



# Publikationen des FLI 2022

## Inhaltsverzeichnis

Veröffentlichungen in referierten Zeitschriften .....	2
Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings .....	30
Buchbeiträge .....	32
Habilitationen, Dissertationen, PhD Theses, Diplom-, Master- und Bachelorarbeiten .....	33
Habilitationen .....	33
Dissertationen .....	33
PhD Theses .....	34
Diplomarbeiten .....	34
Masterarbeiten .....	34
Bachelorarbeiten .....	35

Bearbeitung: Anette Beidler  
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## Veröffentlichungen in referierten Zeitschriften

Aaziz, R., K. Laroucau, F. Gobbo, D. Salvatore, C. Schnee, C. Terregino, C. Lupini, and A. Di Francesco. 2022. Occurrence of Chlamydiae in Corvids in Northeast Italy. *Animals* 12:1226.

Abdel-Glil, M.Y., P. Thomas, C. Brandt, F. Melzer, A. Subbaiyan, P. Chaudhuri, D. Harmsen, K.A. Jolley, A. Janowicz, G. Garofolo, H. Neubauer, and M.W. Pletz. 2022. Core Genome Multilocus Sequence Typing Scheme for Improved Characterization and Epidemiological Surveillance of Pathogenic *Brucella*. *J Clin Microbiol* 60:e0031122.

Abkallo, H.M., J.D. Hemmink, B. Oduor, E.M. Khazalwa, N. Svitek, N. Assad-Garcia, J. Khayumbi, W. Fuchs, S. Vashee, and L. Steinaa. 2022. Co-Deletion of A238L and EP402R Genes from a Genotype IX African Swine Fever Virus Results in Partial Attenuation and Protection in Swine. *Viruses* 14:2024.

Abo Shama, N.M., S.H. Mahmoud, O. Bagato, E.T. AbdElsalam, M. Alkhazindar, A. Kandeil, P.P. McKenzie, R.J. Webby, M.A. Ali, G. Kayali, and R. El-Shesheny. 2022. Incidence and neutralizing antibody seroprevalence of influenza B virus in Egypt: Results of a community-based cohort study. *PLoS one* 17:e0269321.

Acosta, A., N. Cespedes Cardenas, C. Imbacuan, H.H.K. Lentz, K. Dietze, M. Amaku, A. Burbano, V.S.P. Gonçalves, and F. Ferreira. 2022. Modelling control strategies against Classical Swine Fever: influence of traders and markets using static and temporal networks in Ecuador. *Prev Vet Med* 205:105683.

Adamek, M., M. Heling, J. Bauer, F. Teitge, S.M. Bergmann, D.W. Kleingeld, A. Welzel, N. Scuda, J. Bachmann, C. Sauter-Louis, K. Böttcher, G. Bräuer, D. Steinhagen, and V. Jung-Schroers. 2022. It is everywhere - a survey on the presence of carp edema virus in carp populations in Germany. *Transbound Emerg Dis* 69:2227-2241.

Adamek, M., M. Matras, A. Rebl, M. Stachnik, A. Falco, J. Bauer, A.-C. Miebach, F. Teitge, V. Jung-Schroers, M. Abdullah, T. Krebs, L. Schröder, W. Fuchs, M. Reichert, and D. Steinhagen. 2022. Don't Let It Get Under Your Skin! - Vaccination Protects the Skin Barrier of Common Carp From Disruption Caused by Cyprinid Herpesvirus 3. *Front Immunol* 13:787021.

Adler, J.M., C. Weber, K. Wernike, A. Michelitsch, K. Friedrich, J. Trimpert, M. Beer, B. Kohn, K. Osterrieder, and E. Müller. 2022. Prevalence of anti-severe acute respiratory syndrome coronavirus 2 antibodies in cats in Germany and other European countries in the early phase of the coronavirus disease-19 pandemic. *Zoonoses Publ Health* 69:439-450.

Agerholm, J.S., and K. Wernike. 2022. Occurrence of malformed calves in April - May 2021 indicates an unnoticed 2020 emergence of Schmallenberg virus in Denmark. *Transbound Emerg Dis* 69:3128-3132.

Agusi, E.R., V. Allendorf, E.A. Eze, O. Asala, I. Shittu, K. Dietze, F. Busch, A. Globig, and C.A. Meseko. 2022. SARS-CoV-2 at the Human-Animal Interface: Implication for Global Public Health from an African Perspective. *Viruses* 14:2473.

Ahrens, A.K., H.-C. Selinka, T.C. Mettenleiter, M. Beer, and T.C. Harder. 2022. Establishment and evaluation of qPCR and real-time recombinase-aided amplification assays for detection of largemouth bass ranavirus. *Emerg Microbes Infect* 11:1250-1261.

Aira, C., M. Penning, M. Eiden, A. Balkema-Buschmann, S. Blome, K. Strutzberg-Minder, L. López, P. Rueda, and P. Sastre. 2022. A multiplex assay for the detection of antibodies to relevant swine pathogens in serum. *Transbound Emerg Dis* 69:2173-2181.

Ajoseh, S.O., K.O. Akinyemi, R.O. Abegunrin, H. Neubauer, and G. Wareth. 2022. *Acinetobacter baumannii* from the one health perspective in Nigeria: A systematic review of literature in the last decade (2011-2021). *German J Microbiol* 2(3):12-23.

- Akanbi, O.B., J.P. Teifke, A.J. Adedeji, K. Franzke, C.A. Meseko, O.B. Daodu, and H.O. Jegede.** 2022. Comparative Pathologic, Immunohistochemical, Ultrastructural and Molecular study of Bovine Papilloma Virus type 1 E5 Oncogene infection in Exotic and Indigenous cattle breeds. *Media Kedokteran Hewan* 33(2):72-86.
- Akar, K., F. Tatar, G. Schmoock, G. Wareth, H. Neubauer, and O. Erganiş.** 2022. Tracking the diversity and Mediterranean lineage of *Brucella melitensis* isolates from different animal species in Turkey using MLVA-16 genotyping. *Ger J Vet Res* 2:25-30.
- Akinyemi, K.O., C.O. Fakorede, K.O. Amisu, and G. Wareth.** 2022. Human and Animal Brucellosis in Nigeria: A Systemic Review and Meta-Analysis in the Last Twenty-One Years (2001-2021). *Vet Sci* 9:384.
- Al-Gallas, N., K. Belghouthi, N.A. Barratt, K. Ghedira, H. Hotzel, H. Tomaso, H. El-Adawy, H. Neubauer, D. Laouini, S. Zarrouk, M.S. Abbassi, and R. Ben Aissa.** 2022. Identification and characterization of multidrug-resistant ESBL-producing *Salmonella enterica* serovars Kentucky and Typhimurium isolated in Tunisia CTX-M-61/TEM-34, a novel cefotaxime-hydrolyzing  $\beta$ -lactamase of *Salmonella*. *J Appl Microbiol* 132:279-289.
- Aleith, J., M. Brendel, E. Weipert, M. Müller, D. Schultz, Ko-Infekt Study Group<sup>1</sup>, and B. Müller-Hilke.** 2022. Influenza A Virus Exacerbates Group A Streptococcus Infection and Thwarts Anti-Bacterial Inflammatory Responses in Murine Macrophages. *Pathogens* 11:1320.
- Ali, I., A. Rehman, M.H. Mushtaq, M. Ijaz, M.S. Khaliq, M.S.U. Khan, S. Khalid, A. Masud, A. Abbas, S. Parveen, A. Saman, C. Sauter-Louis, and F.J. Conraths.** 2022. Outbreak investigation and identification of risk factors associated with the occurrence of foot and mouth disease in Punjab, Pakistan. *Prev Vet Med* 202:105613.
- Ali, S., U. Saeed, M. Rizwan, H. El-Adawy, K. Mertens-Scholz, and H. Neubauer.** 2022. Serological Prevalence of and Risk Factors for *Coxiella burnetii* Infection in Women of Punjab Province, Pakistan. *Int J Environ Res Public Health* 19:4576.
- Allendorf, V., N. Denzin, F.J. Conraths, L.A. Boden, F. Elvinger, I. Magouras, A. Stegeman, J.L.N. Wood, A. Carvajal Urueña, K.E.F. Grace, and K.D.C. Stärk.** 2022. Does having a cat in your house increase your risk of catching COVID-19? *One Health* 14:100381.
- Altgilbers, S., C. Dierks, S. Klein, S. Weigend, and W.A. Kues.** 2022. Quantitative analysis of CRISPR/Cas9-mediated provirus deletion in blue egg layer chicken PGCs by digital PCR. *Sci Rep* 12:15587.
- Amin, F., S. Ali, A. Javid, M. Imran, M.I. Rashid, K. Mertens-Scholz, and H. Neubauer.** 2022. Sero-Epidemiology of *Coxiella burnetii* Infection in Small Ruminants in the Eastern Region of Punjab, Pakistan. *Pathogens* 11:664.
- Annaheim, D., B.R. Vogler, B. Sigrist, A. Vögtlin, D. Hüsey, C. Breitler, S. Hartnack, C. Grund, J. King, N. Wolfrum, and S. Albin.** 2022. Screening of Healthy Feral Pigeons (*Columba livia domestica*) in the City of Zurich Reveals Continuous Circulation of Pigeon Paramyxovirus-1 and a Serious Threat of Transmission to Domestic Poultry. *Microorganisms* 10:1656.
- Badawy, B., M. Elafify, A.M.M. Farag, S.M. Moustafa, M.Z. Sayed-Ahmed, A.A. Moawad, A.M. Algammal, H. Ramadan, and M. Eltholth.** 2022. Ecological Distribution of Virulent Multidrug-Resistant *Staphylococcus aureus* in Livestock, Environment, and Dairy Products. *Antibiotics* 11:1651.
- Balkema-Buschmann, A., K. Fischer, L. McNabb, S. Diederich, N.B. Singanallur, U. Ziegler, G.M. Keil, P.D. Kirkland, M. Penning, B. Sadeghi, G. Marsh, J. Barr, and A. Colling.** 2022. Serological

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<sup>1</sup> FLI Members Ko-Infekt Study Group: Blohm, U.; Schäfer, A.

Hendra Virus Diagnostics Using an Indirect ELISA-Based DIVA Approach with Recombinant Hendra G and N Proteins. *Microorganisms* **10**:1095.

Bartels, T., M. von Ryssel, K. Cramer, M. Dayen, N. Kummerfeld, F. Müller-Trefzer, K. Pieper, A. Sobing, D. Tischbirek, and M.-E. Krautwald-Junghanns. 2022. Bird markets - An assessment of the situation in Germany with special reference to animal welfare aspects. *Berl Münch Tierärztl Wschr* **135**, doi:10.2376/1439-0299-2021-17.

Barut, T., N.J. Halwe, A. Taddeo, J.N. Kelly, J. Schön, N. Ebert, L. Ulrich, C. Devisme, S. Steiner, B.S. Trüeb, B. Hoffmann, I. Berenguer Veiga, N.G.F. Leborgne, E.A. Moreira, A. Breithaupt, C. Wylezich, D. Höper, K. Wernike, A. Godel, L. Thomann, V. Flück, H. Stalder, M. Brügger, B.I. Oliveira Esteves, B. Zumkehr, G. Beilleau, A. Kratzel, K. Schmied, S. Ochsenbein, R.M. Lang, M. Wider, C. Machahua, P. Dorn, T.M. Marti, M. Funke-Chambour, A. Rauch, M. Widera, S. Ciesek, R. Dijkman, D. Hoffmann, M.P. Alves, C. Benarafa, M. Beer, and V. Thiel. 2022. The spike gene is a major determinant for the SARS-CoV-2 Omicron-BA.1 phenotype. *Nat Commun* **13**:5929.

Basso, W., F. Holenweger, G. Schares, N. Müller, L.M. Campero, F. Ardüser, G. Moore-Jones, C.F. Frey, and P. Zanolari. 2022. *Toxoplasma gondii* and *Neospora caninum* infections in sheep and goats in Switzerland: Seroprevalence and occurrence in aborted fetuses. *Food Waterborne Parasitol* **28**:e00176.

Bauermann, F.V., K. Wernike, M.N. Weber, and S. Silveira. 2022. Editorial: Pestivirus: Epidemiology, Evolution, Biology and Clinical Features. *Front Vet Sci* **9**:1025314.

Baylis, S.A., C. Adlhoch, L. Childs, and the HEV Sequencing Study Group<sup>2</sup>. 2022. An Evaluation of Hepatitis E Virus Molecular Typing Methods. *Clin Chem* **68**:181-191.

Beer, J., S. Crotta, A. Breithaupt, A. Ohnemus, J. Becker, B. Sachs, L. Kern, M. Llorian, N. Ebert, F. Labroussaa, T.T.N. Thao, B.S. Trüeb, J. Jores, V. Thiel, M. Beer, J. Fuchs, G. Kochs, A. Wack, M. Schwemmle, and D. Schnepf. 2022. Impaired immune response drives age-dependent severity of COVID-19. *J Exp Med* **219**:e20220621.

Behrendt, P., M. Friesland, J.-E. Wißmann, V. Kinast, Y. Stahl, D. Praditya, L. Hueffner, P.M. Nörenberg, B. Bremer, B. Maasoumy, J. Steinmann, B. Becker, D. Paulmann, F.H.H. Brill, J. Steinmann, R.G. Ulrich, Y. Brüggemann, H. Wedemeyer, D. Todt, and E. Steinmann. 2022. Hepatitis E virus is highly resistant to alcohol-based disinfectants. *J Hepatol* **76**:1062-1069.

