowska, E. Trojnar, K. Hoffmann, and R. Johne. 2015. Detection of rotavirus species A, B and C in domestic mammalian animals with diarrhoea and genotyping of bovine species A rotavirus strains. *Vet Microbiol* **179**:168-176.

Panicz, R., J. Sadowski, H. Schütze, and S.M. Bergmann. 2015. Temperature influence on key players of the somatotropic axis of tench, *Tinca tinca* (Actinopterygii: Cypriniformes: Cyprinidae). *Acta Ichthyol Piscat* **45**:335-342.

Pannhorst, K., A. Fröhlich, C. Staubach, D. Meyer, S. Blome, and P. Becher. 2015. Evaluation of an E<sup>ns</sup>-based enzyme-linked immunosorbent assay to distinguish *Classical swine fever virus*-infected pigs from pigs vaccinated with CP7\_E2alf. *J Vet Diagn Invest* **27**:449-460.

Pardini, L., A. Dellarupe, D. Bacigalupe, M.A. Quiroga, G. Moré, M. Rambeaud, W. Basso, J.M. Unzaga, G. Schares, and M.C. Venturini. 2015. Isolation and molecular characterization of *Toxoplasma gondii* in a colony of captive black-capped squirrel monkeys (*Saimiri boliviensis*). *Parasitol Int* **64**:587-590.

Paßvogel, L., B.G. Klupp, H. Granzow, W. Fuchs, and T.C. Mettenleiter. 2015. Functional Characterization of Nuclear Trafficking Signals in Pseudorabies Virus pUL31. *J Virol* **89**:2002-2012.

Paulick, M., I. Rempe, S. Kersten, D. Schatzmayr, H.E. Schwartz-Zimmermann, and S. Dänicke. 2015. Effects of Increasing Concentrations of Sodium Sulfite on Deoxynivalenol and Deoxynivalenol Sulfonate Concentrations of Maize Kernels and Maize Meal Preserved at Various Moisture Content. *Toxins* **7**:791-811.

Paulick, M., J. Winkler, S. Kersten, D. Schatzmayr, H.E. Schwartz-Zimmermann, and S. Dänicke. 2015. Studies on the Bioavailability of Deoxynivalenol (DON) and DON Sulfonate (DONS) 1, 2, and 3 in Pigs Fed with Sodium Sulfite-Treated DON-Contaminated Maize. *Toxins* **7**:4622-4644.

Peters, A., U. Meyer, and S. Dänicke. 2015. Effect of exogenous fibrolytic enzymes on performance and blood profile in early and mid-lactation Holstein cows. *Anim Nutr* **1**:229-238.

Petersen, B., and H. Niemann. 2015. Advances in genetic modification of farm animals using zinc-finger nucleases (ZFN). *Chromosome Res* [Epub ahead of print; doi:10.1007/s10577-014-9451-7]

Petersen, B., and H. Niemann. 2015. Molecular scissors and their application in genetically modified farm animals. *Transgenic Res* **24**:381-396.

Petzold, M., U. Meyer, S. Kersten, J. Spilke, G. Breves, and S. Dänicke. 2015. Impacts of CLA and dietary concentrate proportion on blood metabolite concentration and proliferation of peripheral blood mononuclear cells of periparturient dairy cows. *Animal* **9**:481-489.

Phi van, D.K., E. Mühlbauer, and L. Phi-van. 2015. Histone deacetylase HDAC1 downregulates transcription of the serotonin transporter (*5-HTT*) gene in tumor cells. *BBA Gene Regul Mech* **1849**:909-918.

Pietsch, C., S. Kersten, H. Valenta, S. Dänicke, C. Schulz, P. Burkhardt-Holm, and R. Junge. 2015. Effects of Dietary Exposure to Zearalenone (ZEN) on Carp (*Cyprinus carpio* L.). *Toxins* **7**: 3465-3480.

- Pietschmann, J., C. Guinat, M. Beer, V. Pronin, K. Tauscher, A. Petrov, G. Keil, and S. Blome. 2015. Course and transmission characteristics of oral low-dose infection of domestic pigs and European wild boar with a Caucasian African swine fever virus isolate. *Arch Virol* **160**:1657-1667.
- Pinior, B., F.J. Conraths, B. Petersen, and T. Selhorst. 2015. Decision support for risks managers in the case of deliberate food contamination: The dairy industry as an example. *Omega* **53**:41-48.
- Portugal, R., J. Coelho, D. Höper, N.S. Little, C. Smithson, C. Upton, C. Martins, A. Leitão, and G.M. Keil. 2015. Related strains of African swine fever virus with different virulence: genome comparison and analysis. *J Gen Virol* **96**:408-419.
- Probst, C., J.M. Gethmann, H. Kampen, D. Werner, and F.J. Conraths. 2015. A comparison of four light traps for collecting *Culicoides* biting midges. *Parasitol Res* **114**:4717-4724.
- Prohl, A., M. Lohr, C. Ostermann, E. Liebler-Tenorio, A. Berndt, W. Schroedl, M. Rothe, E. Schubert, K. Sachse, and P. Reinhold. 2015. Evaluation of antimicrobial treatment in a bovine model of acute *Chlamydia psittaci* infection: tetracycline versus tetracycline plus rifampicin. *FEMS Pathog Dis* **73**(1):1-12.
- Prohl, A., M. Lohr, C. Ostermann, E. Liebler-Tenorio, A. Berndt, W. Schroedl, M. Rothe, E. Schubert, K. Sachse, and P. Reinhold. 2015. Enrofloxacin and Macrolides Alone or in Combination with Rifampicin as Antimicrobial Treatment in a Bovine Model of Acute *Chlamydia psittaci* Infection. *PLoS one* **10**:e0119736.
- Prohl, A., W. Schroedl, H. Rhode, and P. Reinhold. 2015. Acute phase proteins as local biomarkers of respiratory infection in calves. *BMC Vet Res* **11**:167.
- Prohl, A., K. Wolf, C. Weber, K.E. Müller, C. Menge, K. Sachse, J. Rödel, P. Reinhold, and A. Berndt. 2015. Kinetics of Local and Systemic Leucocyte and Cytokine Reaction of Calves to Intrabronchial Infection with *Chlamydia psittaci*. *PLoS one* **10**:e0135161.
- Pucken, V.-B., F. Götz, R. Mansfeld, S. Moder, C. Sauter-Louis, R.K. Straubinger, and G. Knubben-Schweizer. 2015. Der Tuberkulin-Hauttest: Literatur, Richtlinie und Umsetzung in der Praxis. *Tierärztl Prax* **43**(G):197-206.
- Püllen, C., S. Becker, P. Reinhold, H.-J. Smith, and G. Reiner. 2015. Relationship between clinical signs and results of impulse oscillometry in pigs originating from the field. *Res Vet Sci* **98**:106-111.
- Rahman, Kh.S., E.U. Chowdhury, A. Poudel, A. Ruettger, K. Sachse, and B. Kaltenboeck. 2015. Defining species-specific immunodominant B cell epitopes for molecular serology of *Chlamydia* spp. *Clin Vaccine Immunol* **22**:539-552.
- Rahn, J., D. Hoffmann, T.C. Harder, and M. Beer. 2015. Vaccines against influenza A viruses in poultry and swine: Status and future developments. *Vaccine* **33**:2414-2424.
- Rath, D., C. Knorr, and U. Taylor. 2015. Communication requested: Boar Semen Transport Through the Uterus and Possible Consequences for Insemination. *Theriogenology* [Epub ahead of print; doi:10.1016/j.theriogenology.2015.09.016]
- Rath, D., D. Tiedemann, L. Gamrad, J.L. Johnson, S. Klein, W. Kues, R. Mancini, C. Rehbock, U. Taylor, and S. Barcikowski. 2015. Sex-Sorted Boar Sperm - An Update on Related Production Methods. *Reprod Dom Anim* **50**(Suppl.2):56-60.
- Rasche, F.M., S. Schmidt, C. Kretzschmar, M. Mertens, J. Thiel, M.H. Groschup, M. Schlegel, C. Mayer, T.H. Lindner, S. Schiekofler, and R.G. Ulrich. 2014. Autochthonous Dobrava-Belgrade virus infection in Eastern Germany. *Clin Nephro* **63**:111-116.

- Rauls, C., U. Meyer, L. Hüther, D. von Soosten, A. Kinoshita, J. Rehage, G. Breves, and S. Dänicke. 2015. Effects of niacin supplementation (40 weeks) and two dietary levels of concentrate on performance, blood and fatty acid profiles of dairy cattle. *South Afr J Anim Sci* **45**:395-410.
- Reiche, S., Y. Dwai, B.M. Bussmann, S. Horn, M. Sieg, and C. Jassoy. 2015. High Inter-Individual Diversity of Point Mutations, Insertions, and Deletions in Human Influenza Virus Nucleoprotein-Specific Memory B Cells. *PLoS one* **10**:e0128664.
- Reil, D., C. Imholt, S. Drewes, R.G. Ulrich, J.A. Eccard, and J. Jacob. 2015. Environmental conditions in favour of a hantavirus outbreak in 2015 in Germany. *Zoonoses Publ Health* [Epub ahead of print; doi:10.1111/zph.12217]
- Riesenberg, A., H. Kaspar, A.T. Feßler, C. Werckenthin, and S. Schwarz. 2015. Susceptibility testing of *Rhodococcus equi*: an interlaboratory test. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.11.029]
- Rodríguez-Prieto, V., M. Vicente-Rubiano, A. Sánchez-Matamoros, C. Rubio-Guerri, M. Melero, B. Martínez-López, M. Martínez-Avilés, L. Hoinville, T. Vergne, A. Comin, B. Schauer, F. Dórea, D.U. Pfeiffer, and J.M. Sánchez-Vizcaíno. 2014. Systematic review of surveillance systems and methods for early detection of exotic, new and re-emerging diseases in animal populations. *Epidemiol Infect* **143**:2018-2042.
- Roman-Sosa, G., E. Brocchi, H. Schirrmeier, K. Wernike, C. Schelp, and M. Beer. 2015. Analysis of the humoral immune response against the envelope glycoprotein (Gc) of Schmallenberg virus reveals a domain located at the amino terminus targeted by monoclonal antibodies with neutralizing activity. *J Gen Virol* [Epub ahead of print; doi: 10.1099/jgv.0.000377]
- Rosales, R.S., C.P. Churchward, C. Schnee, K. Sachse, I. Lysnyansky, S. Catania, L. Iob, R.D. Ayling, and R.A.J. Nicholas. 2015. Global Multilocus Sequence Typing Analysis of *Mycoplasma bovis* Isolates Reveals Two Main Population Clusters. *J Clin Microbiol* **53**:789-794.
- Ross, R.S., B. Wolters, B. Hoffmann, L. Geue, S. Viazov, N. Grüner, M. Roggendorf, and T. Müller. 2015. Instructive even after a decade: Complete results of initial virological diagnostics and re-evaluation of molecular data in the German rabies virus „outbreak“ caused by transplantations. *Int J Med Microbiol* **305**:636-643.
- Rossi, S., C. Staubach, S. Blome, V. Guberti, H.-H. Thulke, A. Vos, F. Koenen, and M.-F. Le Potier. 2015. Controlling of CSFV in European wild boar using oral vaccination: a review. *Front Microbiol* **6**:1141.
- Rufer, E., D. Kägebein, R.M. Leonhardt, and M.R. Knittler. 2015. Hydrophobic Interactions Are Key To Drive the Association of Tapasin with Peptide Transporter Subunit TAP2. *J Immunol* **195**:5482-5494.
- Sachse, K., P.M. Bavoil, B. Kaltenboeck, R.S. Stephens, C.-C. Kuo, R. Rosselló-Móra, and M. Horn. 2015. Emendation of the family *Chlamydiaceae*: Proposal of a single genus, *Chlamydia*, to include all currently recognized species. *System Appl Microbiol* **38**:99-103.
- Sachse, K., and K. Laroucau. 2015. Two more species of *Chlamydia* - does it make a difference? *FEMS Pathog Dis* **73**(1):1-3.
- Sachse, K., K. Laroucau, and D. Vanrompay. 2015. Avian Chlamydiosis. *Curr Clin Micro Rpt* **2**:10-21.
- Sadri, H., S. Dänicke, U. Meyer, J. Rehage, J. Frank, and H. Sauerwein. 2015. Tocopherols and tocotrienols in serum and liver 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.2015-9710]
- Saito, S., Y.-C. Lin, Y. Murayama, Y. Nakamura, R. Eckner, H. Niemann, and K.K. Yokoyama. 2015. In vitro derivation of mammalian germ cells from stem cells and their potential therapeutic application. *Cell Mol Life Sci* [Epub ahead of print; doi:10.1007/s00018-015-2020-1]