Belakehal, F., S.A. Barth, C. Menge, H.T. Mossadak, N. Malek, and I. Moser. 2022. Evaluation of the discriminatory power of spoligotyping and 19-locus mycobacterial interspersed repetitive unit-variable number of tandem repeat analysis (MIRU-VNTR) of *Mycobacterium bovis* strains isolated from cattle in Algeria. *PLoS one* **17**:e0262390.

Bell-Sakyi, L., C.S. Hartley, J.J. Khoo, J.H. Forth, A.M. Palomar, and B.L. Makepeace. 2022. New Cell Lines Derived from European Tick Species. *Microorganisms* **10**:1086.

Ben Said, M., S. Diaz Sanchez, A. Bastos, and C. Silaghi. 2022. Editorial: Current Knowledge on Pathogenic and Endosymbiotic Tick-Borne Bacteria. *Front Vet Sci* **9**:900510.

Benkaroun, J., S.M. Bergmann, A. Römer-Oberdörfer, M.D. Demircan, C. Tamer, G.R. Kachh, and M. Weidmann. 2022. New Insights into Lymphocystis Disease Virus Genome Diversity. *Viruses* **14**:2741.

Bergmann, F., D.S. Trachsel, S.D. Stoeckle, J. Bernis Sierra, S. Lübke, M.H. Groschup, H. Gehlen, and U. Ziegler. 2022. Seroepidemiological Survey of West Nile Virus Infections in Horses from Berlin/Brandenburg and North Rhine-Westphalia, Germany. *Viruses* **14**:243.

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<sup>2</sup> FLI Members HEV Sequencing Study Group: Eiden, M., and B. Boettcher

- Bergmann, H., J. Dups-Bergmann, K. Schulz, C. Probst, L. Zani, M. Fischer, J. Gethmann, N. Denzin, S. Blome, F.J. Conraths, and C. Sauter-Louis. 2022. Identification of Risk Factors for African Swine Fever: A Systematic Review. *Viruses* 14:2107.
- Bergmann, S.M., M. Reichert, A.M. Becker, M. Lenk, G. Kotterba, R. Buchholz, S. Jung, A. Gebler, M. Todte, J. Kielpinska, and C. Lindenberger. 2022. The application of exopolysaccharides (EPS) can prevent viral disease of fish. *Bull Eur Assoc Fish Pathol* 42:15-27.
- Berguido, F.J., E. Gelaye, Y. Liu, B. Davaasuren, K. Krstevski, I. Djadjovski, E. Ivanova, G. Goujgoulova, A. Loitsch, E. Tuppurainen, T.R. Chibssa, P. Caufour, M. Samojlovic, S. Lazić, T. Petrovic, D. Vidanovic, S. Bertagnoli, R. Grabherr, A. Diallo, G. Cattoli, and C.E. Lamien. 2022. Development and Optimization of Indirect ELISAs for the Detection of Anti-Capripoxvirus Antibodies in Cattle, Sheep, and Goat Sera. *Microorganisms* 10:1956.
- Bhar, A., L.C. Gierse, A. Meene, H. Wang, C. Karte, T. Schwaiger, C. Schröder, T.C. Mettenleiter, T. Urich, K. Riedel, and L. Kaderali. 2022. Application of a Maximal-Clique Based Community Detection Algorithm to Gut Microbiome Data Reveals Driver Microbes During Influenza A Virus Infection. *Front Microbiol* 13:979320.
- Bhowmick, S., K.K. Kasi, J. Gethmann, S. Fischer, F.J. Conraths, I.M. Sokolov, and H.H.K. Lentz. 2022. Ticks on the Run: A Mathematical Model of Crimean-Congo Haemorrhagic Fever (CCHF)—Key Factors for Transmission. *Epidemiologia* 3:116-134.
- Blaurock, C., A. Breithaupt, S. Weber, C. Wylezich, M. Keller, B.-P. Mohl, D. Görlich, M.H. Groschup, B. Sadeghi, D. Höper, T.C. Mettenleiter, and A. Balkema-Buschmann. 2022. Compellingly high SARS-CoV-2 susceptibility of Golden Syrian hamsters suggests multiple zoonotic infections of pet hamsters during the COVID-19 pandemic. *Sci Rep* 12:15069.
- Blaurock, C., F. Pfaff, D. Scheibner, B. Hoffmann, A. Fusaro, I. Monne, T.C. Mettenleiter, A. Breithaupt, and E.M. Abdelwhab. 2022. Evidence for Different Virulence Determinants and Host Response after Infection of Turkeys and Chickens with Highly Pathogenic H7N1 Avian Influenza Virus. *J Virol* 96:e00994-22.
- Bodmer, B.S., and T. Hoenen. 2022. Assessment of Life Cycle Modeling Systems as Prediction Tools for a Possible Attenuation of Recombinant Ebola Viruses. *Viruses* 14:1044.
- Brachtl, G., R. Poupardin, S. Hochmann, A. Raninger, K. Jürchott, M. Streitz, S. Schlickeiser, M. oeller, M. Wolf, K. Schallmoser, H.-D. Volk, S. Geissler, and D. Strunk. 2022. Batch Effects during Human Bone Marrow Stromal Cell Propagation Preval Donor Variation and Culture Duration: Impact on Genotype, Phenotype and Function. *Cells* 11:946.
- Brake, D.A., J.H. Kuhn, G.A. Marsh, M. Beer, and J.B. Fine. 2022. Challenges and Opportunities in the Use of High and Maximum Biocontainment Facilities in Developing and Licensing Risk Group 3 and Risk Group 4 Agent Veterinary Vaccines. *ILAR J* 61:46-61.
- Brangsch, H., A. Golovko, N. Pinchuk, O. Deriabin, T. Kyselova, J. Linde, F. Melzer, and M.C. Elschner. 2022. Molecular Typing of Ukrainian *Bacillus anthracis* Strains by Combining Whole-Genome Sequencing Techniques. *Microorganisms* 10:461.
- Brangsch, H., M. Saqib, A.R. Sial, F. Melzer, J. Linde, and M.C. Elschner. 2022. Sequencing-Based Genotyping of Pakistani *Burkholderia mallei* Strains: A Useful Way for Investigating Glanders Outbreaks. *Pathogens* 11:614.
- Brangsch, H., H. Singha, K. Laroucau, and M. Elschner. 2022. Sequence-based detection and typing procedures for *Burkholderia mallei*: Assessment and prospects. *Front Vet Sci* 9:1056996.
- Brede, M., S.-B. Haange, S. Riede, B. Engelmann, N. Jehmlich, U.E. Rolle-Kampczyk, K. Rohn, D. von Soosten, M. von Bergen, and G. Breves. 2022. Effects of Different Formulations of Glyphosate on

Rumen Microbial Metabolism and Bacterial Community Composition in the Rumen Simulation Technique System. *Front Microbiol* **13**:873101.

Brendecke, J., T. Homeier-Bachmann, A. Schmitz Ornés, S. Guenther, S.E. Heiden, M. Schwabe, E. Eger, and K. Schaufler. 2022. Multidrug-Resistant High-Risk *Escherichia coli* and *Klebsiella pneumoniae* Clonal Lineages Occur in Black-Headed Gulls from Two Conservation Islands in Germany. *Antibiotics* **11**:1357.

Brugger, D., B. Wagner, W.M. Windisch, H. Schenkel, K. Schulz, K.-H. Südekum, A. Berk, R. Pieper, J. Kowalczyk, and M. Spolders. 2022. Review: Bioavailability of trace elements in farm animals: definition and practical considerations for improved assessment of efficacy and safety. *Animal* **16**:100598.

Bui, T.T.N., P. Padungtod, K. Depner, V.D. Chuong, D.T. Duy, N.D. Anh, and K. Dietze. 2022. Implications of partial culling on African swine fever control effectiveness in Vietnam. *Front Vet Sci* **9**:957918.

Caballero-Gómez, J., I. García-Bocanegra, D. Cano-Terriza, A. Beato-Benítez, R.G. Ulrich, J. Martínez, R. Guerra, R. Martínez-Valverde, E. Martínez-Nevado, M.Á Quevedo-Muñoz, C. Sierra-Arqueros, J. Planas, N. de Castro-García, A. Rivero, and A. Rivero-Juarez. 2022. Monitoring of hepatitis E virus in zoo animals from Spain, 2007-2021. *Transbound Emerg Dis* **69**:3992-4001.

Caballero-Gómez, J., A. Rivero-Juarez, A. Beato-Benítez, C. Fernández-Maldonado, M. Domingo, D. García-Párraga, A. Fernández, E. Sierra, R.G. Ulrich, E. Martínez-Nevado, C. Sierra-Arqueros, R. Canales-Merino, A. Rivero, and I. García-Bocanegra. 2022. Hepatitis E Virus Infections in Free-Ranging and Captive Cetaceans, Spain, 2011-2022. *Emerg Infect Dis* **28**:2543-2547.

Caballero-Gómez, J., A. Rivero-Juarez, E. Jurado-Tarifa, D. Jiménez-Martín, E. Jiménez-Ruiz, S. Castro-Scholten, R.G. Ulrich, P. López-López, A. Rivero, and I. García-Bocanegra. 2022. Serological and molecular survey of hepatitis E virus in cats and dogs in Spain. *Transbound Emerg Dis* **69**:240-248.

Caballero-Gómez, J., A. Rivero-Juarez, I. Zorrilla, G. López, F. Nájera, R.G. Ulrich, C. Ruiz-Rubio, J. Salcedo, A. Rivero, J. Paniagua, and I. García-Bocanegra. 2022. Hepatitis E virus in the endangered Iberian lynx (*Lynx pardinus*). *Transbound Emerg Dis* **69**:e2745-e2756.

Caliendo, V., N.S. Lewis, A. Pohlmann, S.R. Baillie, A.C. Banyard, M. Beer, I.H. Brown, R.A.M. Fouchier, R.D.E. Hansen, T.K. Lameris, A.S. Lang, S. Laurendeau, O. Lung, G. Robertson, H. van der Jeugd, T.N. Alkie, K. Thorup, M.L. van Toor, J. Waldenström, C. Yason, T. Kuiken, and Y. Berhane. 2022. Transatlantic spread of highly pathogenic avian influenza H5N1 by wild birds from Europe to North America in 2021. *Sci Rep* **12**:11729.

Chan, J.T.H., S. Kadri, B. Köllner, A. Rebl, and T. Korytář. 2022. RNA-seq of single fish cells - seeking out the leukocytes mediating immunity in teleost fishes. *Front Immunol* **13**:798712.

Chenais, E., K. Depner, A. Ebata, M.-L. Penrith, D.U. Pfeiffer, C. Price, K. Ståhl, and K. Fischer. 2022. Exploring the hurdles that remain for control of African swine fever in smallholder farming settings. *Transbound Emerg Dis* **69**:e3370-e3378.

Chiou, K.L., M.C. Janiak, I.A. Schneider-Crease, S. Sen, F. Ayele, I.S. Chuma, S. Knauf, A. Lemma, A.V. Signore, A.M. D'Ippolito, B. Abebe, A.A. Haile, F. Kebede, P.J. Fashing, N. Nguyen, C. McCann, M.L. Houck, J.D. Wall, A.S. Burrell, C.M. Bergey, J. Rogers, J.E. Phillips-Conroy, C.J. Jolly, A.D. Melin, J.F. Storz, A. Lu, J.C. Beehner, T.J. Bergman, and N. Snyder-Mackler. 2022. Genomic signatures of high-altitude adaptation and chromosomal polymorphism in geladas. *Nat Ecol Evol* **6**:630-643.

Cierniak, F., R.G. Ulrich, M.H. Groschup, and M. Eiden. 2022. A Modular Hepatitis E Virus Replicon System for Studies on the Role of ORF1-Encoded Polyprotein Domains. *Pathogens* **11**:355.

Coroian, M., C. Silaghi, B.A. Tews, E.Ş. Baltag, M. Marinov, V. Alexe, Z. Kalmár, H. Cintia, M.S. Lupşu, and A.D. Mihalca. 2022. Serological Survey of Mosquito-Borne Arboviruses in Wild Birds from Important Migratory Hotspots in Romania. *Pathogens* 11:1270.

Cuadrado-Matías, R., B. Cardoso, M.A. Sas, I. García-Bocanegra, I. Schuster, D. González-Barrio, S. Reiche, M. Mertens, D. Cano-Terriza, L. Casades-Martí, S. Jiménez-Ruiz, J. Martínez-Guijosa, Y. Fierro, F. Gómez-Guillamón, C. Gortázar, P. Acevedo, M.H. Groschup, and F. Ruiz-Fons. 2022. Red deer reveal spatial risks of Crimean-Congo haemorrhagic fever virus infection. *Transbound Emerg Dis* 69:e630-e645.

Danne, L., L. Horn, A. Feldhaus, D. Fey, S. Emde, H. Schütze, M. Adamek, and J. Hellmann. 2022. Virus infections of the European Eel in North Rhine Westphalian rivers. *J Fish Dis* 45:69-76.

Deksne, G., M. Mateusa, S. Cvetkova, A. Derbakova, D. Keidāne, K. Troell, and G. Schares. 2022. Prevalence, risk factor and diversity of *Cryptosporidium* in cattle in Latvia. *Vet Parasitol Reg Stud Rep* 28:100677.

Denzin, N., M. Bölling, A. Pohlmann, J. King, A. Globig, and F.J. Conraths. 2022. Investigation into a Superspreading Event of the German 2020-2021 Avian Influenza Epidemic. *Pathogens* 11:309.

Deutschmann, P., T. Carrau, J. Sehl-Ewert, J.H. Forth, E. Viaplana, J.C. Mancera, A. Urniza, M. Beer, and S. Blome. 2022. Taking a Promising Vaccine Candidate Further: Efficacy of ASFV-G-ΔMGF after Intramuscular Vaccination of Domestic Pigs and Oral Vaccination of Wild Boar. *Pathogens* 11:996.

Deutschmann, P., J. Pikalo, M. Beer, and S. Blome. 2022. Lateral flow assays for the detection of African swine fever virus antigen are not fit for field diagnosis of wild boar carcasses. *Transbound Emerg Dis* 69:2344-2348.

Diel, F., E. Rauch, R. Palme, C. Sauter-Louis, and E. Zeiler. 2022. Exploring the Evacuation of Dairy Cattle at Night in Collaboration with the Fire Brigade: How to Prepare Openings for Swift Rescue in Case of Barn Fire. *Animals* 12:1344.

Diel de Amorim, M., S.A. Bramer, G.D. Rajamanickam, C. Klein, and C. Card. 2023. Endometrial and luteal gene expression of putative gene regulators of the equine maternal recognition of pregnancy. *Anim Reprod Sci* 245:107064.

Diel de Amorim, M., C. Klein, R. Foster, L. Dong, M.F. Lopez-Rodriguez, and C. Card. 2022. Expression of Oxytocin/Neurophysin I and Oxytocinase in the Equine Conceptus from Day 8 to Day 21 Post-Ovulation. *Animals* 12:799.

Dierks, C., S. Altgilbers, A. Weigend, R. Preisinger, and S. Weigend. 2022. Sexing assay for chickens and other birds for large-scale application based on a conserved sequence variant in CHD1 genes on W and Z chromosomes. *Anim Genet* 53:235-237.

Dreyer, S., A. Globig, L. Bachmann, A.K. Schütz, K. Schaufler, and T. Homeier-Bachmann. 2022. Longitudinal Study on Extended-Spectrum Beta-Lactamase-*E. coli* in Sentinel Mallard Ducks in an Important Baltic Stop-Over Site for Migratory Ducks in Germany. *Microorganisms* 10:1968.

Dudde, A., L. Phi van, L. Schrader, A.J. Obert, and E.T. Krause. 2022. Brain gain - Is the cognitive performance of domestic hens affected by a functional polymorphism in the serotonin transporter gene? *Front Psychol* 13:901022.

Ebenig, A., S. Muraleedharan, J. Kazmierski, D. Todt, A. Auste, M. Anzaghe, A. Görner, D. Postmus, P. Gogesch, M. Niles, R. Plesker, C. Miskey, M. Gellhorn Serra, A. Breithaupt, C. Hörner, C. Kruip, R. Ehmann, Z. Ivics, Z. Waibler, S. Pfaender, E. Wyler, M. Landthaler, A. Kupke, G. Nouailles, C. Goffinet, R.J.P. Brown, and M.D. Mühlebach. 2022. Vaccine-associated enhanced respiratory pathology in COVID-19 hamsters after T<sub>H</sub>2-biased immunization. *Cell Rep* 40:111214.

EFSA (European Food Safety Authority), Baños, J.V., A. Boklund, A. Gogin, C. Gortázar Schmidt, V. Guberti, G. Helyes, M. Kantere, D. Korytarova, A. Linden, M. Masiulis, A. Miteva, I. Neghirla, E. Oļševskis, S. Ostojic, S. Petr, C. Staubach, H.-H. Thulke, A. Viltrop, G. Wozniakowski, A. Broglia, J. Abrahantes Cortiñas, S. Dhollander, L. Mur, A. Papanikolaou, Y. van der Stede, G. Zancanaro, and K. Ståhl. 2022. Epidemiological analyses of African swine fever in the European Union. *EFSA J* 20:e07290.

Eger, E., M. Domke, S.E. Heiden, M. Paditz, V. Balau, C. Huxdorff, D. Zimmermann, T. Homeier-Bachmann, and K. Schaufler. 2022. Highly Virulent and Multidrug-Resistant *Escherichia coli* Sequence Type 58 from a Sausage in Germany. *Antibiotics* 11:1006.

Eisermann, J., H. Schomburg, J. Knöll, L. Schrader, and A. Patt. 2022. Bite-o-Mat: A device to assess the individual manipulative behaviour of group housed pigs. *Comput Electron Agric* 193:106708.

El-Husseini, D.M., A.E. Sayour, F. Melzer, M.F. Mohamed, H. Neubauer, and R.H. Tammam. 2022. Generation and Selection of Specific Aptamers Targeting *Brucella* Species through an Enhanced Cell-SELEX Methodology. *Int J Mol Sci* 23:6131.

Ellerhorst, M., S.A. Barth, A.P. Graça, W.K. Al-Jammal, L. Peña-Ortiz, I. Vilotijevic, and G. Lackner. 2022. S-Adenosylmethionine (SAM)-Dependent Methyltransferase MftM is Responsible for Methylation of the Redox Cofactor Mycofactocin. *ACS Chem Biol* 17:3207-3217.

Elmonir, W., N.H. Abdel-Hamid, M.E.R. Hamdy, E.I.M. Beleta, M. El-Diasty, F. Melzer, G. Wareth, and H. Neubauer. 2022. Isolation and molecular confirmation of *Brucella suis* biovar 2 from slaughtered pigs: an unanticipated biovar from domestic pigs in Egypt. *BMC Vet Res* 18:224.

Elnagar, A., S. Blome, M. Beer, and B. Hoffmann. 2022. Point-of-Care Testing for Sensitive Detection of the African Swine Fever Virus Genome. *Viruses* 14:2827.

Elsohaby, I., P. Kostoulas, A.M. Elsayed, H.A. Ahmed, M.M. El-Diasty, G. Wareth, F.M. Ghanem, and J.C. Arango-Sabogal. 2022. Bayesian Evaluation of Three Serological Tests for Diagnosis of *Brucella* infections in Dromedary Camels Using Latent Class Models. *Prev Vet Med* 208:105771.

Essbauer, S., K. Baumann, M. Schlegel, M.K. Faulde, J. Lewitzki, S.C. Sauer, D. Frangoulidis, J.M. Riehm, G. Dobler, J.P. Teifke, H. Meyer, and R.G. Ulrich. 2022. Small Mammals as Reservoir for Zoonotic Agents in Afghanistan. *Milit Med* 187:e189-e196.

European Food Safety Authority, European Centre for Disease Prevention and Control, European Union Reference Laboratory for Avian Influenza, C. Adlhoch, A. Fusaro, J.L. Gonzalez, T. Kuiken, S. Marangon, É. Niqueux, C. Staubach, C. Terregino, I. Aznar, I. Muñoz Guajardo, and F. Baldinelli. 2022. Avian influenza overview December 2021 - March 2022. *EFSA J* 20:e07289.

European Food Safety Authority, European Centre for Disease Prevention and Control, European Union Reference Laboratory for Avian Influenza, C. Adlhoch, A. Fusaro, J.L. Gonzalez, T. Kuiken, S. Marangon, É. Niqueux, C. Staubach, C. Terregino, I. Aznar, I. Muñoz Guajardo, and F. Baldinelli. 2022. Avian influenza overview March - June 2022. *EFSA J* 20:e07415.

European Food Safety Authority, European Centre for Disease Prevention and Control, European Union Reference Laboratory for Avian Influenza, C. Adlhoch, A. Fusaro, J.L. Gonzalez, T. Kuiken, S. Marangon, É. Niqueux, C. Staubach, C. Terregino, I. Aznar, I. Muñoz Guajardo, K. Chuzhakina, and F. Baldinelli. 2022. Avian influenza overview June - September 2022. *EFSA J* 20:e07597.

Eusemann, B.K., R. Ulrich, E. Sanchez-Rodriguez, C. Bernavides-Reyes, N. Dominguez-Gasca, A.B. Rodriguez-Navarro, and S. Petow. 2022. Bone quality and composition are influenced by egg production, layer line, and estradiol-17B in laying hens. *Avian Pathol* 51:267-282.

Falkenhagen, A., S.H. Tausch, A. Labutin, J. Grützke, G. Heckel, R.G. Ulrich, and R. Johne. 2022. Genetic and Biological Characteristics of Species A Rotaviruses Detected in Common Shrews Suggest a Distinct Evolutionary Trajectory. *Virus Evol* 8:veac004.



Farooq, M., A.U. Khan, H. El-Adawy, K. Mertens-Scholz, I. Khan, H. Neubauer, and Y.-S. Ho. 2022. Research Trends and Hotspots of Q Fever Research: A Bibliometric Analysis 1990-2019. *BioMed Res Int* 2022:9324471.

Fatola, O.I., M. Keller, A. Balkema-Buschmann, J. Olopade, M.H. Groschup, and C. Fast. 2022. Strain Typing of Classical Scrapie and Bovine Spongiform Encephalopathy (BSE) by Using Ovine PrP (ARQ/ARQ) Overexpressing Transgenic Mice. *Int J Mol Sci* 23:6744.

Fawzy, A., A.-S. Giel, L. Fenske, A. Bach, C. Herden, K. Engel, E. Heuser, M. Boelhaue, R.G. Ulrich, K. Vogel, K. Schmidt, and T. Eisenberg. 2022. Development and validation of a triplex real-time qPCR for sensitive detection and quantification of major rat bite fever pathogen *Streptobacillus moniliformis*. *J Microbiol Meth* 199:106525.

Fénéant, L., A. Leske, K. Günther, and A. Groseth. 2022. Generation of Reporter-Expressing New World Arenaviruses: A Systematic Comparison. *Viruses* 14:1563.

Fereig, R.M., G. Wareth, H.H. Abdelbaky, A.M. Mazeed, M. El-Diasty, A. Abdelkhalek, H.Y.A.H. Mahmoud, A.O. Ali, A. El-tayeb, A.F. Alsayeqh, and C.F. Frey. 2022. Seroprevalence of Specific Antibodies to *Toxoplasma gondii*, *Neospora caninum*, and *Brucella* spp. in Sheep and Goats in Egypt. *Animals* 12:3327.

Fernández-Escobar, M., G. Schares, P. Maksimov, M. Joeres, L.-M. Ortega-Mora, and R. Calero-Bernal. 2022. *Toxoplasma gondii* genotyping: a closer look into Europe. *Front Cell Infect Microbiol* 12:842595.

Ferrandis-Vila, M., S.K. Tiwari, S. Mamerow, T. Semmler, HECTOR consortium, C. Menge, and C. Berens. 2022. Using Unique ORFan Genes as Strain-specific Identifiers for *Escherichia Coli*. *BMC Microbiol* 22:135.

Fischer, K., S. Topallar, F. Kraatz, M.H. Groschup, and S. Diederich. 2022. The role of N-linked glycosylation in proteolytic processing and cell surface transport of the Cedar virus fusion protein. *Virology J* 19:136.

Forkel, H., P. Grabarczyk, M. Depke, S. Troschke-Meurer, S. Simm, E. Hammer, S. Michalik, C. Hentschker, B. Corleis, L. Loyal, M. Zumpe, N. Siebert, A. Dorhoi, A. Thiel, H. Lode, U. Völker, and C.A. Schmidt. 2022. BCL11B depletion induces the development of highly cytotoxic innate T cells out of IL-15 stimulated peripheral blood  $\alpha\beta$  CD8<sup>+</sup> T cells. *OncolImmunology* 11:e2148850.

Franco, S., N. Cougoule, A. Tison, A. Del Cont, C. Gastaldi, ILC Consortium<sup>3</sup>, and V. Duquesne. 2022. Reliability of Morphological and PCR Methods for the Official Diagnosis of *Aethina tumida* (Coleoptera: Nitidulidae): A European Inter-Laboratory Comparison. *Insects* 13:33.

Franco-Martínez, L., M. Beer, S. Martínez-Subiela, E. García-Manzanilla, S. Blome, and T. Carrau. 2022. Impact of ASFV Detergent Inactivation on Biomarkers in Serum and Saliva Samples. *Pathogens* 11:750.

Frank, C., J. Schmidt-Chanasit, U. Ziegler, R. Lachmann, K. Preußel, and R. Offergeld. 2022. West Nile Virus in Germany: An Emerging Infection and Its Relevance for Transfusion Safety. *Transfus Med Hemother* 49:192-203.

Freuling, C.M., F. Busch, A. Vos, S. Ortmann, F. Lohr, N. Hedimbi, J. Peter, H.A. Nelson, K. Shoombe, A. Shilongo, B. Gorejena, L. Kahlongo, S. Khaiseb, J. van der Westhuizen, K. Dietze, G. Geurtse, and T. Müller. 2022. Oral rabies vaccination of dogs-Experiences from a field trial in Namibia. *PLoS Neglect Trop Dis* 16:e0010422.

---

<sup>3</sup> FLI Member ILC Consortium: Schäfer, M.O.

Friedrichs, V., D. Reicks, T. Hasenfuß, E. Gerstenkorn, J.J. Zimmermann, E.A. Nelson, T. Carrau, P. Deutschmann, J. Sehl-Ewert, H. Roszyck, M. Beer, J. Christopher-Hennings, and S. Blome. 2022. Artificial Insemination as an Alternative Transmission Route for African Swine Fever Virus. *Pathogens* 11:1539.

Friedrichs, V., C. Toussaint, A. Schäfer, M. Rissmann, O. Dietrich, T.C. Mettenleiter, G. Pei, A. Balkema-Buschmann, A.-E. Saliba, and A. Dorhoi. 2022. Landscape and age dynamics of immune cells in the Egyptian rousette bat. *Cell Rep* 40:111305.