- Samy, A.A., M.I. El-Enbaawy, A.A. El-Sanousi, S.A. Nasef, M.N. Naguib, E.-S.M. Abd El-Whab, H. Hikono, and T. Saito. 2015. Different counteracting host immune responses to clade 2.2.1.1 and 2.2.1.2 Egyptian H5N1 highly pathogenic avian influenza viruses in naïve and vaccinated chickens. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.12.005]
- Schären, M., S. Jostmeier, S. Ruesink, L. Hüther, J. Frahm, M. Bulang, U. Meyer, J. Rehage, J. Isselstein, G. Breves, and S. Dänicke. 2015. The effects of a ration change from a total mixed ration to pasture on health and production of dairy cows. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2015-9873]
- Schares, G., M.C. Langenmayer, M. Majzoub-Altweck, J.C. Scharr, A. Gentile, A. Maksimov, S. Schares, F.J. Conraths, and N.S. Gollnick. 2015. Naturally acquired bovine besnoitiosis: Differential distribution of parasites in the skin of chronically infected cattle. *Vet Parasitol* [Epub ahead of print; doi:10.1016/j.vetpar.2015.12.016]
- Scheuch, M., D. Höper, and M. Beer. 2015. RIEMS: a software pipeline for sensitive and comprehensive taxonomic classification of reads from metagenomics datasets. *BMC Bioinformatics* **16**:69.
- Schiborra, A., M. Bulang, A. Berk, A. Susenbeth, and E. Schlecht. 2015. Using faecal near-infrared spectroscopy (FNIRS) to estimate nutrient digestibility and chemical composition of diets and faeces of growing pigs. *Anim Feed Sci Tech* **210**:234-242.
- Schielke, A., V. Ibrahim, I. Czogiel, M. Faber, C. Schrader, P. Dremsek, R.G. Ulrich, and R. Johne. 2015. Hepatitis E virus antibody prevalence in hunters from a district in Central Germany, 2013: a cross-sectional study providing evidence for the benefit of protective gloves during disembowelling of wild boars. *BMC Infect Dis* **15**:440.
- Schleenvoigt, B.T., L.D. Sprague, K. Mertens, U. Moog, G. Schmoock, G. Wolf, M. Neumann, M.W. Pletz, and H. Neubauer. 2015. Acute Q fever infection in Thuringia, Germany after burial of fawn cadavers (*Capreolus capreolus*) - a case report. *New Microbes and New Infections* **8**:19-20.
- Schlosser, J., A. Vina-Rodriguez, C. Fast, M.H. Groschup, and M. Eiden. 2015. Chronically infected wild boar can transmit genotype 3 hepatitis E virus to domestic pigs. *Vet Microbiol* **180**:15-21.
- Schmelz, M., O. Krüger, J. Call, and E.T. Krause. 2015. A Comparison of Spontaneous Problem-Solving Abilities in Three Estrildid Finch (*Taeniopygia guttata*, *Lonchura striata* var. *domestica*, *Stagonopleura guttata*) Species. *J Comp Psychol* **129**:356-365.
- Schmoock, G., M. Elschner, and L.D. Sprague. 2015. Clear distinction between *Burkholderia mallei* and *Burkholderia pseudomallei* using fluorescent *motB* primers. *Acta Vet Scand* **57**:13.
- Schnee, C., M. Heller, E. Schubert, and K. Sachse. 2015. Point prevalence of infection with *Mycoplasma bovoculi* and *Moraxella* spp. in cattle at different stages of infectious bovine keratoconjunctivitis. *Vet J* **203**:92-96.
- Schneeberg, A., R. Ehricht, P. Slickers, V. Baier, H. Neubauer, S. Zimmermann, D. Rabold, A. Lübke-Becker, and C. Seyboldt. 2015. DNA Microarray-Based PCR Ribotyping of *Clostridium difficile*. *J Clin Microbiol* **53**:433-442.
- Schneider-Bühl, L., B. Polley, C. Süß-Dombrowski, S. Müller, T. Harder, M. Hoferer, and R. Sting. 2015. Nachweis des neuen Influenza A Subtyps H1pdmN2 in einem Schweinebestand mit schwerer respiratorischer Symptomatik. *Berl Münch Tierärztl Wschr* **128**:20-23.
- Scholz, A.M., L. Bünger, J. Kongsro, U. Baulain, and A.D. Mitchell. 2015. Non-invasive methods for the determination of body and carcass composition in livestock: dual-energy X-ray absorptiometry, computed tomography, magnetic resonance imaging and ultrasound: invited review. *Animal* **9**:1250-1264.

- Schröter, C., M. Vallbracht, J. Altenschmidt, S. Kargoll, W. Fuchs, B.G. Klupp, and T.C. Mettenleiter. 2015. Mutations in pseudorabies virus glycoproteins gB, gD and gH functionally compensate for absence of gL. *J Virol* [Epub ahead of print; doi:10.1128/JVI.02739-15]
- Schulz, A.-K., S. Kersten, S. Dänicke, M. Coenen, and I. Vervuert. 2015. Effects of deoxynivalenol in naturally contaminated wheat on feed intake and health status of horses. *Mycotoxin Res* **31**:209-216.
- Schulz, C., M. Beer, and B. Hoffmann. 2015. Schmallenberg virus infection in South American camelids: field and experimental investigations. *Vet Microbiol* **180**:171-179.
- Schulz, C., W.H.M. van der Poel, C. Ponsart, A.B. Cay, F. Steinbach, S. Zientara, M. Beer, and B. Hoffmann. 2015. European interlaboratory comparison of Schmallenberg virus (SBV) real-time RT-PCR detection in experimental and field samples: The method of extraction is critical for SBV RNA detection in semen. *J Vet Diagn Invest* **27**:422-430.
- Schulz, C., M. Ziller, H. Kampen, M. Gaulty, M. Beer, C.G. Grevelding, B. Hoffmann, C. Bauer, and D. Werner. 2015. Culicoides vector species on three South American camelid farms seropositive for bluetongue virus serotype 8 in Germany 2008/2009. *Vet Parasitol* **214**:272-281.
- Schulz, K., J. Frahm, S. Kersten, U. Meyer, J. Rehage, M. Piechotta, M. Meyerholz, G. Breves, D. Reiche, H. Sauerwein, and S. Dänicke. 2015. Effects of Inhibiting Dipeptidyl Peptidase-4 (DPP4) in Cows with Subclinical Ketosis. *PLoS one* **10**:e0136078.
- Schulz, K., J. Frahm, S. Kersten, U. Meyer, D. Reiche, H. Sauerwein, and S. Dänicke. 2015. Effects of elevated parameters of subclinical ketosis on the immune system of dairy cows: *in vivo* and *in vitro* results. *Arch Anim Nutr* **69**:113-127.
- Schulz, K.S., B.G. Klupp, H. Granzow, L. Paßvogel, and T.C. Mettenleiter. 2015. Herpesvirus Nuclear Egress: Pseudorabies Virus can simultaneously induce nuclear envelope breakdown and exit the nucleus via the envelopment-deenvelopment-pathway. *Virus Res* **209**:76-86.
- Schulze-Luehrmann, J., R.A. Eckart, M. Ölke, P. Saftig, E. Liebler-Tenorio, and A. Lührmann. 2015. LAMP proteins account for the maturation delay during the establishment of the *Coxiella burnetii*-containing vacuole. *Cell Microbiol* [Epub ahead of print; doi:10.1111/cmi.12494]
- Schunn, A.-M., F.J. Conraths, C. Staubach, A. Fröhlich, A. Forbes, T. Schnieder, and C. Strube. 2015. Lungenwurminfektionen in deutschen Milchviehherden - Seroprävalenz und GIS-gestützte Risikoanalyse (Republikation). *Tierärztl Umschau* **70**:399-406.
- Schuster, I., M. Mertens, S. Mrenoshki, C. Staubach, C. Mertens, F. Brüning, K. Wernike, S. Hechinger, K. Berxholi, D. Mitrov, and M.H. Groschup. 2015. Sheep and goats as indicator animals for the circulation of CCHFV in the environment. *Exp Appl Acarol* [Epub ahead of print; doi:10.1007/s10493-015-9996-y]
- Schwarm, A., M. Schweigel-Röntgen, M. Kreuzer, S. Ortmann, F. Gill, B. Kuhla, U. Meyer, M. Lohölter, and M. Derno. 2015. Methane emission, digestive characteristics and faecal archaeol in heifers fed diets based on silage from brown midrib maize as compared to conventional maize. *Arch Anim Nutr* **69**:159-176.
- Schwartz-Zimmermann, H.E., P. Fruhmann, S. Dänicke, G. Wiesenberger, S. Caha, J. Weber, and F. Berthiller. 2015. Metabolism of Deoxynivalenol and Deepoxy-Deoxynivalenol in Broiler Chickens, Pullets, Roosters and Turkeys. *Toxins* **7**:4706-4729.
- Schwarz, S., A. Sutor, R. Mattis, and F.J. Conraths. 2015. Der Waschbärspulwurm (*Baylisascaris procyonis*) - kein Zoonoserisiko für Brandenburg? *Berl Münch Tierärztl Wschr* **128**:34-38.
- Schwarz, S., and Y. Wang. 2015. Nomenclature and Functionality of the So-Called *cfr* Gene from *Clostridium difficile*. *Antimicrob Agents Chemother* **59**:2476-2477.



Seyboldt, C., S. Discher, E. Jordan, H. Neubauer, K.C. Jensen, A. Campe, L. Kreienbrock, T. Scheu, A. Wichern, F. Gundling, P. DoDuc, S. Fohler, A. Abdulmawjood, G. Klein, and M. Hoedemaker. 2015. Occurrence of *Clostridium botulinum* Neurotoxin in chronic disease of dairy cows. *Vet Microbiol* **177**:398-402.

Sheikh Ali, H., S. Drewes, V. Weber de Melo, M. Schlegel, J. Freise, M.H. Groschup, G. Heckel, and R.G. Ulrich. 2014. Complete genome of a *Puumala virus* strain from Central Europe. *Virus Genes* **50**:292-298.

Si, H., W.-J. Zhang, S. Chu, X.-M. Wang, L. Dai, X. Hua, Z. Dong, S. Schwarz, and S. Liu. 2015. Novel plasmid-borne multidrug resistance gene cluster including *Isa(E)* from a linezolid-resistant *Enterococcus faecium* of swine origin. *Antimicrob Agents Chemother* **59**:7113-7116.

Siarkou, V.I., F. Vorimore, N. Vicari, S. Magnino, A. Rodolakis, Y. Pannekoek, K. Sachse, D. Longbottom, and K. Laroucau. 2015. Diversification and Distribution of Ruminant *Chlamydia abortus* Clones Assessed by MLST and MLVA. *PLoS one* **10**:e0126433.

Sirotkin, A.V., R. Alexa, P. Dekanova, A. Kadasi, A. Stochmalova, R. Grossmann, S.H. Alwasel, and A.H. Harrath. 2015. The mTOR System Can Affect Basic Ovarian Cell Functions and Mediate the Effect of Ovarian Hormonal Regulators. *Int J Pharmacol* **11**:570-578.

Sirotkin, A.V., and R. Grossmann. 2015. Interrelationship between feeding level and the metabolic hormones leptin, ghrelin and obestatin in control of chicken egg laying and release of ovarian hormones. *Comp Biochem Biophys A* **184**:1-5.

Skurnik, D., O. Clermont, T. Guillard, A. Launay, O. Danilchanka, S. Pons, L. Diancourt, F. Lebreton, K. Kadlec, D. Roux, D. Jiang, S. Dion, H. Achard, M. Denamur, C. Cywes-Bentley, S. Schwarz, O. Tenaillon, A. Andremont, B. Picard, J. Mekalanos, S. Brisse, and E. Denamur. 2015. Emergence of Antimicrobial Resistant *Escherichia coli* of Animal Origin Spreading in Humans. *Mol Biol Evol* [Epub ahead of print; doi: 10.1093/molbev/msv280]

Smith, H., A. Bossers, F. Harders, G. Wu, N. Woodford, S. Schwarz, B. Guerra, I. Rodríguez, A. van Essen-Zandbergen, M.S.M. Brouwer, and D. Mevius. 2015. Characterization of epidemic Inc11- $\beta$  plasmids harbouring Amber class A and C genes in *Escherichia coli* and *Salmonella enterica* from animals and humans. *Antimicrob Agents Chemother* **59**:5357-5365.