Fuandila, N.N., A.-S. Gosselin-Grenet, M.-K. Tilak, S.M. Bergmann, J.-M. Escoubas, S. Klafack, A.M. Lusiastuti, M. Yuhana, A.-S. Fiston-Lavier, J.-C. Avarre, and E. Cherif. 2022. Structural variation turnovers and defective genomes: key drivers for the in vitro evolution of the large double-stranded DNA koi herpesvirus (KHV). *Peer Comm J* 2:e44.

Galão, R.P., H. Wilson, K.L. Schierhorn, F. Debeljak, B.S. Bodmer, D. Goldhill, T. Hoenen, S.J. Wilson, C.M. Swanson, and S.J.D. Stuart. 2022. TRIM25 and ZAP target the Ebola virus ribonucleoprotein complex to mediate interferon-induced restriction. *PLoS Pathog* 18:e1010530.

Gallo, G., P. Kotlik, P. Roingeard, M. Monot, G. Chevreux, R.G. Ulrich, N. Tordo, and M. Ermonval. 2022. Diverse susceptibilities and responses of human and rodent cells to orthohantavirus infection reveal different levels of cellular restriction. *PLoS Neglect Trop Dis* 16:e0010844.

Ganzenberg, S., M. Sieg, U. Ziegler, M. Pfeffer, T.W. Vahlenkamp, U. Hörügel, M.H. Groschup, and K.L. Lohmann. 2022. Seroprevalence and Risk Factors for Equine West Nile Virus Infections in Eastern Germany, 2020. *Viruses* 14:1191.

Geibel, J., N.P. Praefke, S. Weigend, H. Simianer, and C. Reimer. 2022. Assessment of linkage disequilibrium patterns between structural variants and single nucleotide polymorphisms in three commercial chicken populations. *BMC Genomics* 23:193.

Gliga, D.S., W. Basso, F. Ardüser, G. Moore-Jones, G. Schares, P. Zanolari, and C.F. Frey. 2022. Switzerland-wide *Neospora caninum* seroprevalence in female cattle and identification of risk factors for infection. *Front Vet Sci* 9:1059697.

Goller, K.V., J. Moritz, J. Ziemann, C. Kohler, K. Becker, N.-O. Hübner, and the CoMV-Gen Study Group<sup>4</sup>. 2022. Differences in Clinical Presentations of Omicron Infections with the Lineages BA.2 and BA.5 in Mecklenburg-Western Pomerania, Germany, between April and July 2022. *Viruses* 14:2033.

González-Santamarina, B., C. Schnee, H. Köhler, M. Weber, U. Methner, C. Seyboldt, C. Berens, and C. Menge. 2022. Untersuchung zur Ausscheidung ausgewählter pathogener, zoonotischer oder antimikrobiell resistenter Bakterien bei südamerikanischen Kameliden in Mitteldeutschland. *Berl Münch Tierärztl Wschr* 135, doi:10.2376/1439-0299-2021-21.

González-Santamarina, B., M. Weber, C. Menge, and C. Berens. 2022. Comparative Genomic Analysis of Antimicrobial-Resistant *Escherichia coli* from South American Camelids in Central Germany. *Microorganisms* 10:1697.

Goonewardene, K.B., C. Onyilagha, M. Goolia, V.P. Le, S. Blome, and A. Ambagala. 2022. Superficial Inguinal Lymph Nodes for Screening Dead Pigs for African Swine Fever. *Viruses* 14:83.

Górriz-Martín, L., A. Koenig, K. Jung, W. Bergforth, D. von Soosten, M. Hoedemaker, and Á.C. Bajcsy. 2022. Comparison between a Calving Predictive System and a Routine Prepartal Examination in German Holstein Heifers and Cows. *Vet Sci* 9:192.

---

<sup>4</sup> FLI Members CoMV-Gen Study Group: Beer, M., A. Pohlmann, J. King, L. Stacker

Göttling, J., J.-O. Heckel, H. Hotzel, A. Fruth, Y. Pfeifer, K. Henning, P. Kopp, K. Mertens-Scholz, W. Rietschel, and M. Pfeffer. 2022. Zoonotic bacteria in clinically healthy goats in petting zoo settings of zoological gardens in Germany. *Zoonoses Publ Health* 69:333-343.

Graaf, A., P.P. Petric, J. Sehl-Ewert, D. Henritzi, A. Breithaupt, J. King, A. Pohlmann, F. Deutskens, M. Beer, M. Schwemmle, and T. Harder. 2022. Cold-passaged isolates and bat-swine influenza A chimeric viruses as modified live-attenuated vaccines against influenza A viruses in pigs. *Vaccine* 40:6255-6270.

Gubbins, S., D.J. Paton, A. Dekker, A.B. Ludi, G. Wilsden, C.F.J. Browning, M. Eschbaumer, J. Barnabei, H. Duque, L.L. Pauszek, and D.P. King. 2022. Predicting cross-protection against foot-and-mouth disease virus strains by serology after vaccination. *Front Vet Sci* 9:1027006.

Guinat, C., C. Valenzuela Agui, T.G. Vaughan, J. Scire, A. Pohlmann, C. Staubach, J. King, E. Świątoń, A. Dán, L. Černíková, M.F. Ducátez, and T. Stadler. 2022. Disentangling the role of poultry farms and wild birds in the spread of highly pathogenic avian influenza virus in Europe. *Virus Evol* 8:veac073.

Günther, A., O. Krone, V. Svansson, A. Pohlmann, J. King, G.T. Hallgrímsson, K.H. Skarphéðinsson, H. Sigurðardóttir, S.R. Jónsson, M. Beer, B. Brugger, and T. Harder. 2022. Iceland as Stepping Stone for Spread of Highly Pathogenic Avian Influenza Virus between Europe and North America. *Emerg Infect Dis* 28:2383-2388.

Guo, Y., Y. Wang, Z. Fan, X. Zhao, S.M. Bergmann, H. Dong, Y. Jin, D. Sun, Q. Mai, W. Liu, and W. Zeng. 2022. Establishment and evaluation of qPCR and real-time recombinase-aided amplification assays for detection of largemouth bass ranavirus. *J Fish Dis* 45:1033-1043.

Hagag, I.T., T. Langner, M.H. Groschup, and M. Keller. 2022. Molecular surveillance revealed no SARS-CoV-2 spillovers to raccoons (*Procyon lotor*) in four German federal states. *Eur J Wildlife Res* 68:54.

Hagag, I.T., K. Pyrc, S. Weber, A. Balkema-Buschmann, M.H. Groschup, and M. Keller. 2022. Mutations in SARS-CoV-2 nucleocapsid in variants of concern impair the sensitivity of SARS-CoV-2 detection by rapid antigen tests. *Front Virol* 2:971862.

Hamel, D., M. Visser, S. Mayr, O. Tauchmann, C. Silaghi, and S. Rehbein. 2021. Bovine parafilariosis - New autochthonous cases from Germany and summary of recent reports from Europe. *Vet Parasitol Reg Stud Rep* 28:100678.

Handley, B.L., C. González-Beiras, S. Tchatchouang, L.A. Basing, K.A. Hugues, M. Bakheit, L. Becherer, C. Ries, E.N. Tabah, T. Crucitti, N. Borst, S. Lüert, S. Frischmann, T. Haerpfer, E. Landmann, I. Amanor, A. Sylla, M.S. Kouamé-Sina, J.P. Ndzomo-Ngono, A. Tano, D. Arhinful, P. Awondo, S.N. Kakou, S. Eyangoh, K.K. Addo, E.M. Harding-Esch, S. Knauf, O. Mitjà, and M. Marks. 2022. LAMP4yaws: *Treponema pallidum*, *Haemophilus ducreyi* loop mediated isothermal amplification - protocol for a cross-sectional, observational, diagnostic accuracy study. *BMJ Open* 12:e058605.

Hashem, Y.M., W.S. Mousa, E.E. Abdeen, H.M. Abdelkhalek, M. Nooruzzaman, A. El-Askary, K.A. Ismail, A.M. Megahed, A. Abdeen, E.A. Soliman, and G. Wareth. 2022. Prevalence and Molecular Characterization of *Mycoplasma* Species, *Pasteurella multocida*, and *Staphylococcus aureus* Isolated from Calves with Respiratory Manifestations. *Animals* 12:312.

Hassan, K.E., A.K. Ahrens, A. Ali, M.F. El-Kady, H.M. Hafez, T.C. Mettenleiter, M. Beer, and T. Harder. 2022. Improved Subtyping of Avian Influenza Viruses Using an RT-qPCR-Based Low Density Array: 'Riems Influenza A Typing Array', Version 2 (RITA-2). *Viruses* 14:415.

Hassan, L., S. Ali, M.A. Syed, A.A. Shah, S.A. Abbasi, S. Tabassum, U. Saeed, F. Melzer, A.U. Khan, H. El-Adawy, and H. Neubauer. 2022. Risk Factors for Acute Brucellosis in Patients on the Day of Admission at Selected Hospitals of Abbottabad, Pakistan. *Front Publ Health* 9:669278.

- Häußler, T.C., N. Thom, E. Prenger-Berninghoff, K. Köhler, and S.A. Barth. 2022. Challenging diagnosis and successful treatment of localised *Mycobacterium avium* subsp. *hominissuis* glossitis in a dog on long-term immunomodulatory therapy. *New Zeal Vet J* 70:340-348.
- Hausmann, K., M. Streitz, A. Takvorian, J. Grund, Z. Skenderi, C. Tietze-Bürger, K. Movassaghi, A. Künkele, A. Blum, and L. Bullinger. 2022. Widely applicable, extended flow cytometric stem cell enumeration panel for quality control of advanced cellular products. *Sci Rep* 12:17995.
- Hawkins, D., R. Kusi, S. Schwab, I.S. Chuma, J.D. Keyyu, S. Knauf, F.M.D. Paciência, D. Zinner, J. Rychtář, and D. Taylor. 2022. Mathematical modelling *Treponema* infection in free-ranging Olive baboons (*Papio anubis*) in Tanzania. *Epidemics* 41:100638.
- Hemmink, J.D., H.M. Abkallo, S.P. Henson, E.M. Khazalwa, B. Oduor, A. Lacasta, E. Okoth, V. Riitho, W. Fuchs, R.P. Bishop, and L. Steinaa. 2022. The African Swine Fever Isolate ASFV-Kenya-IX-1033 Is Highly Virulent and Stable after Propagation in the Wild Boar Cell Line WSL. *Viruses* 14:1912.
- Hemmink, J.D., E.M. Khazalwa, H.M. Abkallo, B. Oduor, J. Khayumbi, N. Svitek, S.P. Henson, S. Blome, G. Keil, R.P. Bishop, and L. Steinaa. 2022. Deletion of the CD2v Gene from the Genome of ASFV-Kenya-IX-1033 Partially Reduces Virulence and Induces Protection in Pigs. *Viruses* 14:1917.
- Hennig, C., A. Graaf, P.P. Petric, L. Graf, M. Schwemmle, M. Beer, and T. Harder. 2022. Are pigs overestimated as a source of zoonotic influenza viruses? *Porcine Health Manag* 8:1-12.
- Henning, H., J. Franz, J. Batz-Schott, X.L. Thi, and D. Waberski. 2022. Assessment of Chilling Injury in Boar Spermatozoa by Kinematic Patterns and Competitive Sperm-Oviduct Binding In Vitro. *Animals* 12:712.
- Henning, H., A.-M. Luther, L. Höfner-Schmiing, and D. Waberski. 2022. Compensability of an enhanced incidence of spermatozoa with cytoplasmic droplets in boar semen for use in artificial insemination: a single cell approach. *Sci Rep* 12:21833.
- Henning, H., Q.T. Nguyen, A.-M. Luther, U. Wallner, M. Beyerbach, and D. Waberski. 2022. In vitro storage of boar spermatozoa increases the demand of ATP for reactivation of motility. *Andrology* 10:1426-1440.
- Henning, H., Q.T. Nguyen, U. Wallner, A.-M. Luther, and D. Waberski. 2022. Liquid preservation of boar semen: Insights into the sperm's energy budget. *Anim Reprod Sci* 247:107109.
- Henning, H., Q.T. Nguyen, U. Wallner, and D. Waberski. 2022. Temperature limits for storage of extended boar semen from the perspective of the sperm's energy status. *Front Vet Sci* 9:953021.
- Hirschbühl, K., T. Schaller, B. Märkl, R. Claus, E. Sipos, L. Rentschler, A. Maccagno, B. Grosser, E. Kling, M. Neidig, T. Kröncke, O. Spring, G. Braun, H. Bösmüller, M. Seidl, I. Esposito, J. Pablik, J. Hilsenbeck, P. Boor, M. Beer, S. Dintner, and C. Wylezich. 2022. High viral loads: what drives fatal cases of COVID-19 in vaccinees? - an autopsy study. *Mod Pathol* 35:1013-1021.
- Hodnik, J.J., Ž. Acinger-Rogić, M. Alishani, T. Autio, A. Balseiro, J. Berezowski, L.P. Carmo, I. Chaligiannis, B. Conrady, L. Costa, I. Cvetkovikj, I. Davidov, M. Dispas, I. Djadjovski, E. Leclerc Duarte, C. Faverjon, C. Fourichon, J. Frössling, A. Gerilovych, J. Gethmann, J. Gomes, D. Graham, M. Guelbenzu, G.J. Gunn, M.K. Henry, P. Hopp, H. Houe, E. Irimia, J. Ježek, R.A. Juste, E. Kalaitzakis, J. Kaler, S. Kaplan, P. Kostoulas, K. Kovalenko, N. Knežević, T. Knific, X. Koleci, A. Madouasse, A. Malakauskas, R. Mandelik, E. Meletis, M. Mincu, K. Mötus, V. Muñoz-Gómez, M. Niculae, J. Nikitović, M. Ocepek, M. Tangen-Opsal, L. Ózsvári, D. Papadopoulos, T. Papadopoulos, S. Pelkonen, M.P. Polak, N. Pozzato, E. Rapaliuté, S. Ribbens, J. Niza-Ribeiro, F.-F. Roch, L. Rosenbaum Nielsen, J.L. Saez, S. Saxmose Nielsen, G. van Schaik, E. Schwan, B. Sekovska, J. Starič, S. Strain, P. Šatran, S. Šerić-Haračić, L.-M. Tamminen, H.-H. Thulke, I. Toplak, E. Tuunainen, S. Verner, Š. Vilček, R. Yildiz, and I.M.G.A. Santman-Berends. 2022. Corrigendum: Overview of Cattle Diseases Listed Under Category C, D or E in the Animal Health Law for Which Control Programmes Are in Place Within Europe. *Front Vet Sci* 9:902559.

Hoenen, T., and A. Groseth. 2022. Editorial: Virus-Host Cell Interactions. *Cells* 11:804.

Hoffmann, B., S. Joseph, N.A. Georgy Patteril, M. Rodriguez Caveney, S.K. Elizabeth, R. Muhammed, R. Wernery, and U. Wernery. 2022. Comparative genome analysis of all nine African horse sickness serotypes isolated from equine fatalities in Kenya and South Africa. *J Equine Vet Sci* 119:104137.

Holicki, C.M., F. Bergmann, F. Stoek, A. Schulz, M.H. Groschup, U. Ziegler, and B. Sadeghi. 2022. Expedited retrieval of high-quality Usutu virus genomes via Nanopore sequencing with and without target enrichment. *Front Microbiol* 13:1044316.

Holzer, K., G. Wareth, M. El-Diasty, N.H. Abdel-Hamid, M.E.R. Hamdy, S.A. Moustafa, J. Linde, F. Bartusch, M.Y. Abdel-Glil, A.E. Sayour, E.M. Elbauomy, M. Elhadidy, F. Melzer, and W. Beyer. 2022. Tracking the distribution, genetic diversity, and lineage of *Brucella melitensis* recovered from humans and animals in Egypt based on core-genome SNP analysis and *in silico* MLVA-16. *Transbound Emerg Dis* 69:3952-3963.

Hölzer, M., A. Escobar-Zepeda, J. Linde, and F. Horn. 2022. Editorial: The transition era to new sequencing technologies and their application to integrative omics in molecular surveillance. *Front Genet* 13:840782.

Holzerland, J., L. Fénéant, and A. Groseth. 2022. Regulation of Stress-Activated Kinases in Response to Tacaribe Virus Infection and Its Implications for Viral Replication. *Viruses* 14:2018.

Homeier-Bachmann, T., J.F. Kleist, A.K. Schütz, and L. Bachmann. 2022. Distribution of ESBL/AmpC-*Escherichia coli* on a Dairy Farm. *Antibiotics* 11:940.

Homeier-Bachmann, T., A.K. Schütz, S. Dreyer, J. Glanz, K. Schaufler, and F.J. Conraths. 2022. Genomic Analysis of ESBL-Producing *E. coli* in Wildlife from North-Eastern Germany. *Antibiotics* 11:123.

Hussain, S., M. Saqib, H. El-Adawy, M.H. Hussain, T. Jamil, M.S. Sajid, M.A. Alvi, M. Ghafoor, M.H. Tayyab, Z. Abbas, K. Mertens-Scholz, H. Neubauer, I. Khan, M.K. Mansoor, and G. Muhammad. 2022. Seroprevalence and Molecular Evidence of *Coxiella burnetii* in Dromedary Camels of Pakistan. *Front Vet Sci* 9:908479.

Jahnke, R., S. Matthiesen, L.M. Zaack, S. Finke, and M.R. Knittler. 2022. *Chlamydia trachomatis* Cell-to-Cell Spread through Tunneling Nanotubes. *Microbiol Spectr* 10:e0281722.

Jamil, T., K. Akar, S. Erdenlig, J. Murugaiyan, V. Sandalakis, E. Boukouvala, A. Psaroulaki, F. Melzer, H. Neubauer, and G. Wareth. 2022. Spatio-Temporal Distribution of Brucellosis in European Terrestrial and Marine Wildlife Species and Its Regional Implications. *Microorganisms* 10:1970.

Jansen van Vuren, P., N.S. Balasubramanian, H. Keck, M. Eschbaumer, and W. Vosloo. 2022. Chemical inactivation of foot-and-mouth disease virus in bovine tongue epithelium for safe transport and downstream processing. *J Virol Methods* 305:114539.

Jeske, K., B. Herzig-Straschil, C. Răileanu, D. Kunec, O. Tauchmann, D. Emirhar, S. Schmidt, J. Trimpert, C. Silaghi, G. Heckel, R.G. Ulrich, and S. Drewes. 2022. Zoonotic pathogen screening of striped field mice (*Apodemus agrarius*) from Austria. *Transbound Emerg Dis* 69:886-890.

Jeske, K., J. Schulz, D. Tekemen, L. Balčiauskas, L. Balčiauskienė, M. Hiltbrunner, S. Drewes, A. Mayer-Scholl, G. Heckel, and R.G. Ulrich. 2022. Cocirculation of *Leptospira* spp. and multiple orthohantaviruses in rodents, Lithuania, Northern Europe. *Transbound Emerg Dis* 69:e3196-e3201.

Jin, Y., S.M. Bergmann, Q. Mai, Y. Yang, W. Liu, D. Sun, Y. Chen, Y. Yu, Y. Liu, W. Cai, H. Dong, H. Li, H. Yu, Y. Wu, M. Lai, and W. Zeng. 2022. Simultaneous Isolation and Identification of Largemouth Bass Virus and Rhabdovirus from Moribund Largemouth Bass (*Micropterus salmoides*). *Viruses* 14:1643.

Johne, R., K. Schilling-Loeffler, R.G. Ulrich, and S.H. Tausch. 2022. Whole Genome Sequence Analysis of a Prototype Strain of the Novel Putative Rotavirus Species L. *Viruses* 14:462.

Jung, L., C.B. Rufener, and S. Petow. 2022. A tagged visual analogue scale is a reliable method to assess keel bone deviations in laying hens from radiographs. *Front Vet Sci* 9:937119.

Kaczorek-Lukowska, E., K. Wernike, M. Beer, M. Wróbel, J. Małaczewska, E. Mikulska-Skupień, K. Malewska, I. Mielczarska, and A.K. Siwicki. 2022. High Seroprevalence against SARS-CoV-2 among Dogs and Cats, Poland, 2021/2022. *Animals* 12:2016.

Kalnins, L., O. Krüger, and E.T. Krause. 2022. Plumage and Fat Condition Scores as Well-Being Assessment Indicators in a Small Passerine Bird, the Zebra Finch (*Taeniopygia guttata*). *Front Vet Sci* 9:791412.

Kaplonek, P.M., Y. Ling, K. Reppe, F. Voß, T. Kohler, F. Ebner, A. Schäfer, U. Blohm, P. Priegue, M. Bräutigam, C.L. Pereira, S.G. Parameswarappa, P. Ménová, M. Witzernath, S. Hammerschmidt, S. Hartmann, L.E. Sander, and P.H. Seeberger. 2022. A semisynthetic glycoconjugate provides expanded cross-serotype protection against *Streptococcus pneumoniae*. *Vaccine* 40:1038-1046.

Keck, H., M. Eschbaumer, M. Beer, and B. Hoffmann. 2022. Comparison of Biosafety and Diagnostic Utility of Biosample Collection Cards. *Viruses* 14:2392.

Keck, H., B. Hoffmann, and M. Eschbaumer. 2022. Proof of Proficiency of Decentralized Foot-and-Mouth Disease Virus Diagnostics in Germany. *Viruses* 14:1098.

Keck, H., B. Litz, B. Hoffmann, J. Sehl-Ewert, M. Beer, and M. Eschbaumer. 2022. Full-Length Genomic RNA of Foot-and-Mouth Disease Virus Is Infectious for Cattle by Injection. *Viruses* 14:1924.

Keller, M., N. Peter, C.M. Holicki, A.V. Schantz, U. Ziegler, M. Eiden, D.D. Dörge, A. Vilcinskas, M.H. Groschup, and S. Klimpel. 2022. SARS-CoV-2 and West Nile Virus Prevalence Studies in Raccoons and Raccoon Dogs from Germany. *Viruses* 14:2559.

Kerkow, A., R. Wieland, J.M. Gethmann, F. Hölker, and H.H.K. Lentz. 2022. Linking a compartment model for West Nile virus with a flight simulator for vector mosquitoes. *Ecol Model* 464:109840.

Kiffner, C., F.M.D. Paciência, G. Henrich, R. Kaitila, I.S. Chuma, P. Mbaryo, S. Knauß, J. Kioko, and D. Zinner. 2022. Road-based line distance surveys overestimate densities of olive baboons. *PLoS one* 17:e0263314.

King, J., T. Harder, A. Globig, L. Stacker, A. Günther, C. Grund, M. Beer, and A. Pohlmann. 2022. Highly Pathogenic Avian Influenza Virus Incursions of Subtype H5N8, H5N5, H5N1, H5N4 and H5N3 in Germany during 2020-2021. *Virus Evol* 8:veac035.

King, J., C. Staubach, C. Lüder, S. Koethe, A. Günther, L. Stacker, D. Rubbenstroth, K. Dietze, C. Grund, F.J. Conraths, T. Harder, M. Beer, and A. Pohlmann. 2022. Connect to Protect: Dynamics and Genetic Connections of Highly Pathogenic Avian Influenza Outbreaks in Poultry from 2016 to 2021 in Germany. *Viruses* 14:1849.

Klafack, S., L. Schröder, Y. Jin, M. Lenk, P.-Y. Lee, W. Fuchs, J.-C. Avarre, and S.M. Bergmann. 2022. Development of an attenuated vaccine against Koi Herpesvirus Disease (KHVD) suitable for oral administration and immersion. *npj Vaccines* 7:106.

Klein, A., E. Eggerbauer, M. Potratz, L.M. Zaack, S. Calvelage, S. Finke, T. Müller, and C.M. Freuling. 2022. Comparative pathogenesis of different phylogroup I bat lyssaviruses in a standardized mouse model. *PLoS Neglect Trop Dis* 16:e0009845.

Klein, S., R. Dosch, S. Altgilbers, and W.A. Kues. 2022. Identification of chicken LOC420478 as Bucky ball equivalent and potential germ plasm organizer in birds. *Sci Rep* 12:16858.

- Knific, T., A. Kirbiš, J.M. Gethmann, J. Prezelj, B. Krt, and M. Ocepek.** 2022. Modeling Paratuberculosis Transmission in a Small Dairy Herd Typical of Slovenia Suggests That Different Models Should Be Used to Study Disease Spread in Herds of Different Sizes. *Animals* **12**:1150.
- Knific, T., M. Ocepek, A. Kirbiš, B. Krt, J. Prezelj, and J.M. Gethmann.** 2022. Quantitative Risk Assessment of Exposure to *Mycobacterium avium* subsp. *paratuberculosis* (MAP) via Different Types of Milk for the Slovenian Consumer. *Foods* **11**:1472.
- Koethe, S., P. König, K. Wernike, J. Schulz, I. Reimann, and M. Beer.** 2022. Bungowannah Pestivirus Chimeras as Novel Double Marker Vaccine Strategy against Bovine Viral Diarrhea Virus. *Vaccines* **10**:88.
- Köhler, H., A. Wichert, and K. Donat.** 2022. Variation in the Performance of Different Batches of Two *Mycobacterium avium* Subspecies *paratuberculosis* Antibody ELISAs Used for Pooled Milk Samples. *Animals* **12**:442.
- Könenkamp, L., U. Ziegler, T. Naucke, M.H. Groschup, and I. Steffen.** 2022. Antibody ratios against NS1 antigens of tick-borne encephalitis and West Nile viruses support differential flavivirus serology in dogs. *Transbound Emerg Dis* **69**:e2789-e2799.
- König, P., F.J. Conraths, and M. Beer.** 2022. BHV-1 - ein Update 2022. *Prakt Tierarzt* **103**:940-946.
- Kononov, S.U., J. Meyer, J. Frahm, S. Kersten, J. Kluess, S. Bühler, A. Wegerich, J. Rehage, U. Meyer, K. Huber, and S. Dänicke.** 2022. Dietary L-carnitine affects leukocyte count and function in dairy cows around parturition. *Front Immunol* **13**:784046.
- Körsten, C., A. Al-Hosary, M. Schäfer, B.A. Tews, D. Werner, H. Kampen, A. Vasic, and C. Silaghi.** 2022. Vector Competence of German *Aedes punctor* (Kirby, 1837) for West Nile Virus Lineages 1 and 2. *Viruses* **14**:2787.
- Korthase, C., A. Elnagar, M. Beer, and B. Hoffmann.** 2022. Easy Express Extraction (TripleE)—A Universal, Electricity-Free Nucleic Acid Extraction System for the Lab and the Pen. *Microorganisms* **10**:1074.
- Kowalczyk, J., N. Barak, O. Riede, A.M. Engel, F. Koch, M. Spolders, S. Blome, and R. Pieper.** 2022. Literature review and qualitative risk assessment on the role of feed materials in African Swine Fever Virus transmission. *Berl Münch Tierärztl Wschr* **135** [Epub ahead of print; doi:10.2376/1439-0299-2022-3]
- Krieger, M., S. Eisenberg, H. Köhler, F. Freise, and A. Campe.** 2022. Within-herd prevalence threshold for the detection of *Mycobacterium avium* ssp. *paratuberculosis* antibody-positive dairy herds using pooled milk samples: A field study. *J Dairy Sci* **105**:585-594.
- Król, N., A. Obiegala, C. Imholt, C. Arz, E. Schmidt, K. Jeske, R.G. Ulrich, Z. Rentería-Solís, J. Jacob, and M. Pfeffer.** 2022. Diversity of *Borrelia burgdorferi* sensu lato in ticks and small mammals from different habitats. *Parasite Vector* **15**:195.
- Kroniger, T., D. Flender, R. Schlüter, B. Köllner, A. Trautwein-Schult, and D. Becher.** 2022. Proteome analysis of the Gram-positive fish pathogen *Renibacterium salmoninarum* reveals putative role of membrane vesicles in virulence. *Sci Rep* **12**:3003.
- Kroniger, T., M. Mehanny, R. Schlüter, A. Trautwein-Schult, B. Köllner, and D. Becher.** 2022. Effect of Iron Limitation, Elevated Temperature, and Florfenicol on the Proteome and Vesiculation of the Fish Pathogen *Aeromonas salmonicida*. *Microorganisms* **10**:1735.
- Krumkamp, R., F.J. Conraths, S. Caccio, G. Schares, B. Hogan, D. Winter, A. Jaeger, S. Melhem, N. Rakotozandrindrainy, J. May, R. Rakotozandrindrainy, and D. Eibach.** 2022. Clustering of *Cryptosporidium* species infections among sheep and cattle but not children in remote highland communities of Madagascar. *Parasite Vector* **15**:304.