Spehar-Délèze, A.-M., R. Gransee, S. Martinez-Montequin, D. Bejarano-Nosas, S. Dulay, S. Julich, H. Tomaso, and C.K. O'Sullivan. 2015. Electrochemiluminescence DNA sensor array for multiplex detection of biowarfare agents. *Anal Bioanal Chem* **407**:6657-6667.

Sprague, L.D., and H. Neubauer. 2015. *De Novo* Genome Sequence of *Yersinia aleksiciae* Y159<sup>T</sup>. *Genome Announcements* **3**:e01066-15.

Stadler, J., S. Zoels, R. Fux, D. Hanke, A. Pohlmann, S. Blome, H. Weissenböck, C. Weissenbacher-Lang, M. Ritzmann, and A. Ladinig. 2015. Emergence of porcine epidemic diarrhea virus in southern Germany. *BMC Vet Res* **11**:142.

Stech, O., J. Veits, E.M. Abdelwhab, U. Wessels, T.C. Mettenleiter, and J. Stech. 2015. The Neuraminidase Stalk Deletion Serves as Major Virulence Determinant of H5N1 Highly Pathogenic Avian Influenza Viruses in Chicken. *Sci Rep* **5**:13493.

Štochmaľová, A., M. Földešiová, A. Baláži, A. Kádasi, R. Grossman, R. Alexa, P. Chrenek, and A.V. Sirotkin. 2015. *Yucca schidigera* Extract Can Promote Rabbit Fecundity and Ovarian Progesterone Release. *Theriogenology* **84**:634-638.

Stöckel, S., S. Meisel, M. Elschner, F. Melzer, P. Rösch, and J. Popp. 2015. Raman spectroscopic detection and identification of *Burkholderia mallei* and *Burkholderia pseudomallei* in feedstuff. *Anal Bioanal Chem* **407**:787-794.

- Stratmann, A., E.K.F. Fröhlich, A. Harlander-Matauschek, L. Schrader, M.J. Toscano, H. Würbel, and S.G. Gebhardt-Henrich. 2015. Soft Perches in an Aviary System Reduce Incidence of Keel Bone Damage in Laying Hens. *PLoS one* **10**:e0122568.
- Talluri, T.R., D. Kumar, S. Glage, W. Garrels, Z. Ivics, K. Debowski, R. Behr, H. Niemann, and W.A. Kues. 2015. Derivation and Characterization of Bovine Induced Pluripotent Stem Cells by Transposon-Mediated Reprogramming. *Cell Reprog* **17**:131-140.
- Tanner, M., O. Inlameia, A. Michel, G. Maxlhuza, A. Pondja, J. Fafetine, B. Macucule, M. Zacarias, J. Manguela, I.C. Moiane, A.S. Marranangumbe, F. Mulandane, C. Schönfeld, I. Moser, P. van Helden, and A. Machado. 2015. Bovine Tuberculosis and Brucellosis in Cattle and African Buffalo in the Limpopo National Park, Mozambique. *Transbound Emerg Dis* **62**:632-638.
- Tappe, D., J. Schmidt-Chanasit, and M. Beer. 2015. Bornavirus Associated with Fatal Human Encephalitis. *New Engl J Med* **373**:1880-1881.
- Tauscher, K., J. Pietschmann, K. Wernike, J.P. Teifke, M. Beer, and S. Blome. 2015. Zur Situation der Afrikanischen Schweinepest und der biologischen Charakterisierung aktueller Virusisolate. *Berl Münch Tierärztl Wschr* **128**(5/6):169-176.
- Taylor, U., D. Tiedemann, C. Rehbock, W.A. Kues, S. Barcikowski, and D. Rath. 2015. Influence of gold, silver and gold-silver alloy nanoparticles on germ cell function and embryo development. *Beilstein J Nanotechnol* **6**:651-664.
- Tesch, T., E. Bannert, J. Kluess, J. Frahm, S. Kersten, G. Breves, L. Renner, S. Kahlert, H.-J. Rothkötter, and S. Dänicke. 2015. Does Dietary Deoxynivalenol Modulate the Acute Phase Reaction in Endotoxaemic Pigs? - Lessons from Clinical Signs, White Blood Cell Counts, and TNF-Alpha. *Toxins* **8**:3.
- Tienken, R., S. Kersten, J. Frahm, H. Hüther, U. Meyer, K. Huber, J. Rehage, and S. Dänicke. 2015. Effects of Parturient Dietary Energy Level and Nicotinic Acid Supplementation on Immunological, Hematological and Biochemical Parameters of Periparturient Dairy Cows Differing in Parity. *Animals* **5**:910-933.
- Tienken, R., S. Kersten, J. Frahm, U. Meyer, L. Locher, J. Rehage, K. Huber, Á. Kenéz, H. Sauerwein, M. Mielenz, and S. Dänicke. 2015. Effects of an energy-dense diet and nicotinic acid supplementation on production and metabolic variables of primiparous or multiparous cows in periparturient period. *Arch Anim Nutr* **69**:319-339.
- Tienken, R., S. Kersten, L. Hüther, J. Frahm, U. Meyer, and S. Dänicke. 2015. Relative Bioavailability of Niacin Supplements for Dairy Cows: Effects of Rumen Protection and of Feed Processing. *Vet Sci* **2**:440-455.
- Übel, N., S. Zöls, W. Otten, C. Sauter-Louis, K. Heinritzi, M. Ritzmann, and M. Eddicks. 2015. Auswirkungen der zeitgleichen Durchführung zootechnischer Eingriffe an Saugferkeln. *Tierärztl Prax* **43**(G):359-366.
- Uhde, A.-K., J. Kilwinski, M. Peters, J. Verspohl, A.T. Feßler, S. Schwarz, and P. Wohlsein. 2015. Fatal nocardiosis in a dog caused by multiresistant *Nocardia veterana*. *Vet Microbiol* [Epub ahead of print; doi:10.1016/j.vetmic.2015.12.001]
- Ulloa, S.M.B., J. Heinzmann, D. Herrmann, B. Timmermann, U. Baulain, R. Großfeld, M. Diederich, A. Lucas-Hahn, and H. Niemann. 2015. Effects of different oocyte retrieval and in vitro maturation systems on bovine embryo development and quality. *Zygote* **23**:367-377.
- Umar, S., A. Rehman, M. Younus, A.A. Qamar-un-Nisa, M. Shahzad, M.A.A. Shah, M.T. Munir, H. Bin Aslam, and M. Yaqoob. 2015. Effects of *Nigella sativa* on immune responses and pathogenesis of avian influenza (H9N2) virus in turkeys. *J Appl Poultry Res* [Epub ahead of print; doi:10.3382/japr/pfv070]

- Valeur Seersholm, F., A. Fischer, M. Heller, J. Jores, K. Sachse, T. Mourier, and A.J. Hansen. 2015. Draft Genome Sequence of the First Human Isolate of the Ruminant Pathogen *Mycoplasma capricolum* subsp. *capricolum*. *Genome Announcements* 3:e00583-15.
- Verleih, M., A. Borchel, A. Krasnov, A. Rebl, T. Korytář, C. Kühn, and T. Goldammer. 2015. Impact of Thermal Stress on Kidney-Specific Gene Expression in Farmed Regional and Imported Rainbow Trout. *Marine Biotechnol* 17:576-592.
- Vina-Rodriguez, A., J. Schlosser, D. Becher, V. Kaden, M.H. Groschup, and M. Eiden. 2015. Hepatitis E Virus Genotype 3 Diversity: Phylogenetic Analysis and Presence of Subtype 3b in Wild Boar in Europe. *Viruses* 7:2704-2726.
- Vlaeminck, B., R. Gervais, M.M. Rahman, F. Gadeyne, M. Gorniak, M. Doreau, and V. Fievez. 2015. Postruminal synthesis modifies the odd- and branched-chain fatty acid profile from the duodenum to milk. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2014-9207]
- Voget, M., D. Lorenz, E. Liebler-Tenorio, R. Hauck, M. Meyer, and M. Cieslicki. 2015. Is transmission electron microscopy (TEM) a promising approach for qualitative and quantitative investigations of polymyxin B and miconazole interactions with cellular and subcellular structures of *Staphylococcus pseudintermedius*, *Escherichia coli*, *Pseudomonas aeruginosa* and *Malassezia pachydermatis*? *Vet Microbiol* 181:261-270.
- Wang, Y., Y. Lv, J. Cai, S. Schwarz, L. Cui, Z. Hu, R. Zhang, J. Li, Q. Zhao, T. He, D. Wang, Z. Wang, Y. Shen, Y. Li, A.T. Feßler, C. Wu, H. Yu, X. Deng, X. Xia, and J. Shen. 2015. A novel gene, *optrA*, that confers transferable resistance to oxazolidinones and phenicols and its presence in *Enterococcus faecalis* and *Enterococcus faecium* of human and animal origin. *J Antimicrob Chemother* 70:2182-2190.
- Wang, Y., W. Zeng, Y. Li, H. Liang, C. Liu, H. Pan, P. Lee, S. Wu, S.M. Bergmann, and Q. Wang. 2014. Development and characterization of a cell line from the snout of koi (*Cyprinus carpio* L.) for detection of koi herpesvirus. *Aquaculture* 435:310-317.
- Wanka, F., T. Cairns, S. Boecker, C. Berens, A. Happel, X. Zheng, J. Sun, S. Krappmann, and V. Meyer. 2015. Tet-on, or Tet-off, that is the question: Advanced Conditional Gene Expression in *Aspergillus*. *Fungal Genet Biol* [Epub ahead of print; doi:10.1016/j.fgb.2015.11.003]
- Wareth, G., D. Böttcher, F. Melzer, A.A. Shehata, U. Roesler, H. Neubauer, and H.-A. Schoon. 2015. Experimental infection of chicken embryos with recently described *Brucella microti*: Pathogenicity and pathological findings. *Comp Immunol Microbiol Infect Dis* 41:28-34.
- Wareth, G., F. Melzer, H. Tomaso, U. Roesler, and H. Neubauer. 2015. Detection of *Brucella abortus* DNA in aborted goats and sheep in Egypt by real-time PCR. *BMC Res Notes* 8:212.
- Wareth, G., F. Melzer, C. Weise, H. Neubauer, U. Roesler, and J. Murugaiyan. 2015. Proteomics based identification of immunodominant proteins of *Brucellae* using sera from infected hosts points towards enhanced pathogen survival during the infection. *Biochem Biophys Res Comm* 456:202-206.
- Wareth, G., F. Melzer, C. Weise, U. Roesler, H. Neubauer, and J. Murugaiyan. 2015. Mass spectrometry data from proteomics-based screening of immunoreactive proteins of fully virulent *Brucella* strains and sera from naturally infected animals. *Data in Brief* 4:587-590.
- Waret-Szkuta, A., D. Raboisson, J. Niemi, M. Aragrande, J. Gethmann, S.B. Martins, L. Hans, D. Höreth-Böntgen, P. Sans, K.D. Stärk, J. Rushton, and B. Häslér. 2015. Status Report on Education in the Economics of Animal Health: Results from a European Survey. *J Vet Med Educ* 42:36-44.
- Watson, S.J., P. Langat, S.M. Reid, T.T.-Y. Lam, M. Cotten, M. Kelly, K. Van Reeth, Y. Qiu, G. Simon, E. Bonin, E. Foni, C. Chiapponi, L. Larsen, C. Hjulsager, I. Markowska-Daniel, K. Urbaniak, R. Dürrwald, M. Schlegel, A. Huovilainen, I. Davidson, Á. Dán, W. Loeffen, S. Edwards, M. Bublot, T. Vila, J. Maldonado, L. Valls, ESNIP Consortium, I.H. Brown, O.G. Pybus, P. Kellam. 2015.

Molecular Epidemiology and Evolution of Influenza Viruses Circulating within European Swine between 2009 and 2013. *J Virol* **89**:9920-9931.