Kues, W.A., and D. Kumar. 2022. Cocktails of defined chemical compounds: sufficient to induce totipotency in embryonic stem cells. *Signal Transduct Target Ther* 7:330.

Kues, W.A., D. Kumar, N.L. Selokar, and T.R. Talluri. 2022. Applications of genome editing tools in stem cells towards regenerative medicine: An update. *Curr Stem Cell Res Ther* 17:267-279.

Kuhn, J.H., S. Adkins, S.V. Alkhovsky, T. Avsic-Zupanc, M.A. Ayllon, J. Bahl, A. Balkema-Buschmann, M.J. Ballinger, M. Bandtke, M. Beer, N. Bejerman, E. Bergeron, N. Biedenkopf, L. Bigarré, C.D. Blair, K.R. Blasdell, S.B. Bradfute, T. Briese, P.A. Brown, R. Bruggmann, U.J. Buchholz, M.J. Buchmeier, A. Bukreyev, F. Burt, C. Büttner, C.H. Calisher, T. Candresse, J. Carson, I. Casas, K. Chandran, R.N. Charrel, Y. Chiaki, A. Crane, M. Crane, L. Dacheux, E. Dal Bo, J.C. de la Torre, X. de Lamballerie, W.M. de Souza, R.L. de Swart, N.M. Dheilly, N. Di Paola, F. Di Serio, R.G. Dietzgen, M. Digiario, J.F. Drexler, W.P. Duprex, R. Dürrwald, A.J. Easton, T. Elbeaino, K. Ergünay, G. Feng, C. Feuvrier, A.E. Firth, A.R. Fooks, P.B.H. Formenty, J. Freitas-Astúa, S. Gago-Zachert, M.L. García, A. García-Sastre, A.R. Garrison, S.E. Godwin, J.-P.J. Gonzalez, J. Goüy de Bellocq, A. Griffiths, M.H. Groschup, S. Günther, J. Hammond, J. Hepojoki, M.M. Hierweger, S. Hongo, M. Horie, H. Horikawa, H.R. Hughes, A.J. Hume, T.H. Hyndman, D. Jiang, G.B. Jonson, S. Junglen, F. Kadono, D.G. Karlin, B. Klempa, J. Klingström, M.C. Koch, H. Kondo, E.V. Koonin, J. Krásová, M. Krupovic, K. Kubota, I.V. Kuzmin, L. Laenen, A.J. Lambert, J. Li, J.-M. Li, F. Lieffrig, I.S. Lukashevich, D. Luo, P. Maes, M. Marklewitz, S.H. Marshall, S.-Y.L. Marzano, J.W. McCauley, A. Mirazimi, P.G. Mohr, N.J.G. Moody, Y. Morita, R.N. Morrison, E. Mühlberger, R. Naidu, T. Natsuaki, J.A. Navarro, Y. Neriya, S.V. Netesov, G. Neumann, N. Nowotny, F. Ochoa-Corona, G. Palacios, L. Pallandre, V. Pallás, A. Papa, S. Paraskevopoulou, C.R. Parrish, A. Pauvolid-Correa, J.T. Paweska, D.R. Perez, F. Pfaff, R.K. Plemper, T.S. Postler, F. Pozet, S.R. Radoshitzky, P.L. Ramos-Gonzalez, M. Rehanek, R.O. Resende, C.A. Reyes, V. Romanowski, D. Rubbenstroth, L. Rubino, A. Rumbou, J.A. Runstadler, M. Rupp, S. Sabanadzovic, T. Sasaya, H. Schmidt-Posthaus, M. Schwemmle, T. Seuberlich, S.R. Sharpe, M. Shi, M. Sironi, S. Smither, J.-W. Song, K.M. Spann, J.R. Spengler, M.D. Stenglein, A. Takada, R.B. Tesh, J. Tesikova, N.J. Thornburg, N.D. Tischler, Y. Tomitaka, K. Tomonaga, N. Tordo, K. Tsunekawa, M. Turina, I.E. Tzanetakis, A.M. Vaira, b. van den Hoogen, B. Vanmechelen, N. Vasilakis, M. Verbeek, S. von Bargen, J. Wada, V. Wahl, P.J. Walker, A.E. Whitfield, J.V. Williams, Y.I. Wolf, J. Yamasaki, H. Yanagisawa, G. Ye, Y.-Z. Zhang, and A.L. Okland. 2022. 2022 taxonomic update of phylum *Negarnaviricota* (*Riboviria*: *Orthornavirae*), including the large orders *Bunyavirales* and *Mononegavirales*. *Arch Virol* 167:2857-2906.

Kydyshov, K., N. Usenbaev, S. Berdiev, A. Dzhaparova, A. Abidova, N. Kebekbaeva, M. Abdyraev, G. Wareth, H. Brangsch, F. Melzer, H. Neubauer, and M.W. Pletz. 2022. First record of the human infection of *Brucella melitensis* in Kyrgyzstan: evidence from whole-genome sequencing-based analysis. *Infect Dis Poverty* 11:120.

Kydyshov, K., N. Usenbaev, A. Sharshenbekov, N. Aitkuluev, M. Abdyraev, S. Chegirov, J. Kazybaeva, H. Brangsch, F. Melzer, H. Neubauer, and M.W. Pletz. 2022. Brucellosis in Humans and Animals in Kyrgyzstan. *Microorganisms* 10:1293.

Lahrssen-Wiederholt, M., H. Schafft, G. Pieper, I. Rottenberger, J. Höcherl, C. Schyma, M. Marahrens, A. Schröder, and E. Ulbig. 2022. Report on the technical discussion “Methods of detection of bullet fragments and measurement methods for the description of a reliable killing effect in simulants”. *J Verbrauch Lebensm J Consum Food Saf* 17:279-284.

Lamberga, K., F. Ardelean, S. Blome, P. Busauskas, B. Djuric, A. Globig, V. Guberti, A. Miteva, E. Oļševskis, M. Seržants, A. Viltrop, L. Zani, A. Zdravkova, and K. Depner. 2022. African Swine Fever Outbreak Investigations—The Significance of Disease-Related Anecdotal Information Coming from Laypersons. *Pathogens* 11:702.

Lamberga, K., K. Depner, L. Zani, E. Oļševskis, M. Seržants, A. Santa, Ž. Šteingolde, A. Bērziņš, A. Viltrop, S. Blome, and A. Globig. 2022. A practical guide for strategic and efficient sampling in African swine fever affected pig farms. *Transbound Emerg Dis* 69:e2408-e2417.



Le Bideau, M., G.A. Pires de Souza, C. Boschi, J.-P. Baudoin, G. Penant, P. Jardot, F. Fenollar, P. Colson, M. Lenk, and B. La Scola. 2022. Limited permissivity of ENL-R and Mv-1-Lu mink cell lines to SARS-CoV-2. *Front Microbiol* 13:1003824.

Li, B., S. Zheng, Y. Wang, Q. Wang, Y. Li, J. Yin, Y. Ren, C. Shi, Z. Zhao, Z. Jiang, S.M. Bergmann, and W. Zeng. 2022. Susceptibilities of ten fish cell lines to infection with Tilapia lake virus. *Microb Pathog* 166:105510.

Liebler-Tenorio, E.M., J. Heyl, N. Wedlich, J. Figl, H. Köhler, G. Krishnamoorthy, N.E. Nieuwenhuizen, L. Grode, S.H.E. Kaufmann, and C. Menge. 2022. Vaccine-Induced Subcutaneous Granulomas in Goats Reflect Differences in Host-MycoBacterium Interactions between BCG- and Recombinant BCG-Derivative Vaccines. *Int J Mol Sci* 23:10992.

Liesche-Starnecker, F., M. Schifferer, J. Schlegel, Y. Vollmuth, D. Rubbenstroth, C. Delbridge, J. Gempt, S. Lorenzl, L. Schnurbus, T. Misgeld, M. Rosati, M. Beer, K. Matiassek, S. Wunderlich, and T. Finck. 2022. Hemorrhagic lesion with detection of infected endothelial cells in human bornavirus encephalitis. *Acta Neuropathol* 144:377-379.

Lopez de Abechuco, E., F. Dórea, T. Buschhardt, N. Scaccia, T. Günther, A. Foddai, J. Dups-Bergmann, and M. Filter. 2022. One Health Consensus Report Annotation Checklist (OH-CRAC): A cross-sector checklist to support harmonized annotation of surveillance data in reports. *Zoonoses Public Health* 69:606-614.

Lv, Y., Y. Wang, Q. Wang, Y. Li, J. Yin, G. Yang, C. Shi, B. Li, Y. Wang, S.M. Bergmann, and W. Zeng. 2022. Development and characterization of a new cell line from brain tissues of the rare minnow (*Gobiocypris rarus*). *Aquacult Res* 53:1727-1738.

Madouasse, A., M. Mercat, A. van Roon, D. Graham, M. Guelbenzu, I. Santman Berends, G. van Schaik, M. Nielen, J. Frössling, E. Ågren, R. Humphry, J. Eze, G. Gunn, M.K. Henry, J. Gethmann, S.J. More, N. Toft, and C. Fourichon. 2022. A modelling framework for the prediction of the herd-level probability of infection from longitudinal data. *Peer Comm J* 2:e4.

Magouras, I., A. Schoster, N. Fouché, V. Gerber, M.H. Groschup, U. Ziegler, R. Fricker, C. Griot, and A. Vöglin. 2022. Neurological disease suspected to be caused by tick-borne encephalitis virus infection in 6 horses in Switzerland. *J Vet Intern Med* 36:2254-2262.

Malakauskas, A., K. Schulz, I. Kukanauskaitė, M. Masiulis, F.J. Conraths, and C. Sauter-Louis. 2022. African Swine Fever Outbreaks in Lithuanian Domestic Pigs in 2019. *Animals* 12:115.

Malchow, J., B.K. Eusemann, S. Petow, E.T. Krause, and L. Schrader. 2022. Productive performance, perching behavior, keel bone and other health aspects in dual-purpose compared to conventional laying hens. *Poultry Sci* 101:102095.

Mankertz, A., M.-H. Chen, T.L. Goldberg, J.M. Hübschen, F. Pfaff, R.G. Ulrich, and ICTV Report Consortium. 2022. ICTV Virus Taxonomy Profile: *Matonaviridae* 2022. *J Gen Virol* 103:001817.

Mason, B., K.J. Petrzalkova, J. Kreisinger, T. Bohm, B. Cervena, E. Fairet, T. Fuh, A. Gomez, S. Knauf, U. Maloueki, D. Modry, M.H. Shirley, N. Tagg, N. Wangué, and B. Pafco. 2022. Gastrointestinal symbiont diversity in wild gorilla: a comparison of bacterial and strongyloid communities across multiple localities. *Mol Ecol* 31:4127-4145.

Matthaei, M.O., S.U. Kononov, J. Rehage, G. Szura, I. Leiter, K. Hansen, S. Dänicke, D. von Soosten, S. Kersten, U. Meyer, and M.R. Wilkens. 2022. Does bone mobilization interfere with energy metabolism in transition cows? *JDS Commun* 3:451-455.

McKenzie, D.R., R. Hart, N. Bah, D.S. Ushakov, M. Muñoz-Ruiz, R. Feederle, and A.C. Hayday. 2022. Normality sensing licenses local T cells for innate-like tissue surveillance. *Nat Immunol* 23:411-422.

- Meissner, K., C. Sauter-Louis, S.E. Heiden, K. Schaufler, H. Tomaso, F.J. Conraths, and T. Homeier-Bachmann. 2022. Extended-Spectrum  $\beta$ -Lactamase-Producing *Escherichia coli* in Conventional and Organic Pig Fattening Farms. *Microorganisms* 10:603.
- Meister, T.L. Y. Brüggemann, M.K. Nocke, R.G. Ulrich, J. Schuhenn, K. Sutter, A. Gömer, V. Bader, K.F. Winklhofer, R. Broering, L. Verhoye, P. Meuleman, F.W.R. Vondran, C. Camuzet, L. Cocquerel, D. Todt, and E. Steinmann. 2022. A ribavirin-induced ORF2 single-nucleotide variant produces defective hepatitis E virus particles with immune decoy function. *Proc Natl Acad Sci USA* 119:e2202653119.
- Mehlhorn, J., A. Höhne, U. Baulain, L. Schrader, S. Weigend, and S. Petow. 2022. Estradiol-17 $\beta$  is influenced by age, housing system and laying performance in genetically divergent laying hens (*Gallus gallus* f.d.). *Front Physiol* 13:954399.
- Menegon, M., A. Tomazatos, F. Severini, D.A. Raele, T. Lilja, D. Werner, D. Boccolini, L. Toma, I. Vasco, R. Lühken, H. Kampen, M.A. Cafiero, and M. Di Luca. 2022. Molecular Characterization of *Anopheles algeriensis* Theobald, 1903 (Diptera: Culicidae) Populations from Europe. *Pathogens* 11:990.
- Meßmer, C., D. Rubbenstroth, L. Mohr, E. Peus, T. Schreiber, and S. Rautenschlein. 2022. Pigeon Rotavirus A as the cause of systemic infection in juvenile pigeons (young pigeon disease). *Tierärztl Prax Ausg K* 50:293-301.
- Michaelis, S., A. Schubbert, D. Gieseke, K. Cimer, R. Zapf, S. Rauterberg, S. March, J. Brinkmann, U. Schultheiß, and U. Knierim. 2022. A comparison of online and live training of livestock farmers for an on-farm self-assessment of animal welfare. *Front Anim Sci* 3:915708.
- Michaely, L.M., M. Rissmann, F. Armando, F. von Arnim, M. Keller, M. Eiden, R. König, B. Gutjahr, W. Baumgärtner, M.H. Groschup, and R. Ulrich. 2022. Rift Valley Fever Virus Non-Structural Protein S Is Associated with Nuclear Translocation of Active Caspase-3 and Inclusion Body Formation. *Viruses* 14:2487.
- Michaely, L.M., M. Rissmann, M. Keller, R. König, F. von Arnim, M. Eiden, K. Rohn, W. Baumgärtner, M. Groschup, and R. Ulrich. 2022. NSG-Mice Reveal the Importance of a Functional Innate and Adaptive Immune Response to Overcome RVFV Infection. *Viruses* 14:350.
- Michalik, S., F. Siegerist, R. Palankar, K. Franzke, M. Schindler, A. Reder, U. Seifert, C. Cammann, J. Wesche, L. Steil, C. Hentschker, M. Gesell-Salazar, E. Reisinger, M. Beer, N. Endlich, A. Greinacher, and U. Völker. 2022. Comparative analysis of ChAdOx1 nCoV-19 and Ad26.COV2.S SARS-CoV-2 vector vaccines. *Haematologica* 107:947-957.
- Michel, V., J. Berk, N. Bozakova, J. van der Eijk, I. Estevez, T. Mircheva, R. Relic, T.B. Rodenburg, E.N. Sossidou, and M. Guinebretière. 2022. The Relationships between Damaging Behaviours and Health in Laying Hens. *Animals* 12:986.
- Milovanović, M., K. Dietze, S. Joseph, U. Wernery, A. Kumar, J. Kinne, N.G. Patteril, and B. Hoffmann. 2022. The Experimental Infection of Goats with Small Ruminant Morbillivirus Originated from Barbary Sheep. *Pathogens* 11:991.
- Mindus, C., N. van Staaveren, D. Fuchs, J.M. Gostner, J.B. Kjaer, W.A. Kunze, F.M. Mian, A.K. Shoveller, P. Forsythe, and A. Harlander-Matauschek. 2022. Regulatory T Cell Modulation by *Lactobacillus rhamnosus* Improves Feather Damage in Chickens. *Front Vet Sci* 9:855261.
- Miranda, M.Á., C. Barceló, D. Arnoldi, X. Augsten, K. Bakran-Lebl, G. Balatsos, M. Bengoa, P. Bindler, K. Boršova, M. Bourquia, D. Bravo-Barriga, V. Čabanová, B. Caputo, M. Christou, S. Delacour, R. Eritja, O. Fassi-Fihri, M. Ferraguti, E. Flacio, E. Frontera, H.P. Fuehrer, A.L. García-Pérez, P. Georgiades, S. Gewehr, F. Goiri, M.A. González, M. Gschwind, R. Gutiérrez-Lopez, C. Horváth, A. Ibáñez-Justicia, V. Jani, P. Kadriaj, K. Kalan, M. Kavran, A. Klobucar, K. Kurucz, J. Lucientes, R. Lühken, S. Magallanes, G. Marini, A.F. Martinou, A. Michelutti, A.D. Mihalca, T. Montalvo, F. Montarsi, S. Mourelatos, N. Muja-Bajraktari, P. Müller, G. Notarides, H.C. Osório, J.A.

Oteo, K. Oter, I. Pajović, J.R.B. Palmer, S. Petrinic, C. Răileanu, C. Ries, E. Rogozi, I. Ruiz-Arrondo, I. Sanpera-Calbet, N. Sekulić, K. Sevim, K. Sherifi, C. Silaghi, M. Silva, N. Sokolovska, Z. Soltész, T. Sulesco, J. Šušnjar, S. Teekema, A. Valsecchi, M.I. Vasquez, E. Velo, A. Michaelakis, W. Wint, P. Dušan, F. Schaffner, and A. della Torre. 2022. AIMSurg: First pan-European harmonized surveillance of *Aedes* invasive mosquito species of relevance for human vector-borne diseases. *Gigabyte* 2022:1-13, doi:10.46471/gigabyte.57.

Mittler, E., A.Z. Wec, J. Tynell, P. Guardado-Calvo, J. Wigren-Byström, L.C. Polanco, C.M. O'Brien, M.M. Slough, D.M. Abelson, A. Serris, M. Sakharkar, G. Pehau-Arnaudet, R.R. Bakken, J.C. Geoghegan, R.K. Jangra, M. Keller, L. Zeitlin, O. Vapalahti, R.G. Ulrich, Z.A. Bornholdt, C. Ahlm, F.A. Rey, J.M. Dye, S.B. Bradfute, T. Strandin, A.S. Herbert, M.N.E. Forsell, L.M. Walker, and K. Chandran. 2022. Human antibody recognizing a quaternary epitope in the Puumala virus glycoprotein provides broad protection against orthohantaviruses. *Sci Transl Med* 14:eabl5399.

Moawad, A.A., H. Hotzel, H.M. Hafez, H. Ramadan, H. Tomaso, S.D. Braun, R. Ehricht, C. Diezel, D. Gary, I. Engelmann, I.M. Zakaria, R.M. Reda, S. Eid, M.A. Shahien, H. Neubauer, and S. Monecke. 2022. Occurrence, Phenotypic and Molecular Characteristics of Extended-Spectrum Beta-Lactamase-Producing *Escherichia coli* in Healthy Turkeys in Northern Egypt. *Antibiotics* 11:1075.

Mohanta, S.K., L. Peng, Y. Li, S. Lu, T. Sun, L. Carnevale, M. Perrotta, Z. Ma, B. Förstera, K. Stanic, C. Zhang, X. Zhang, P. Szczepaniak, M. Bianchini, B.R. Saeed, R. Carnevale, D. Hu, R. Nosalski, F. Pallante, M. Beer, D. Santovito, A. Ertürk, T.C. Mettenleiter, B.G. Klupp, R.T.A. Megens, S. Steffens, J. Pelisek, H.-H. Eckstein, R. Kleemann, L. Habenicht, Z. Mallat, J.-B. Michel, J. Bernhagen, M. Dichgans, G. D'Agostino, T.J. Guzik, P.S. Olofsson, C. Yin, C. Weber, G. Lembo, D. Carnevale, and A.J.R. Habenicht. 2022. Neuroimmune cardiovascular interfaces control atherosclerosis. *Nature* 605:152-159.

Möller, R., K. Kaiser, U. Baulain, B. Petersen, C. Detering, M. Ekhlesi-Hundrieser, C. Pfarrer, M. von Depka Prondzinski, and S. Lehner. 2022. Influence of Von Willebrand Disease (VWD) and pregnancy on the expression of angiogenic factors in the porcine female reproductive tract. *Reprod Biol* 22:100700.

Monaghan, S.J., D. Chee, A. Adams, S.M. Bergmann, S.M. Chong, J. Chen, and K.D. Thompson. 2022. Serological analysis of historical field samples reveals major inconsistency between PCR and antibody ELISA for establishing KHV infection status of groups and individual koi. *Aquaculture* 546:737336.

Monecke, S., M.C. Roberts, S.D. Braun, C. Diezel, E. Müller, M. Reinicke, J. Linde, P.R. Joshi, S. Paudel, M. Acharya, M.K. Chalise, A.T. Feßler, H. Hotzel, L. Khanal, N.P. Koju, S. Schwarz, R.C. Kyes, and R. Ehricht. 2022. Sequence Analysis of Novel *Staphylococcus aureus* Lineages from Wild and Captive Macaques. *Int J Mol Sci* 19:11225.

Monecke, S., F. Schaumburg, A.O. Shittu, S.P. Schwarz, K. Mühldorfer, C. Brandt, S. Braun, M. Collatz, C. Diezel, D. Gawlik, D. Hanke, H. Hotzel, E. Müller, M. Reinicke, A.T. Feßler, and R. Ehricht. 2022. Description of staphylococcal strains from Straw-coloured fruit bat (*Eidolon helvum*) and Diamond firetail (*Stagonopleura guttata*) and a review of their phylogenetic relationships to other staphylococci. *Front Cell Infect Microbiol* 12:878137.

Montero, R., J.T.H. Chan, B. Köllner, R. Kuchta, J. Vysloužil, P. Podhorec, A.S. Holzer, and T. Korytář. 2022. The Acute Immune Responses of the Common Carp *Cyprinus carpio* to PLGA Microparticles—The Interactions of a Teleost Fish with a Foreign Material. *Biomolecules* 12:326.

Montero, R., J.T.H. Chan, C. Müller, P.N. Just, S. Ostermann, M. Øverland, K. Maisey, T. Korytář, and B. Köllner. 2022. Variations in Rainbow Trout Immune Responses against *A. salmonicida*: Evidence of an Internal Seasonal Clock in *Oncorhynchus mykiss*. *Biology* 11:174.

Moore, T., J.M. Williams, M.A. Becerra-Rodriguez, M. Dunne, R. Kammerer, and G. Dveksler. 2022. Pregnancy-specific glycoproteins: evolution, expression, functions, and disease associations. *Reproduction* 163:R11-R23.

Morozov, A., A. Tischenkov, C. Silaghi, A. Proka, I. Toderas, A. Movila, H. Frickmann, and S. Poppert. 2022. Prevalence of Bacterial and Protozoan Pathogens in Ticks Collected from Birds in the Republic of Moldova. *Microorganisms* 10:1111.

Moskalenko, L., K. Schulz, K. Mõtus, and A. Viltrop. 2022. Pigkeepers' knowledge and perceptions regarding African Swine Fever and the control measures in Estonia. *Prev Vet Med* 208:105717.

Muñoz-Fontela, C., L. Widerspick, R.A. Albrecht, M. Beer, M.W. Carroll, E. de Wit, M.S. Diamond, W.E. Dowling, S.G.P. Funnell, A. García-Sastre, N.M. Gerhards, R. de Jong, V.J. Munster, J. Neyts, S. Perlman, D.S. Reed, J.A. Richt, X. Riveros-Balta, C.J. Roy, F.J. Salguero, M. Schotsaert, L.M. Schwartz, R.A. Seder, J. Segalés, S.S. Vasan, A.M. Henao-Restrepo, and D.H. Barouch. 2022. Advances and gaps in SARS-CoV-2 infection models. *PLoS Pathog* 18:e1010161.

Muñoz-Tamayo, R., B.L. Nielsen, M. Gagaoua, F. Gondret, E.T. Krause, D.P. Morgavi, I.A.S. Olsson, M. Pastell, M. Taghipoor, L. Tedeschi, I. Veissier, and C. Nawroth. 2022. Seven steps to enhance open science practices in animal science. *PNAS Nexus* 1:pgac106.

Naguib, M.M., D. Höper, M.F. Elkady, M.A. Afifi, A. Erfan, H.H. Abozeid, W.M. Hasan, A.-S. Arafa, M. Shahein, M. Beer, T.C. Harder, and C. Grund. 2022. Comparison of genomic and antigenic properties of Newcastle Disease virus genotypes II, XXI and VII from Egypt do not point to antigenic drift as selection marker. *Transbound Emerg Dis* 69:849-863.

Nasir, A., M.K. Saleemi, M.Z. Khan, A. Khatoon, Z. UIHassan, Z. ul Abidin, W. Ahmad, S.A. Bhatti, M.M. Khan, T. Jamil, Z. Fatima, I. Ahmed, and A. Khan. 2022. Effects of hydrated sodium calcium aluminum silicates (HSCAS) in experimentally induced cadmium toxicity in male Japanese quail (*Coturnix japonica*). *Toxin Rev* 41:743-751.

Nawroth, C., and E.T. Krause. 2022. The academic, societal and animal welfare benefits of Open Science for animal science. *Front Vet Sci* 9:810989.

Neuhaus, H., R. Pund, M. Runge, D.W. Kleingeld, E. Nardy, and U. Fischer. 2022. First report of White Spot Syndrome Virus (WSSV) DNA in red swamp crayfish (*Procambarus clarkii*) in Germany. *Bull Eur Assoc Fish Pathol* 41:244-254.