Weber, M., L. Locher, K. Huber, Á. Kenéz, J. Rehage, R. Tienken, U. Meyer, S. Dänicke, H. Sauerwein, and M. Mielenz. 2015. Longitudinal changes in adipose tissue of dairy cows from late pregnancy to lactation. Part 1: The adipokines apelin and resistin and their relationship to receptors linked with lipolysis. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2015-10131]

Weber, M., L. Locher, K. Huber, J. Rehage, R. Tienken, U. Meyer, S. Dänicke, L. Webb, H. Sauerwein, and M. Mielenz. 2015. Longitudinal changes in adipose tissue of dairy cows from late pregnancy to lactation. Part 2: The SIRT-PPARGC1A axis and its relationship with the adiponectin system. *J Dairy Sci* [Epub ahead of print; doi:10.3168/jds.2015-10132]

Weber de Melo, V., H. Sheikh Ali, J. Freise, D. Kühnert, S. Essbauer, M. Mertens, K.M. Wanka, S. Drewes, R.G. Ulrich, and G. Heckel. 2015. Spatiotemporal dynamics of Puumala hantavirus associated with its rodent host, *Myodes glareolus*. *Evol Appl* **8**:545-559.

Wendlandt, S., S. Heß, J. Li, A.T. Feßler, Y. Wang, K. Kadlec, C. Gallert, and S. Schwarz. 2015. Detection of the macrolide-lincosamide-streptogramin B resistance gene *erm(44)* and a novel *erm(44)* variant in staphylococci from aquatic environments. *FEMS Microbiol Ecol* **91**:fiv090.

Wendlandt, S., K. Kadlec, A.T. Feßler, and S. Schwarz. 2015. Identification of ABC transporter genes conferring combined pleuromutilin-lincosamide-streptogramin A resistance in bovine methicillin-resistant *Staphylococcus aureus* and coagulase-negative staphylococci. *Vet Microbiol* **177**:353-358.

Wendlandt, S., K. Kadlec, and S. Schwarz. 2015. Four novel plasmids from *Staphylococcus hyicus* and CoNS that carry a variant of the spectinomycin resistance gene *spd*. *J Antimicrob Chemother* **70**:948-949.

Wendlandt, S., J. Shen, K. Kadlec, Y. Wang, B. Li, W.-J. Zhang, A.T. Feßler, C. Wu, and S. Schwarz. 2015. Multidrug resistance genes in staphylococci from animals that confer resistance to critically and highly important antimicrobial agents in human medicine. *Trends Microbiol* **23**:44-54.

Werner, D., and H. Kampen. 2015. *Aedes albopictus* breeding in southern Germany, 2014. *Parasitol Res* **114**:831-834.

Werner, D., D.E. Zielke, and H. Kampen. 2015. First record of *Aedes koreicus* (Diptera: Culicidae) in Germany. *Parasitol Res* [Epub ahead of print; doi:10.1007/s00436-015-4848-6]

Wernike, K., E. Brocchi, P. Cordioli, Y. Sénéchal, C. Schelp, A. Wegelt, A. Aebischer, G. Roman-Sosa, I. Reimann, and M. Beer. 2015. A novel panel of monoclonal antibodies against Schmallenberg virus nucleoprotein and glycoprotein Gc allows specific orthobunyavirus detection and reveals antigenic differences. *Vet Res* **46**:27.

Wernike, K., A. Elbers, and M. Beer. 2015. Schmallenberg virus infection. *Rev Sci Tech OIE* **34**:363-373.

Wernike, K., B. Hoffmann, and M. Beer. 2015. Simultaneous detection of five notifiable viral diseases of cattle by single tube multiplex real-time RT-PCR. *J Virol Meth* **217**:28-35.

Wernike, K., B. Hoffmann, F.J. Conraths, and M. Beer. 2015. Schmallenberg Virus Recurrence, Germany, 2014. *Emerg Infect Dis* **21**:1202-1204.

Wernike, K., M. Holsteg, M. Saßerath, and M. Beer. 2015. Schmallenberg virus antibody development and decline in a naturally infected dairy cattle herd in Germany, 2011-2014. *Vet Microbiol* **181**:294-297.

- Wessels, U., O. Stech, E.M. Abdelwhab, A. Judel, T.C. Mettenleiter, and J. Stech. 2015. Improved Universal Cloning of Influenza A Virus Genes by LacZ $\alpha$ -Mediated Blue/White Selection. *J Virol Methods* **225**:87-89.
- van de Wetering, D., C. Oliveira dos Santos, M. Wagelaar, M. de Kleuver, M.G.J. Koene, H.I.J. Roest, B. Sinha, W.F.W. Bierman, and Y. Stienstra. 2015. A cluster of tularaemia after contact with a dead hare in the Netherlands. *Neth J Med* **73**:481-482.
- Winkler, J., S. Kersten, U. Meyer, H. Stinshoff, L. Locher, J. Rehage, C. Wrenzycki, U.H. Engelhardt, and S. Dänicke. 2015. Diagnostic opportunities for evaluation of the exposure of dairy cows to the mycotoxins deoxynivalenol (DON) and zearalenone (ZEN): reliability of blood plasma, bile and follicular fluid as indicators. *J Anim Physiol Anim Nutr* **99**:847-855.
- Winkler, J., S. Kersten, H. Valenta, L. Hüther, U. Meyer, U. Engelhardt, and S. Dänicke. 2015. Simultaneous determination of zearalenone, deoxynivalenol and their metabolites in bovine urine as biomarkers of exposure. *World Mycotox J* **8**:63-74.
- Winkler, J., S. Kersten, H. Valenta, U. Meyer, U.H. Engelhardt, and S. Dänicke. 2015. Development of a multi-toxin method for investigating the carryover of zearalenone, deoxynivalenol and their metabolites into milk of dairy cows. *Food Addit Contam A* **32**:371-380.
- Winter, L., U. Meyer, D. von Soosten, M. Gorniak, P. Lebzien, and S. Dänicke. 2015. Effect of phytase supplementation on rumen fermentation characteristics and phosphorus balance in lactating dairy cows. *It J Anim Sci* **14**:53-61.
- Wülbers-Mindermann, M., C. Berg, G. Illmann, U. Baulain, and B. Algers. 2015. The effect of farrowing environment and previous experience on the maternal behaviour of sows in indoor pens and outdoor huts. *Animal* **9**:669-676.
- Xia, H. R. Harimoorthy, B. Vijayaraghavan, S. Blome, F. Widén, M. Beer, S. Belák, and L. Liu. 2015. Differentiation of classical swine fever virus infection from CP7\_E2alf marker vaccination by a multiplex microsphere immunoassay. *Clin Vaccin Immunol* **22**:65-71.
- Yamaguchi, T., F. Takizawa, U. Fischer, and J.M. Dijkstra. 2015. Along the Axis between Type 1 and Type 2 Immunity; Principles Conserved in Evolution from Fish to Mammals. *Biology* **4**:814-859.
- Zeev-Ben-Mordehai, T., M. Weberruß, M. Lorenz, J. Cheleski, T. Hellberg, C. Whittle, K. El Omari, D. Vasishtan, K.C. Dent, K. Harlos, K. Franzke, C. Hagen, B.G. Klupp, W. Antonin, T.C. Mettenleiter, and K. Grünewald. 2015. Crystal Structure of the Herpesvirus Nuclear Egress Complex Provides Insights into Inner Nuclear Membrane Remodeling. *Cell Rep* **13**:2645-2652.
- Zhang, R., B. Sun, Y. Wang, L. Lei, S. Schwarz, and C. Wu. 2015. Characterization of a *cfr*-carrying plasmid from porcine *Escherichia coli* that closely resembles plasmid pEA3 from the plant pathogen *Erwinia amylovora*. *Antimicrob Agents Chemother* [Epub ahead of print; doi:10.1128/AAC.02114-15]
- Zhang, W.-J., X.-M. Wang, L. Dai, X. Hua, Z. Dong, S. Schwarz, and S. Liu. 2015. Novel Conjugative Plasmid from *Escherichia coli* of Swine Origin That Coharbors the Multiresistance Gene *cfr* and the Extended-Spectrum- $\beta$ -Lactamase Gene *bla*<sub>CTX-M-14b</sub>. *Antimicrob Agents Chemother* **59**:1337-1340.
- Zhou, Y., X. Wei, Z. Zi, B. Zou, S. Xia, N. Lu, H. Lei, Y. Lu, N. Parvizi, and D. Xia. 2014. Potassium diformate influences gene expression of GH/IGF-I axis and glucose homeostasis in weaning piglets. *Livestock Sci* **172**:85-90.
- Ziegler, U., H. Jöst, K. Müller, D. Fischer, M. Rinder, D.T. Tietze, K.-J. Danner, N. Becker, J. Skuballa, H.-P. Hamann, S. Bosch, C. Fast, M. Eiden, J. Schmidt-Chanasit, and M.H. Groschup. 2015. Epidemic Spread of Usutu Virus in Southwest Germany in 2011 to 2013 and Monitoring of Wild Birds for Usutu and West Nile Viruses. *Vector-Borne Zoon Dis* **15**:481-488.

Zielke, D.E., A. Ibáñez-Justicia, K. Kalan, E. Merdić, H. Kampen, and D. Werner. 2015. Recently discovered *Aedes japonicus japonicus* (Diptera: Culicidae) populations in The Netherlands and northern Germany resulted from a new introduction event and from a split from an existing population. *Parasite Vector* 8:40.

Zimmermann, K., V.D. van Phi, A. Brase, and L. Phi-van. 2015. Inhibition of serotonin transporter expression by C/EBPβ in LPS-activated macrophage cells (HDII). *Innate Immun* 2:406-415.

Zühlsdorf, M., S. Werten, B.G. Klupp, G.J. Palm, T.C. Mettenleiter, and W. Hinrichs. 2015. Dimerization-Induced Allosteric Changes of the Oxyanion-Hole Loop Activate the Pseudorabies Virus Assemblin pUL26N, a Herpesvirus Serine Protease. *PLoS Pathog* 11:e1005045.

## Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings

Beer, M., and D. Höper. 2015. Hochdurchsatz-Sequenzierung: neue Möglichkeiten für die Analyse und Qualitätssicherung von Impfstoffen. *In: Abstracts des Frühjahrssymposiums der Akademie für Tiergesundheit (19.-20. Februar 2015, Schloss Montabaur) „Moderne Impfstrategien und Immunmodulation in der Nutztiermedizin“*. Berl Münch Tierärztl Wschr 128:483-494.

Berk, A., W. Liermann, and S. Dänicke. 2015. Einfluss der Anzahl der Sammeltage bei Bilanzversuchen mit wachsenden Schweinen auf die Verdaulichkeitswerte. *In: Verband der Landwirtschaftskammern (Hrsg.), 10. Forum angewandte Forschung in der Rinder- und Schweinehaltung vom 14. bis 15.04.2015, Fulda, S. 157-160.*

Berk, J. 2015. Rote Vogelmilbe: Über den Tellerrand schauen. *DGS Magazin* 40/2015:14-18.

Berk, J., E. Stehle, and T. Bartels. 2015. Kannibalismusprävention bei schnabelunbehandelten Puten - Bedeutung des Lichts schrittweise klären. *DGS Magazin* 23/2015:34-37.

Binici, C., E. Weber, U. Meyer, S. Dänicke, and J. Rehage. 2015. Auswirkungen einer postpartalen CLA-Supplementation auf Insulin-Response und Glukosestoffwechsel bei Primipara der Rasse Deutsche Holstein. *In: Füll, M. (Hrsg.), Zukunft gestalten: 40 Jahre Präventivmedizin, Leipzig, S. 128-129.*

Bünger, B. 2015. Weniger Aggressionen in Mischbuchten. *SUS Schweinezucht und Schweinemast* 1/2015:4.

Dänicke, S. 2015. Globale Rohstoffe und ihre Mykotoxine - Herausforderungen für die Tiergesundheit und Carry over in lokale Lebensmittel. *In: Proc. 14. BOKU-Symposium Tierernährung 2015 "Globale Rohstoffe - lokale Lebensmittel: Zielkonflikte für die Tierernährung, Wien, 09.04.2015, S. 7-14.*

Dänicke, S., and J. Winkler. 2015. Diagnostik und Bekämpfung von Mykotoxikosen beim Rind. *In: Füll, M. (Hrsg.), Zukunft gestalten: 40 Jahre Präventivmedizin, Leipzig, S. 130-136.*

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrson, P. van Beelen, R.J. Wallace, J. Westendorf, J. Gropp, P. Brantom, G. Bories, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Coxiril® (diclazuril) for rabbits for fattening and breeding. *EFSA J* 13:3968.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrson, P. van Beelen, R.J. Wallace, J. Westendorf, P.S. Cocconcilli, A. Chesson, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Biomin®C3 (*Bifidobacterium animalis* ssp. *animalis*, *Lactobacillus*

*salivarius* ssp. *salivarius* and *Enterococcus faecium*) as feed additive for chickens for fattening, chickens reared for laying and minor avian species other than laying species. EFSA J 13:3966.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, I. Halle, and P. Mosesso. 2015. Scientific Opinion on the safety of Hostazym X as a feed additive for poultry and pigs. EFSA J 13:3969.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, G. Bories, J. Gropp, A. Mantovani, M. Anguita, J.C. Abrahantes, and P. Manini. 2015. Scientific Opinion on the safety of *Solanum glaucophyllum* standardised leaves as feed material. EFSA J 13:3967.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, A. Chesson, and A.-K. Lundebye. 2015. Scientific Opinion on the safety and efficacy of glycyrrhizic acid ammoniated (chemical group 30, miscellaneous substances) when used as a flavouring for all animal species. EFSA J 13:3971.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, P.S. Cocconcelli, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of *Bacillus subtilis* PB6 (*Bacillus subtilis*) as a feed additive for laying hens and minor poultry species for laying. EFSA J 13:3970.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, and J. Gropp. 2015. Scientific Opinion on the safety and efficacy of L-valine produced by *Escherichia coli* NITE SD 00066 for all animal species. EFSA J 13:3965.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, N. Dierick, A. Mantovani, and E. van Damme. 2015. Scientific Opinion on the safety and efficacy of Suilectin™ (*Phaseolus vulgaris* lectins) as a zootechnical additive for suckling piglets (performance enhancer). EFSA J 13:3903.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-tryptophan produced by *Escherichia coli* CGMCC 7.59 for all animal species based on a dossier submitted by HELM AG on behalf of Meihua Holdings Co. Ltd. EFSA J 13:4015.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, G. Bories, P. Brantom, I. Halle, and J. Gropp. 2015. Scientific Opinion on the safety and efficacy of Cygro® 10G (maduramicin ammonium- $\alpha$ ) for turkeys. EFSA J 13:4013.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, P.S. Cocconcelli, and Mézes. 2015. Scientific Opinion on the safety and efficacy of hexamethylene tetramine as a silage additive for pigs, poultry, bovines, sheep, goats, rabbits and horses. EFSA J 13:4014.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, and A. Chesson. 2015. Scientific Opinion on the safety and efficacy of XTRACT® Evolution-B, Code X60-6930 (carvacrol, cinnamaldehyde and capsicum oleoresin), as a feed additive for chickens for fattening. EFSA J 13:4011.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, and J. Gropp. 2015. Scientific Opinion on the safety and efficacy of DL-methionyl-DL-methionine for all aquatic animal species. EFSA J 13:4012.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, N. Dierick, J. Gropp, and P. Wester. 2015. Scientific Opinion on the safety and efficacy of citric acid when used as a technological additive (preservative) for all animal species. EFSA J 13:4009.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, N. Dierick, J. Gropp, and P. Wester. 2015. Scientific Opinion on the safety and efficacy of citric acid when used as a technological additive (acidity regulator) for all animal species. EFSA J 13:4010.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, A. Chesson, and A.-K. Lundebye. 2015. Scientific Opinion on the safety and efficacy of aliphatic and aromatic hydrocarbons (chemical group 31) when used as flavourings for all animal species. EFSA J 13:4053.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-lysine monohydrochloride produced by fermentation with *Escherichia coli* for all animal species based on a dossier submitted by HELM AG on behalf of Meihua Holdings Group Co. Ltd. EFSA J 13:4052.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-threonine produced by *Escherichia coli* for all animal species based on a dossier submitted by HELM AG on behalf of Meihua Holdings Group Co. Ltd. EFSA J 13:4051.



EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, and A. Chesson. 2015. Scientific Opinion on the safety and efficacy of Cibenza® EP150 (a preparation of *Bacillus licheniformis* (ATCC 53757) and its protease (EC 3.4.21.19)) as a feed additive for chickens for fattening, chickens reared for laying and minor avian species for fattening and to point of lay and ornamental birds. EFSA J 13:4055.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, I. Halle, and P. Mosesso. 2015. Scientific Opinion on the safety of Hostazym® C (endo-1,4-beta-glucanase) as a feed additive for chickens for fattening, all other birds for fattening and piglets (weaned). EFSA J 13:4054.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, N. Dierick, J. Gropp, and A. Mantovani. 2015. Scientific Opinion on the safety and efficacy of zinc compounds (E6) as feed additives for all animal species (zinc acetate, dihydrate; zinc chloride, anhydrous; zinc oxide; zinc sulphate, heptahydrate; zinc sulphate, monohydrate; zinc chelate of amino acids, hydrate; zinc chelate of glycine, hydrate), based on a dossier submitted by FEFANA asbl. EFSA J 13:4058.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, N. Dierick, J. Gropp, and A. Mantovani. 2015. Scientific Opinion on the safety and efficacy of copper compounds (E4) as feed additives for all animal species (cupric acetate, monohydrate; basic cupric carbonate, monohydrate; cupric chloride, dihydrate; cupric oxide; cupric sulphate, pentahydrate; cupric chelate of amino acids, hydrate; cupric chelate of glycine, hydrate), based on a dossier submitted by FEFANA asbl. EFSA J 13:4057.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, N. Dierick, J. Gropp, and P. Wester. 2015. Scientific Opinion on the safety and efficacy of formic acid, ammonium formate and sodium formate as feed hygiene agents for all animal species. EFSA J 13:4113.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, J. Gropp, G. Bories, and A. Mantovani. 2015. Scientific Opinion on safety and efficacy of vitamin B<sub>12</sub> (cyanocobalamin) produced by *Ensifer adhaerens* when used as a feed additive for all animal species based on a dossier submitted by Lohamnn Animal Health. EFSA J 13:4112.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-valine (L-valine, feed grade) produced by *Escherichia coli* NITE BP-01755 for all animal species based on a dossier submitted by Ajinomoto Eurolysine S.A.S.. EFSA J 13:4110.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P.

van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, P.S. Cocconcelli, and I. Halle. 2015. Efficacy of Fecinor® and Fecinor® plus (*Enterococcus faecium*) as feed additives for weaned piglets. EFSA J 13:4111.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, N. Dierick, J. Gropp, and A. Mantovani. 2015. Scientific Opinion on the safety and efficacy of iron compounds (E1) as feed additives for all animal species: ferrous carbonate based on a dossier submitted by Ankerpoort N.V.. EFSA J 13:4109.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, J. Gropp, G. Bories, A.-K. Lundebye, and C. Nebbia. 2015. Scientific Opinion on complexation products of sodium tartrates with iron(III) chloride for all animal species and categories. EFSA J 13:4114.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Rovabio® Spiky (endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase) as a feed additive for turkeys and minor poultry species for fattening or reared for laying or breeding. EFSA J 13:4106.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of AGal-Pro BL/BL-L (alpha-galactosidase and endo-1,4-beta-glucanase) as a feed additive for laying hens and minor poultry species for laying. EFSA J 13:4107.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, G. Bories, J. Gropp, and A.-K. Lundebye. 2015. Scientific Opinion on the safety and efficacy of indigo carmine (E 132) for cats and dogs and ornamental fish. EFSA J 13:4108.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, N. Dierick, J. Gropp, and P. Wester. 2015. Scientific Opinion on the safety and efficacy of ammonium formate, calcium formate and sodium formate when used as a technological additive for all animal species. EFSA J 13:4056.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, A. Chesson, N. Dierick, J. Gropp, and P. Wester. 2015. Scientific Opinion on the safety and efficacy of AviMatrix® (benzoic acid, calcium formate and fumaric acid) for chickens for fattening, chickens reared for laying, minor avian species for fattening and minor avian species reared to point of lay. EFSA J 13:3794.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.J. Wallace, P. Wester, P. Brantom, N. Dierick, and I. Halle. 2015.

Scientific Opinion on the modification of the terms of the authorisation of OPTIPHOS® (6-phytase) as a feed additive for pigs for fattening. EFSA J 13:4200.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-lysine monohydrochloride, technically pure, produced with *Escherichia coli* CGMCC 3705 and L-lysine sulphate produced with *Corynebacterium glutamicum* CGMCC 3704 for all animal species, based on a dossier submitted by HELM AG. EFSA J 13:4156.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, J. Gropp, P.S. Cocconcelli, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-lysine sulphate produced by fermentation with *Escherichia coli* CGMCC 3705 for all animal species. EFSA J 13:4155.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, J. Gropp, G. Bories, C. Nebbia, and A.-K. Lundebye. 2015. Scientific Opinion on the safety and efficacy of lignosulphonate as a feed additive for all animal species. EFSA J 13:4160.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of ENZY PHOSTAR® (6-phytase) as a feed additive for avian and porcine species. EFSA J 13:4159.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, P.S. Cocconcelli, A. Chesson, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Cylactin® (*Enterococcus faecium* NCIMB 10415) as a feed additive for pigs for fattening, piglets and sows. EFSA J 13:4158.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, L.G. Costa, G. Flachowsky, M.A. Gralak, C. Hogstrand, L. Leng, S. López-Puente, G. Martelli, B. Mayo, F. Ramos, D. Renshaw, G. Rychen, M. Saarela, K. Sejrsen, P. van Beelen, R.J. Wallace, J. Westendorf, and A. Chesson. 2015. Scientific Opinion on the safety and efficacy of VevoVital® (benzoic acid) as a feed additive for pigs for reproduction (gestating and lactating sows, boars and gilts). EFSA J 13:4157.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, L.G. Costa, L. Leng, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-tryptophan, technically pure, produced by *Escherichia coli* strains DSM 25084, KCCM 11132P or SARI12091203 for all animal species based on a dossier submitted by AMAC EEIG. EFSA J 13:4238.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G.

Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, L.G. Costa, L. Leng, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Efficacy of Friedland clay (montmorillonite-illite mixed layer clay) when used as a technological additive for all animal species. EFSA J 13:4237.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Kemzyme® Plus Dry (endo-1,3(4)-beta-glucanase, endo-1,4-beta-glucanase, alpha-amylase, bacillolysin and endo-1,4-beta-xylanase) for poultry, ornamental birds and piglets (weaned). EFSA J 13:4234.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Kemzyme® Plus Liquid (endo-1,3(4)-beta-glucanase, endo-1,4-beta-glucanase, alpha-amylase and endo-1,4-beta-xylanase) as a feed additive for poultry species and ornamental birds. EFSA J 13:4235.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, L.G. Costa, L. Leng, B. Glandorf, L. Herman, S. Kärenlampi, and C. Tebbe. 2015. Scientific Opinion on the safety and efficacy of L-threonine produced by *Escherichia coli* strains NRRL B-30843, DSM 26131, KCCM11133P or DSM 25085 for all animal species based on a dossier submitted by AMAC EEIG. EFSA J 13:4236.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, A.-K. Lundebye, D. Renshaw, and J. Westendorf. 2015. Update of the Scientific Opinion on the safety and efficacy of erythrosine in feed for cats, dogs, reptiles and ornamental fish. EFSA J 13:4233.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and I. Halle. 2015. Safety and efficacy of Calsporin® (*Bacillus subtilis* DSM 15544) as a feed additive for laying hens and avian species for laying. EFSA J 13:4231.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and N. Dierick. 2015. Scientific Opinion on the safety and efficacy of sorbic acid and potassium sorbate when used as technological additives for all animal species based on two dossiers from Nutrinova Nutrition Specialties & Food Ingredients GmbH. EFSA J 13:4239.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of *Bacillus subtilis* KCCM 10673P and *Aspergillus oryzae* KCTC 10258BP as feed additives for all animal species. EFSA J 13:4230.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Fecinor® soluble and Fecinor® soluble plus (*Enterococcus faecium* CECT 4515) as a feed additive for piglets and chickens for fattening. EFSA J 13:4232.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, M.A. Gralak, A.-K. Lundebye, C. Nebbia, and D. Renshaw. 2015. Safety and efficacy of ethoxyquin (6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline) for all animal species. EFSA J 13:4272.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, D. Renshaw, and C. Hogstrand. 2015. Scientific Opinion on the efficacy of Suilectin TM (*Phaseolus vulgaris* lectins) as a zootechnical additive for suckling piglets (performance enhancer). EFSA J 13:4276.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, N. Dierick, and I. Halle. 2015. Scientific Opinion on the safety and efficacy of Aextra® PHY 15 000 L (6-phytase) as a feed additive for poultry and porcine species. EFSA J 13:4275.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and I. Halle. 2015. Safety and efficacy of Calsporin® (*Bacillus subtilis* DSM 15544) as a feed additive for ornamental fish. EFSA J 13:4274.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, D. Renshaw, and C. Hogstrand. 2015. Scientific Opinion on the safety and efficacy of Liderfeed® (eugenol) for chickens for fattening. EFSA J 13:4273.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and I. Halle. 2015. Safety and efficacy of 036 10 (*Bacillus subtilis* DSM 27273) as a feed additive for weaned piglets and minor porcine species. EFSA J 13:4269.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, N. Dierick, M.A. Gralak, C. Hogstrand, L. Leng, and J. Westendorf. 2015. Scientific Opinion on the safety and efficacy of zinc chelate of L-lysinate-HCl as feed additive for all animal species. EFSA J 13:4267.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F.

Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, A.-K. Lundebye, D. Renshaw, and J. Westendorf. 2015. Safety of Allura Red AC in feed for cats and dogs. EFSA J 13:4270.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, N. Dierick, M.A. Gralak, C. Hogstrand, L. Leng, and J. Westendorf. 2015. Scientific Opinion on the safety and efficacy of selenium compounds (E8) as feed additives for all animal species: sodium selenite (coated granulated preparation), based on a dossier submitted by Doxal Italia S.p.A. EFSA J 13:4271.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, P. Brantom, B. Dusemund, C. Hogstrand, A.-K. Lundebye, R. Luttkik, D. Renshaw, P. van Beelen, and J. Westendorf. 2015. Safety and efficacy of saturated and unsaturated aliphatic secondary alcohols, ketones and esters with esters containing secondary alcohols belonging to chemical group 5 when used as flavourings for all animal species. EFSA J 13:4268.

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP), G. Aquilina, V. Bampidis, M. de Lourdes Bastos, G. Bories, A. Chesson, P.S. Cocconcelli, M.L. Fernández-Cruz, G. Flachowsky, J. Gropp, B. Kolar, M. Kouba, S.L. Puente, M. López-Alonso, A. Mantovani, B. Mayo, F. Ramos, G. Rychen, M. Saarela, R.E. Villa, R.J. Wallace, J. Wester, and N. Dierick. 2015. Safety and efficacy of lactic acid and calcium lactate when used as technological additives for all animal species. EFSA J 13:4198.

EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, S. Zientara, Y. Gottlieb, S. Gubbins, E. Klement, A. Stegeman, E. Tuppurainen, A. Broglia, M. Calzolari, J. Cortinhas, A. Gogin, J. Jaskiewicz, and A. Zuliani. 2015. Scientific Opinion on lumpy skin disease. EFSA J 13:3986.

EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, S. Zientara, M. Baron, A. De Koeijer, A. Ertürk, S. Gubbins, R. Lancelot, A. Stegeman, A. Broglia, J. Cortinas, A. Gogin, and A. Zuliani. 2015. Scientific Opinion on peste des petits ruminants. EFSA J 13:3985.

EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, H.M. Anil, and R. Leuschner. 2015. Scientific Opinion on the scientific assessment of studies on electrical parameters for stunning of small ruminants (ovine and caprine species). EFSA J 13:4023.

EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, M. Petracci, and R. Leuschner. 2015. Scientific Opinion on the assessment of studies on the use of carbon dioxide for stunning rabbits. EFSA J 13:4022.

EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, S. Zientara, G. Baneth, P. Bourdeau, L. Gradoni, L. Solano-Gallego, E. Authie, J.C. Abrahantes, M. Calzolari, S. Dhollander, and A. Zuliani. 2015. Scientific Opinion on canine leishmaniosis. EFSA J 13:4075.

- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, C. Ducrot, C. Winckler, G. Stilwell, L. Csiszter, A. Zuliani, D. Candiani, J.C. Abrahantes, L. Pasinato, J. Richardson, and M. Watts. 2015. Scientific Opinion on the assessment of dairy cow welfare in small-scale farming systems. *EFSA J* 13:4137.
- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, C. Garcia, R. Lee, S. Mortensen, F. Pernet, A. Roque, A. Thebault, P. Have, and F. Verdonck. 2015. Oyster mortality. *EFSA J* 13:4122.
- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg, C. Ducrot, I. Estevez, V. Michel, C. Nicol, L. Schrader, J.L.P. Villegas, P. Guillou, A. Joret, K. Niebuhr, L. Keeling, V. Ferrante, R. Boomstra, G. Maltoni, D. Candiani, O. Mosbach-Schulz, and G. Zancanaro. 2015. Scientific Opinion on welfare aspects of the use of perches for laying hens. *EFSA J* 13:4131.
- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg. 2015. African swine fever. *EFSA J* 13:4163.
- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg. 2015. Update on oral vaccination of foxes and raccoon dogs against rabies. *EFSA J* 13:4164.
- EFSA Panel on Animal Health and Welfare (AHAW), C. Berg, A. Bøtner, H. Browman, A. De Koeijer, K. Depner, M. Domingo, C. Ducrot, S. Edwards, C. Fourichon, F. Koenen, S. More, M. Raj, L. Sihvonen, H. Spoolder, J.A. Stegeman, H.-H. Thulke, I. Vagsholm, A. Velarde, P. Willeberg. 2015. Enzootic bovine leukosis. *EFSA J* 13:4188.
- EFSA Panel on Animal Health and Welfare (AHAW), A. Butterworth, A. Bøtner, A. Velarde, B. Garin-Bastuji, C. Gortazar Schmidt, C. Winckler, D. Bicout, H.-H. Thulke, H. Spoolder, J.A. Stegeman, K. Depner, L. Sihvonen, M. Good, M.A. Miranda, M. Raj, P. Calistri, P. Willeberg, S. Edwards, S. More, S.S. Nielsen, and V. Michel. 2015. *Echinococcus multilocularis* infection in animals. *EFSA J* 13:4373.
- EFSA Panel on Animal Health and Welfare (AHAW), D. Bicout, A. Bøtner, P. Calistri, A. Butterworth, K. Depner, B. Garin-Bastuji, M. Good, M.A. Miranda, M. Raj, C. Gortazar Schmidt, H.-H. Thulke, L. Sihvonen, H. Spoolder, J.A. Stegeman, A. Velarde, and C. Winckler. 2015. Survival, spread and establishment of the small hive beetle (*Aethina tumida*). *EFSA J* 13:4328.
- Feßler, A.T., and S. Schwarz. 2015. Ausbreitung antimikrobieller Resistenzen bei Bakterien von Tieren. *Amtstierärztl Dienst Lebensm* 22(1):62-67.
- Flachowsky, G. 2015. Impact of genetically modified plants as feed on animal health and productivity. Feedipedia - Animal Feed Resources Information System (<http://www.feedipedia.org/content/impact-genetically-modified-plants-feed-animal-health-and-productivity>)
- Flachowsky, G., and J. Klüss. 2015. Insekten als Futtermittel? *REKASAN-Journal* 22(43/44):55-57.
- Flachowsky, G., and U. Meyer. 2015. Zum Flächenbedarf für die Erzeugung von essbarem Eiweiß tierischer Herkunft. *REKASAN-Journal* 22(43/44):58-60.
- Flachowsky, G., and M. Rodehutschord. 2015. Neue Versorgungsempfehlungen für Pferde veröffentlicht. *REKASAN-Journal* 22(43/44):53-54.

**Flachowsky, G., D. von Soosten, and U. Meyer.** 2015. Climate relevant emissions from animal production and reduction potentials. *Animal Review* **2(2)**:19-57.

**Harder, T., and M. Beer.** 2015. Impfungen gegen Influenza - ein Wettlauf zwischen Hase und Igel? *In: Abstracts des Frühjahrssymposiums der Akademie für Tiergesundheit* (19.-20. Februar 2015, Schloss Montabaur) „Moderne Impfstrategien und Immunmodulation in der Nutztiermedizin“. Berl Münch Tierärztl Wschr **128**:483-494.

**Henning, K., A. Hilbert, and U. Wittstatt.** 2015. Serologische Untersuchung zur Verbreitung des Q-Fiebers beim Wildschwein im Land Berlin. *Tierärztl Umschau* **70**:41-42.

**Herzig, M., C. Staubach, R. Mattis, F.J. Conraths, J. Knapp, and B. Gottstein.** 2015. Molekulare Typisierung von *Echinococcus-multilocularis*-Isolaten aus Deutschland. *KompaktVET* 5/2015:2-3.

**Hoßfeld, U., and G.S. Levit.** 2015. Jacob Fidelis Ackermann (1765-1815). (S)Eine kurze Schaffensperiode zwischen Anatomie und Veterinärmedizin an der Universität Jena. *Dt Tierärztebl* **10/2015**:1420-1423.

**Hoßfeld, U., and G.S. Levit.** 2015. Goethes „comparierte Anatomie“. Die entscheidende Grundlage für die Begründung der Jenaer theoretischen Morphologie, Medizin und Veterinärmedizin. *Dt Tierärztebl* **12/2015**:1729-1733.

**Ibrahim, V., A. Schielke, I. Czogiel, M. Faber, C. Schrader, P. Dremsek, R.G. Ulrich, and R. Johne.** 2015. Hepatitis-E-Virus bei Wildschweinen und Jägern in einem Landkreis in Hessen. *Amtstierärztl Dienst Lebensm* **22(4)**:242-247.

**Kameke, D., H. Kampen, and D. Werner.** 2015. Schmallenberg virus in Germany 2011-2014. *KompaktVET* 5/2015:3.

**Koch, C., and P. Reinhold.** 2015. Gesunde Lungen für gesunde Kälber und leistungsfähige Milchkühe! *Milchpraxis* **2/2015**:20-25.

**Koch, C., and P. Reinhold.** 2015. Gesunde Lungen für gesunde Kälber und Milchkühe - Respiratorische Erkrankungen führen zu erheblichen Leistungsbeeinträchtigungen. *Landpost* **42-43/2015**:10-12.

**Liermann, W., A. Berk, and S. Dänicke.** 2015. Untersuchungen zur kombinierten Erfassung der Mastleistung und der Rohnährstoffverdaulichkeit von Mastschweinen. *In: Verband der Landwirtschaftskammern (Hrsg.), 10. Forum angewandte Forschung in der Rinder- und Schweinehaltung vom 14. bis 15.04.2015, Fulda, S. 161-164.*

**Maksimov, P., S. Press, M. Herzig, A. Fröhlich, G. Schares, and F.J. Conraths.** 2015. Nachweis von *Echinococcus multilocularis*-Eiern in Fuchskot. *KompaktVET* 5/2015:6-7.

**March, S., J. Brinkmann, A. Schwalm, C. Leeb, S. Dippel, F. Weißmann, and C. Winckler.** 2015. Erste Ergebnisse einer Untersuchung zu Lahmheiten bei ökologisch gehaltenen Zuchtsauen in Stallhaltung mit Auslauf. *In: Häring, A.M., B. Hörning, R. Hoffmann-Bahnsen, H. Luley, V. Luthardt, J. Pape, and G. Trei (eds.), Am Mut hängt der Erfolg: Rückblicke und Ausblicke auf die ökologische Landbewirtschaftung, Beiträge zur 13. Wissenschaftstagung Ökologischer Landbau, Eberswalde, 17.-20. März 2015, S. 474-477.*

**Menge, C.** 2015. Antibakterielle Impfstoffe für Wiederkäuer - Funktionen und Optionen. *In: Abstracts des Frühjahrssymposiums der Akademie für Tiergesundheit* (19.-20. Februar 2015, Schloss Montabaur) „Moderne Impfstrategien und Immunmodulation in der Nutztiermedizin“. Berl Münch Tierärztl Wschr **128**:483-494.

**Menge, C., H. Köhler, I. Moser, E. Werner, and H. Gyra.** 2015. Tuberkulose des Rindes - Empfehlung zur Tuberkulin-Injektionsstelle. *Amtstierärztl Dienst Lebensm* **22(2)**:125-127.



**Mettenleiter, T.C., and H.-J. Bätza.** 2015. Die Ständige Impfkommision Veterinärmedizin (StIKoVet). *In: Abstracts des Frühjahrssymposiums der Akademie für Tiergesundheit (19.-20. Februar 2015, Schloss Montabaur) „Moderne Impfstrategien und Immunmodulation in der Nutztiermedizin“.* Berl Münch Tierärztl Wschr **128**:483-494.

**Pannwitz, G., K. Albrecht, T. Homeier-Bachmann, D. Höreth-Böntgen, C. Staubach, C. Sauter-Louis, and F.J. Conraths.** 2015. Ausbruch von HPAIV H5N8 - Maßnahmen und epidemiologische Ermittlungen in einem Putenmastbestand in Mecklenburg-Vorpommern. *Amtstierärztl Dienst Lebensm* **22(1)**:41-51.

**Ruda, L., C. Raschka, K. Huber, S. Dänicke, P. Wenning, and J. Rehage.** 2015. Dynamik der subkutanen und abdominalen Fettdepots beim Milchrind im peripartalen Zeitraum und Beziehungen zu Markern der Fettmobilisation. *In: Füll, M. (Hrsg.), Zukunft gestalten: 40 Jahre Präventivmedizin,* Leipzig, S. 53-54.

**Sachse, K., K. Laroucau, and D. Vanrompay.** 2015. La chlamydie aviaire: nouvelles espèces et conséquences. *Revue Francophone des Laboratoires* **2015(472)**:59-65.

**von Soosten, D., K. Zimmer, U. Meyer, and S. Dänicke.** 2015. Untersuchungen zum Einsatz von Pressschnitzel- und Maissilage in Rationen mit unterschiedlichem Kraftfutteranteil auf Leistungsparameter und Pansen-pH-Wert bei Milchkühen. *In: Verband der Landwirtschaftskammern (Hrsg.), 10. Forum angewandte Forschung in der Rinder- und Schweinehaltung vom 14. bis 15.04.2015,* Fulda, S. 53-56.

**Stehle, E.** 2015. Untersuchungen zur Anpassungsfähigkeit von Legehennen - Geforscht wird im Verbund. *DGS Magazin* **23/2015**:8-9.

**Tomaso, H., T. Homeier-Bachmann, F.J. Conraths, and H. Neubauer.** 2015. Fragebogenauswertung zur Diagnostik der Tularämie. *Amtstierärztl Dienst Lebensm* **22(3)**:170-172.

**Wein, R., J. Winkler, U. Brezina, W. Richardt, and S. Dänicke.** 2015. Möglichkeiten und Grenzen der Analyse von Mykotoxinen in biologischen Substraten beim Schwein. *In: Füll, M. (Hrsg.), Zukunft gestalten: 40 Jahre Präventivmedizin,* Leipzig, S. 137-138.

**Zapf, R., U. Schultheiß, W. Achilles, L. Schrader, U. Knierim, H.-J. Herrmann, J. Brinkmann, and C. Winckler.** 2015. Indikatoren für die betriebliche Eigenkontrolle auf Tiergerechtigkeit - Beispiel Milchkühe. *Landtechnik* **70(6)**:221-230.

**Zerbe, F.** 2015. Kraftvoll durch die Mast. *dlz agrarmagazin* April 2015:108-111.

**Zielke, D.E., M. Schäfer, D. Werner, and H. Kampen.** 2015. Stechmücken-Monitoring und Überwachung Stechmücken-übertragener Pathogene in Deutschland. *KompaktVET* 5/2015:11.

## **Buchbeiträge**

**Beer, M.** 2015. DIVA (differentiating infected from vaccinated animals)- oder Marker-Diagnostik. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre,* Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 94-95.

**Beer, M., and L. Haas.** 2015. Direkter Erregernachweis bei Virusinfektionen. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre,* Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 75-90.

**Beer, M., L. Haas, M. König, M. Pfeffer, and H.-J. Thiel.** 2015. Einzelstrang-RNA-Viren. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre,* Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 508-620.

- Beer, M., and M. Pfeffer.** 2015. Doppelstrang-RNA-Viren. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre, Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 490-508.*
- Berk, J.** 2015. Technik in der Geflügelhaltung. *In: Frerichs, Ludger (Hrsg.): Jahrbuch Agrartechnik 2014, Braunschweig: Institut für mobile Maschinen und Nutzfahrzeuge, 2015, S. 201-209.*
- Dänicke, S. and G. Flachowsky.** 2015. Feeds. *In: Ullmann's Encyclopedia of Industrial Chemistry, Wiley-VHC, ISBN: 978-3-527-33754-5/978-3-527-30673-2.*
- Dänicke, S. and G. Flachowsky.** 2015. Futtermittel. *In: Fischer, M. and M.A. Glomb (Hrsg.), Moderne Lebensmittelchemie, Behr's Verlag, Hamburg, ISBN: 978-3-89947-864-8, 788 S., S. 713-727.*
- Diederich, S., A. Gedvilaite, A. Zvirbliene, A. Kazaks, K. Sasnauskas, N. Johnson, and R.G. Ulrich.** 2015. Virus-like particles: A versatile tools for basic and applied research on emerging and re-emerging viruses. *In: Y. Khudyakov, and P. Pumpens (eds.): Viral Nanotechnology, CRC Press, Boca Raton, FL, USA, ISBN (print): 978-1-4665-8352-8, ISBN (eBook): 978-1-4665-8353-5, 524 S, S. 137-160.*
- Flachowsky, G.** 2015. Carbon Footprints of Food of Animal Origin. *In: Malik, P.K., R. Bhatta, J. Takahashi, R.A. Kohn, and C.S. Prasad (eds.): Livestock Production and Climate Change, CAB International, Wallingford, UK, ISBN: 978-1-78064-432-5, S. 125-145.*
- Freuling, C.M., L.M. McElhinney, A.R. Fooks, and T.F. Müller.** 2015. Gel-Based Reverse Transcription-Polymerase Chain Reaction. *In: Rupprecht, C. and T. Nagarajan (eds.), Current Laboratory Techniques in Rabies Diagnosis, Research and Prevention, Vol. 2, Elsevier Academic Press, ISBN: 978-0-12-801919-1, S. 119-128.*
- Groschup, M.** 2015. Prionen. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre, Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 621-626.*
- Haas, L., and M. Beer.** 2015. Indirekter Erregernachweis. *In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre, Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 90-94.*
- Kadlec, K., S. Wendlandt, A.T. Feßler, and S. Schwarz.** 2015. Methods for the Detection of Antimicrobial Resistance and the Characterization of *Staphylococcus aureus* Isolates from Food-Producing Animals and Food of Animal Origin. *In: Chen, C.-Y., X. Yan, and C.R. Jackson (eds.), Antimicrobial Resistance and Food Safety - Methods and Techniques, Elsevier Academic Press, ISBN: 978-0-12-801214-7, S. 207-232.*
- Koppang, E.O., A. Kvellestad, and U. Fischer.** 2015. Fish mucosal immunity: gill. *In: Beck, B.H. and E. Peatman (eds.), Mucosal Health in Aquaculture, Elsevier Academic Press, ISBN: 978-0-12-417186-2, S. 93-133.*
- Maramorosch, K., and T.C. Mettenleiter (eds.).** 2015. Advances in Virus Research, Vol. 92, Academic Press Inc. Elsevier Science, San Diego, CA, USA, ISBN: 978-0-12-802180-4, 260 S.
- Müller, T., C.M. Freuling, C.E. Rupprecht, L. Both, A.R. Fooks, T. Lembo, L. Knopf, D.J. Briggs, and L.H. Taylor.** 2015. Elimination of Rabies - A Missed Opportunity. *In: Sting, A. (Hrsg.), Zoonoses - Infections Affecting Humans and Animals, Vol. III, Springer Netherlands, ISBN: 978-94-017-9457-2\_21, S. 527-571.*
- Neubauer, H.K.J., M.C. Elschner, L.D. Sprague, and U. Wernery.** 2015. Chapter 2.5.11. Glanders. *In: World Organisation for Animal Health (Ed.), Manual of diagnostic tests and vaccines for terrestrial animals 2015, OIE, Paris. p. 1-11.*

**Rakin, A., D. Garzetti, H. Bouabe, and L.D. Sprague.** 2015. Chapter 73 - *Yersinia enterocolitica*. In: Tang, Y.W., M. Sussman, D. Liu, I. Poxton, and J. Schwartzman (Hrsg.), *Molecular Medical Microbiology*, 2<sup>nd</sup> Edition, Vol. 2, Elsevier, ISBN: 978-0-12-397169-2, S. 1319-1344.

**Sachse, K., and P. Moebius.** 2015. Chapter 21 - Molecular Typing Tools: From Pattern Recognition to Genome-Based Algorithms. In: Cunha, M.V., and J. Inácio (Hrsg.), *Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies*, *Methods in Molecular Biology*, Vol. 1247, Springer Science+Business Media, New York, ISBN: 978-1-4949-2004-4\_21, S. 287-310.

**Sachse, K., and A. Ruetzger.** 2015. Chapter 28 - Rapid Microarray-Based Genotyping of *Chlamydia* spp. Strains from Clinical Tissue Samples. In: Cunha, M.V., and J. Inácio (Hrsg.), *Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies*, *Methods in Molecular Biology*, Vol. 1247, Springer Science+Business Media, New York, ISBN: 978-1-4949-2004-4\_28, S. 391-400.

**Schnee, C., and K. Sachse.** 2015. Chapter 15 - DNA Microarray-Based Detection of Multiple Pathogens: *Mycoplasma* spp. and *Chlamydia* spp. In: Cunha, M.V., and J. Inácio (Hrsg.), *Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies*, *Methods in Molecular Biology*, Vol. 1247, Springer Science+Business Media, New York, ISBN: 978-1-4949-2004-4\_15, S. 193-208.

**Tautz, N., B.A. Tews, and G. Meyers.** 2015. The Molecular Biology of Pestiviruses. In: Maramorosch, K., and T.C. Mettenleiter (eds.), *Advances in Virus Research*, Academic Press Inc. Elsevier Science, San Diego, CA, USA [Epub ahead of print]

**Truyen, U., M. Beer, and K. Osterrieder.** 2015. Doppelstrang-DNA-Viren. In: Selbitz, H.-J., U. Truyen, and P. Valentin-Weigand (Hrsg.): *Tiermedizinische Mikrobiologie, Infektions- und Seuchenlehre*, Enke Verlag, Stuttgart, ISBN: 978-3-8304-1263-2, 672 S., S. 405-458.

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

### Habilitationen

--

### Dissertationen

**Abass, Naglaa Abd El Hakeem (IfE):** An Epidemiologic Study of Canine Echinococcosis and Livestock Hydatidosis in the Sudan (Freie Universität Berlin)

**Bauer, Anja (IMVZ):** Identifizierung und Charakterisierung zellulärer Interakteure der Rabiesvirus Polymerase und des Hendravirus Matrixproteins (Ernst-Moritz-Arndt-Universität Greifswald)

**Bergmann, Annabel (ING):** Sperm binding properties to uterine epithelial cells in vitro employing a primary porcine endometrium culture system (Georg-August-Universität Göttingen)

**Böhm, Sebastian (IMVZ):** Structure based functional analyses of pseudorabies virus glycoprotein H (Ernst-Moritz-Arndt-Universität Greifswald)

**Brandl-Schwabe, Annett (ITE):** Einfluss von Seltenen Erden auf Gesundheit und Leistung von Wiederkäuern und Carry over Seltener Erden in essbare Gewebe und Knochen (Martin-Luther-Universität Halle-Wittenberg)

**Hamm, Katharina Maria Theresia (IMP):** Experimentelle Infektion von Kälbern mit *Escherichia coli* O104:H4 (Justus-Liebig-Universität Gießen)

**Hechinger, Silke (IVD):** Development and efficacy testing of inactivated vaccines against Schmallenberg virus infection in cattle and sheep (Ludwig-Maximilians-Universität München)

**Henning, Ann-Kristin (IMVZ):** Anwendungen der qualitativen und quantitativen shotgun MALDI-TOF/TOF Massenspektrometrie im Rahmen der Tiergesundheit: Proteomanalyse des Rinderplasmas und Untersuchungen zu Virus-Wirt-Interaktionen (Ernst-Moritz-Arndt-Universität Greifswald)

**Huong, Dang Thi (IfI):** Functional and molecular characterization of T cells and Natural killer (NK) cells in rainbow trout (*Oncorhynchus mykiss*) (Ernst-Moritz-Arndt-Universität Greifswald)

**Jäckel, Susanne (INNT):** Development of novel diagnostic assays for the detection and surveillance of Rift Valley fever virus infections in ruminants and camels (Tierärztliche Hochschule Hannover)

**Kägebein, Danny (IfI):** Untersuchungen zur MHC Klasse I-vermittelten Präsentation chlamydialer Peptidantigene in Dendritischen Zellen (Ernst-Moritz-Arndt-Universität Greifswald)

**Kamp, Annegret (IfI):** Untersuchungen zur Lokalisation und molekularen Interaktion von CEACAM16, einem hochkonservierten Mitglied der CEA-Familie (Ludwig-Maximilians-Universität München)

**Kirchner, Jasmin (ITT):** Practical application of a call feeding station in gestating sows considering agonistic interactions, lesions and learning abilities in group housed sows (Martin-Luther-Universität Halle-Wittenberg)

**Krautz, Karoline (IfI):** Neuropathologische Langzeitveränderungen im Gehirn von Lewis-Ratten nach neonataler Aerosol-Infektion mit dem Borna-Disease-Virus (Justus-Liebig-Universität Gießen)

**Kreibich, Anne (IMVZ):** Untersuchungen zum Reassortment von aviären und humanen Influenza-A-Viren des Subtyps H3 unter Verwendung der Reversen Genetik (Ernst-Moritz-Arndt-Universität Greifswald)

**Lieboldt, Marc-Alexander (ITE):** Effects of L-arginine on metabolism and immune response in layer-type chickens of different genetic backgrounds under physiological and pathophysiological conditions (Tierärztliche Hochschule Hannover)

**Mancini, Roberto (ING):** Detection of Y-chromosome bearing bovine sperm using laser-generated gold nanoparticle bio-conjugates (Tierärztliche Hochschule Hannover)

**Michael, Geovana Brenner (ING):** Molecular analysis of a multi-resistant bovine *Pasteurella multocida* strain from the U.S.A. (Tierärztliche Hochschule Hannover)

**Osman Elhag, Nussieba Ahmed (INNT, IMVZ):** Expression studies of peste des petits ruminants virus (PPRV) haemagglutinin and fusion envelope glycoproteins (Tierärztliche Hochschule Hannover)

**Paßvogel, Katharina (IMVZ):** Generierung und Evaluierung rekombinanter Pseudorabies Virus basierter Vektor-Vakzine zur Immunisierung von Schweinen gegen das pandemische H1N1 Influenzavirus von 2009 (Ernst-Moritz-Arndt-Universität Greifswald)

**Paßvogel, Lars (IMVZ):** Analyse funktioneller Domänen in den Kernfreisetzungskomplexproteinen pUL31 und pUL34 des Pseudorabies Virus (Ernst-Moritz-Arndt-Universität Greifswald)

**Petrov, Anja (IVD):** Design and validation of optimized tools for Classical and African swine fever surveillance and pathogenesis research (Ludwig-Maximilians-Universität München)

**Pietschmann, Jana (IVD):** Afrikanische Schweinepest - Charakterisierung aktueller Isolate sowie Entwicklung und Testung praxistauglicher Überwachungsoptionen (Ludwig-Maximilians-Universität München)

**Querengässer, Friederike (IfE):** Potentielle Risikofaktoren für das Auftreten der Infektion mit dem Schmallenberg-Virus in deutschen Rinder- und Schafbetrieben (Freie Universität Berlin)

**Richter, Maria (IVD):** Molekularbiologische Charakterisierung des „Bungowannah-Virus“, eines außergewöhnlichen Mitgliedes des Genus Pestivirus (Ernst-Moritz-Arndt-Universität Greifswald)

**Schäfer, Mandy (IMED):** A survey of the German mosquito fauna (Diptera: Culicidae) and identification of associated pathogens (Rheinische Friedrich-Wilhelms-Universität Bonn)

**Scheuch, Matthias (IVD):** Metagenomanalyse von Sequenzdaten aus diagnostischen Proben zur Erregeridentifikation (Ernst-Moritz-Arndt-Universität Greifswald)

**Schinköthe, Jan (IMP):** Experimental oral infection of goats with *Mycobacterium avium* subsp. *hominissuis*: Pathomorphological characterization of lesions in different courses of disease with special focus on cellular composition of granulomas (Tierärztliche Hochschule Hannover)

**Schlosser, Josephine (INNT):** Transmission and pathogenesis of hepatitis E virus infection in European wild boar and domestic pigs, and the establishment of a small animal model for hepatitis E (Tierärztliche Hochschule Hannover)

**Schürmann, Katharina Helene Christine (ING):** Entwicklung eines phosphatfreien Verdünners zur Verbesserung der Qualität von Hengstsamen (Tierärztliche Hochschule Hannover)

**Sheikh Ali, Hanan (INNT):** Molecular evolution of the bank vole-borne Puumala hantavirus in Central Europe (Tierärztliche Hochschule Hannover)

**Stelter, Katrin (ITE):** *Origanum vulgare* L. and *Tropaeolum majus* L. in feeding of young pigs - Effects on health and performance (Martin-Luther-Universität Halle-Wittenberg)

**Tiedemann, Daniela (ING):** Interaction of engineered metal nanoparticles and porcine gametes (Tierärztliche Hochschule Hannover)

**Wareth, Gamal Abdelaziz Mohamed (IBIZ):** Molecular Epidemiology of Brucellosis in Egypt, Diagnostic Procedures, Proteomics and Pathogenesis Studies (Freie Universität Berlin)

**Wendlandt, Sarah (ING):** Grampositive Kokken von Tieren als Träger neuer und selten nachgewiesener antimikrobieller Resistenzgene (Tierärztliche Hochschule Hannover)

**Winkler, Janine (ITE):** Development of analytical methods for the simultaneous determination of the Fusarium toxins zearalenone, deoxynivalenol and their metabolites in physiological samples of dairy cows and verification through a dose-response feeding study (Technische Universität Braunschweig)

## PhD Theses

**Ahrens, Hellen Elisa (ING):** Experimental approaches towards overcoming the acute vascular rejection associated with pig-to-primate xenotransplantation (Medizinische Hochschule Hannover)

**Joekel, Deborah Elisabeth (IfE):** Rekombinante Antigene als Vakzinekandidaten gegen den Rinderlungenwurm *Dictyoaulus viviparus* - in vitro Untersuchungen und Immunisierungsversuche (Tierärztliche Hochschule Hannover)

**Rerkyusuke, Sarinya (IMP):** Investigations on the intravital diagnoses of Paratuberculosis in Goats (Tierärztliche Hochschule Hannover)

## Diplomarbeiten

--

## Masterarbeiten

**Belka, Ariane (IVD):** Untersuchungen zur taxonomischen Klassifizierung von Nukleotidsequenzen auf der Basis elementarer Sequenzinformation (Ernst-Moritz-Arndt-Universität Greifswald)

**Dalman, Anja (IMVZ):** Klonierung und Expression von Orthobunyavirus-Sequenzen zur Etablierung reverser genetischer Systeme und Analyse molekularer Virus-Wirt-Interaktionen (Ernst-Moritz-Arndt-Universität Greifswald)

**Dih, Mbaringong Maxine (ING):** Toxicity of gold nanoparticles on in vitro fertilization in pigs (Christian-Albrechts-Universität Kiel)

**Forth, Jan Hendrik (Leitung):** Standardisierung eines nicht-invasiven Beprobungssystems zur Infektionsüberwachung bei Wildschweinen (*Sus scrofa*) (Ernst-Moritz-Arndt-Universität Greifswald)

**Gödde, Jens (ITE):** Überprüfung der Empfehlungen für kritische Konzentrationen von Deoxynivalenol und Zearalenon im Futter von Mastbullen (Hochschule Osnabrück)

**Goering-Habenicht, Susanne (ITE):** Untersuchungen zum Einfluss der Intensität des Einsatzes von Milchaustauschern bei Kälbern auf ausgesuchte Leistungs- und Effizienzparameter dieser Tiere als Milchkühe (Georg-August-Universität Göttingen)

**Günther, Maria (IMVZ):** Einfluss von viralen Matrixproteinen auf die Funktionen des aciden nukleären Phosphoproteins ANP32B (Ernst-Moritz-Arndt-Universität Greifswald)

**Jostmeier, Sandra (ITE):** Untersuchung zum Vergleich der T-Aufnahme und Leistung von Kühen der Rasse Deutsche Holstein bei TMR- und weidebasierter Fütterung unter besonderer Berücksichtigung der Umstellung auf die Weidefütterung (Georg-August-Universität Göttingen)

**Judel, Andreas (IMVZ):** Expression von Synzytien induzierender Proteine des neuartigen Fisch-Paramyxovirus DF20/00 und Definition fusionsaktiver Domänen (Ernst-Moritz-Arndt-Universität Greifswald)

**Mühlenbeck, Larissa Helen (IMVZ):** Cloning and Characterization of a Low Pathogenic H7N7 Avian Influenza Virus with an Artificial Multibasic Cleavage Site (Rheinische Friedrich-Wilhelms-Universität Bonn)

**Röttinger, Irene (ING):** Analyse der OCT4-Expression im Oct4-EGFP-transgenen Schweinemodell (Tierärztliche Hochschule Hannover)

**Ruesink, Stefanie (ITE):** Vergleich der Stickstoffnutzung von Milchkühen der Rasse Deutsche Holstein bei TMR- und weidebasierter Fütterung (Georg-August-Universität Göttingen)

**Schneider, Julia (INNT):** Geographische Verbreitung und phylogenetische Analyse des Rötelmaus-Hepacivirus (Ernst-Moritz-Arndt-Universität Greifswald)

## Bachelorarbeiten

**Dittrich, Anne (IMVZ):** Generierung und Charakterisierung eines aviären Influenzavirus vom Subtyp H7N7 (Ernst-Moritz-Arndt-Universität Greifswald)

**Ehmann, Julia (IMP):** Aktivierung von CD8 $\alpha$ -charakterisierten  $\gamma\delta$ -T-Zellpopulationen nach Stimulation mit verschiedenen Bakterien und bakteriellen Produkten (Hochschule Jena)

**Erler, Theresa (IMP):** Konstruktion einer Promotorbibliothek für *Coxiella burnetii* und ihre Analyse in *Escherichia coli* (Hochschule Jena)

**Gläser, Julia (IMP):** Antigen-induzierte Genexpression von Interleukin-18 durch PBMC im Verlauf einer experimentellen Infektion von Ziegen mit *Mycobacterium avium* ssp. *paratuberculosis* (Hochschule Jena)

**Hackmann, Carolin (IMVZ):** Klonierung und Charakterisierung von Rabies Virus Glykoprotein-Mutanten mit Defekten in der p75NTR-Rezeptor-Bindung (Ernst-Moritz-Arndt-Universität Greifswald)

**John, Lisa-Marie (IMP):** Etablierung des siRNA-induzierten knockdown von iNOS in primären bovinen Makrophagen (Hochschule Jena)

**Rehwaldt, Sascha (IMVZ):** Untersuchung der Funktionen des Pseudorabies Virus Hüll-Glykoproteins H mittels gezielter Mutagenese (Ernst-Moritz-Arndt-Universität Greifswald)

**Speit, Jan-Helge (ITE):** Einfluss einer totalen Mischration- (TMR) oder weidebasierten Fütterung auf die mikrobielle Proteinsynthese im Pansen bei Milchkühen (Hochschule Osnabrück)

**Sydow, Diana (IMVZ):** Charakterisierung funktioneller Bereiche in der pUL31 Komponente des NEC (Ernst-Moritz-Arndt-Universität Greifswald)

**Terhalle, Maria (ING):** Steuerung der natürlichen Geschlechtsdifferenzierung und deren Übertragung auf landwirtschaftliche Nutztiere (Hochschule Osnabrück)

**Wittmann, Nico (IMVZ):** Aktivierung p75-NTR-abhängiger Signalkaskaden durch das Rabies Virus (Ernst-Moritz-Arndt-Universität Greifswald)