Neumann, B., K. Angstwurm, R.A. Linker, G. Knoll, L. Eidenschink, D. Rubbenstroth, K. Schlottau, M. Beer, P. Schreiner, E. Soutschek, M.M. Böhmer, B.M.J. Lampl, M. Pregler, A. Scheiter, K. Evert, S. Zoubaa, M.J. Riemenschneider, B. Asbach, A. Gessner, H.H. Niller, B. Schmidt, and M. Bauswein. 2022. Antibodies against viral nucleo-, phospho-, and X protein contribute to serological diagnosis of fatal Borna disease virus 1 infections. *Cell Rep Med* 3:100499.

Olesen, A.S., T.B. Rasmussen, S.S. Nielsen, G.J. Belsham, A. Boklund, T. Ploegaert, B. Moonen-Leusen, S. Blome, and A. Bøtner. 2022. A Multi-Laboratory Comparison of Methods for Detection and Quantification of African Swine Fever Virus. *Pathogens* 11:325.

One Health High-Level Expert Panel (OHHLEP), W.B. Adisasmito, S. Almuhaire, C.B. Behravesh, P. Bilivogui, S.A. Bukachi, N. Casas, N. Cediell Becerra, D.F. Charron, A. Chaudhary, J.R. Ciacci Zanella, A.A. Cunningham, O. Dar, N. Debnath, B. Dungu, E. Farag, G.F. Gao, D.T.S. Hayman, M. Khaitsa, M.P.G. Koopmans, C. Machalaba, J.S. Mackenzie, W. Markotter, T.C. Mettenleiter, S. Morand, V. Smolenskiy, and L. Zhou. 2022. One Health: A new definition for a sustainable and healthy future. *PLoS Pathog* 18:e1010537.

Paciência, F.M.D., I.S. Chuma, I.F. Lipende, S. Knauf, and D. Zinner. 2022. Female post-copulatory behavior in a group of olive baboons (*Papio anubis*) infected by *Treponema pallidum*. *PLoS one* 17:e0261894.

Parvin, R., E.H. Chowdhury, M.T. Islam, J. Ara Begum, M. Nooruzzaman, A. Globig, K. Dietze, B. Hoffmann, and E. Tuppurainen. 2022. Clinical Epidemiology, Pathology, and Molecular Investigation of Lumpy Skin Disease Outbreaks in Bangladesh during 2020-2021 Indicate the Re-Emergence of an Old African Strain. *Viruses* 14:2529.

- Parys, A., E. Vandoorn, K. Chiers, K. Passvogel, W. Fuchs, T.C. Mettenleiter, and K. van Reeth.** 2022. Exploring Prime-Boost Vaccination Regimens with Different H1N1 Swine Influenza A Virus Strains and Vaccine Platforms. *Vaccines* **10**:1826.
- Paslaru, A.I., L.M. Maurer, A. Vöggtlin, B. Hoffmann, P.R. Torgerson, A. Mathis, and E. Veronesi.** 2022. Putative roles of mosquitoes (Culicidae) and biting midges (*Culicoides* spp.) as mechanical or biological vectors of lumpy skin disease virus. *Med Vet Entomol* **36**:381-389.
- Patt, A., I. Halle, A. Dudde, A. Olbrich, J. Sieburg-Rockel, and E.T. Krause.** 2022. Influence of different dietary fibre contents in the diet on feather pecking, locomotor activity and performance of laying hens. *Br Poult Sci* **63**:571-580.
- Pavulraj, S., K. Pannhorst, R.W. Stout, D.B. Paulsen, M. Carossino, D. Meyer, P. Becher, and S.I. Chowdhury.** 2022. A Triple Gene-Deleted Pseudorabies Virus-Vectored Subunit PCV2b and CSFV Vaccine Protects Pigs against PCV2b Challenge and Induces Serum Neutralizing Antibody Response against CSFV. *Vaccines* **10**:305.
- Paxton, R.J., M.O. Schäfer, F. Nazzi, V. Zanni, D. Annoscia, F. Marroni, D. Bigot, E.R. Laws-Quinn, D. Panziera, C. Jenkins, and H. Shafiey.** 2022. Epidemiology of a major honey bee pathogen, deformed wing virus: Potential worldwide replacement of genotype A by genotype B. *Int J Parasitol-Parasit Wildl* **18**:157-171.
- Penrith, M.-L., K. Depner, F. Jori, M. Dione, R.G. Alders, and E. Chenais.** 2022. Editorial: African Swine Fever in Smallholder and Traditional Pig Farming Systems: Research, Challenges and Solutions. *Front Vet Sci* **9**:878928.
- Pernat, N., J. Zscheischler, H. Kampen, E.-F. Ostermann-Miyashita, J.M. Jeschke, and D. Werner.** 2022. How media presence triggers participation in citizen science - The case of the mosquito monitoring project 'Mückenatlas'. *PLoS one* **17**:e0162850.
- Peters, M., J. King, P. Wohlsein, C. Grund, and T. Harder.** 2022. Genuine lethal infection of a wood pigeon (*Columba palumbus*) with high pathogenicity avian influenza H5N1, clade 2.3.4.4b, in Germany, 2022. *Vet Microbiol* **270**:109461.
- Peters, M., P. Wohlsein, C. Osmann, I. Moser, and S.A. Barth.** 2022. Disseminated atypical Mycobacteriosis caused by *Mycobacterium xenopi* in a White-Faced Saki (*Pithecia pithecia*). *Berl Münch Tierärztl Wschr* **135**, doi:10.2376/1439-0299-2021-24.
- Petric, P.P., J. King, L. Graf, A. Pohlmann, M. Beer, and M. Schwemmler.** 2022. Increased Polymerase Activity of Zoonotic H7N9 Allows Partial Escape from MxA. *Viruses* **14**:2331.
- Pfaff, F., A. Breithaupt, D. Rubbenstroth, S. Nippert, C. Baumbach, S. Gerst, C. Langner, C. Wylezich, A. Ebinger, D. Höper, R.G. Ulrich, and M. Beer.** 2022. Revisiting Rustrela Virus: New Cases of Encephalitis and a Solution to the Capsid Enigma. *Microbiol Spectr* **10**:e0010322.
- Pfaff, F., D. Hoffmann, and M. Beer.** 2022. Monkeypox genomic surveillance will challenge lessons learned from SARS-CoV-2 (Correspondence). *The Lancet* **400**:22-23.
- Pickin, M., S. Devignot, F. Weber, and M.H. Groschup.** 2022. Comparison of Crimean-Congo Hemorrhagic Fever Virus and Aigai Virus in Life Cycle Modeling Systems Reveals a Difference in L Protein Activity. *J Virol* **96**:e0059922.
- Pickrodt, C., K. Donat, U. Moog, and H. Köhler.** 2022. Analysis of Colostrum and Udder Skin Swabs from a Dairy Goat Herd in Germany regarding the Occurrence of *Mycobacterium avium* Subsp. *paratuberculosis*. *Animals* **12**:1779.
- Pikalo, J., T. Carrau, P. Deutschmann, M. Fischer, K. Schlottau, M. Beer, and S. Blome.** 2022. Performance Characteristics of Real-Time PCRs for African Swine Fever Virus Genome Detection—Comparison of Twelve Kits to an OIE-Recommended Method. *Viruses* **14**:220.

**Pikalo, J., L. Porfiri, H. Roszyk, K. Pannhorst, R.T. Kangethe, V. Wijewardana, J. Sehl-Ewert, M. Beer, G. Cattoli, and S. Blome.** 2022. Vaccination with a gamma irradiation-inactivated African swine fever virus is safe but does not protect against a challenge. *Front Immunol* **13**:832264.

**Pinho dos Reis, V., M. Keller, K. Schmidt, R.G. Ulrich, and M.H. Groschup.** 2022.  $\alpha$ V $\beta$ 3 Integrin Expression Is Essential for Replication of Mosquito and Tick-Borne Flaviviruses in Murine Fibroblast Cells. *Viruses* **14**:18.

**Pires, R.H., T.H. Dau, E. Manu, N. Shree, and O. Otto.** 2022. Switching in the expression pattern of actin isoforms marks the onset of contractility and distinct mechanodynamic behavior during cardiomyocyte differentiation. *Physiol Rep* **10**:e15171.

**Pogány, Á., E.T. Krause, O. Roth, and V. Bókonyi.** 2022. Editorial: The Development and Fitness Consequences of Sex Roles. *Front Ecol Evol* **10**:912520.

**Pohlmann, A., J. King, A. Fusaro, B. Zecchin, A.C. Banyard, I.H. Brown, A.M.P. Byrne, N. Beerens, Y. Liang, R. Heutink, F. Harders, J. James, S.M. Reid, R.D.E. Hansen, N.S. Lewis, C. Hjulsgaard, L.E. Larsen, S. Zohari, K. Anderson, C. Bröjer, A. Nagy, V. Savič, S. van Borm, M. Steensels, F.-X. Briand, E. Swieton, K. Smietanka, C. Grund, M. Beer, and T. Harder.** 2022. Has Epizootic Become Enzootic? Evidence for a Fundamental Change in the Infection Dynamics of Highly Pathogenic Avian Influenza in Europe, 2021. *mBio* **13**:e00609-22.

**Postel, A., J. King, F.K. Kaiser, J. Kennedy, M.S. Lombardo, W. Reineking, M. de le Roi, T. Harder, A. Pohlmann, T. Gerlach, G. Rimmelzwaan, S. Rohner, L.C. Striewe, S. Gross, L.A. Schick, J.C. Klink, K. Kramer, A.D.M.E. Osterhaus, M. Beer, W. Baumgärtner, U. Siebert, and P. Becher.** 2022. Infections with highly pathogenic avian influenza A virus (HPAIV) H5N8 in harbor seals at the German North Sea coast, 2021. *Emerg Microbes Infect* **11**:725-729.

**Priemer, G., F. Cierniak, C. Wolf, R.G. Ulrich, M.H. Groschup, and M. Eiden.** 2022. Co-Circulation of Different Hepatitis E Virus Genotype 3 Subtypes in Pigs and Wild Boar in North-East Germany, 2019. *Pathogens* **11**:773.

**Princk, C., S. Drewes, K.M. Meyer-Schlinkmann, M. Saathoff, F. Binder, J. Freise, B. Tenner, S. Weiss, J. Hofmann, J. Esser, M. Runge, J. Jacob, R.G. Ulrich, and J. Dreesman.** 2022. Cluster of human *Puumala orthohantavirus* infections due to indoor exposure?—An interdisciplinary outbreak investigation. *Zoonoses Publ Health* **69**:579-586.

**Purdy, M.A., J.F. Drexler, X.-J. Meng, H. Norder, H. Okamoto, W.H.M. van der Poel, G. Reuter, W.M. de Souza, R.G. Ulrich, D.B. Smith, and ICTV Report Consortium.** 2022. ICTV Virus Taxonomy Profile: *Hepeviridae* 2022 Subscribed. *J Gen Virol* **103**:001778.

**Quadratullah, G. Muhammad, T. Jamil, I. Rashid, Q. Ullah, and M. Saqib.** 2022. Efficacy Evaluation of a Combined Hemorrhagic Septicemia-Mastitis Vaccine in Dairy Cows and Buffaloes. *Animals* **12**:706.

**Rahman, M.M., S.M. Salahuddin Islam, M.S. Rahman, A.K.M.A. Rahman, M.A. Islam, R.R. Sarker, S.M. Sadia Afrinn, H. Neubauer, and T. Jamil.** 2023. Brucellosis knowledge, awareness and practices among military dairy farm workers in Bangladesh. *J Vet Med OH Res* **4**:21-32.

**Răileanu, C., O. Tauchmann, and C. Silaghi.** 2022. Sympatric occurrence of *Ixodes ricinus* with *Dermacentor reticulatus* and *Haemaphysalis concinna* and the associated tick-borne pathogens near the German Baltic coast. *Parasite Vector* **15**:65.

**Ran, W., J. Schön, K. Ciminski, J. Kraft, S. Kessler, S. Euchner, D. Hoffmann, A. Pohlmann, M. Beer, M. Schwemmle, and S. Giese.** 2022. Generation of an Attenuated Chimeric Bat Influenza A Virus Live-Vaccine Prototype. *Microbiol Spect* **10**:e0142422.

**Rau, J., D. Werner, M. Beer, D. Höper, and H. Kampen.** 2022. The microbial RNA metagenome of *Aedes albopictus* (Diptera: Culicidae) from Germany. *Parasitol Res* **121**:2587-2599.

Rauch, J., J.F. Steffen, B. Muntau, J. Gisbrecht, K. Pörtner, C. Herden, H.H. Niller, M. Bauswein, D. Rubbenstroth, U. Mehlhoop, P. Allartz, and D. Tappe. 2022. Human Borna disease virus 1 encephalitis shows marked pro-inflammatory biomarker and tissue immunoactivation during the course of disease. *Emerg Microbes Infect* 11:1843-1856.

Reemtsma, H., C.M. Holicki, C. Fast, F. Bergmann, M. Eiden, M.H. Groschup, and U. Ziegler. 2022. Pathogenesis of West Nile Virus Lineage 2 in Domestic Geese after Experimental Infection. *Viruses* 14:1319.

Rezende-Gondim, M.M., A.V. da Silva, J.P. Dubey, G. Schares, and L.P. Gondim. 2022. Immunomagnetic separation of *Toxoplasma gondii* and *Hammondia* spp. tissue cysts generated in cell culture. *Front Vet Sci* 9:1033380.

Rhazi, H., K. Mikou, Y. Sadeqy, M. Alhayane, S. El Mejdoub, N. Safini, M. Lenk, K.O. Tadlaoui, and M. Elharrak. 2022. Evaluation of ELISA and VNT for sheeppox virus antibody detection and development of an immunoenzymatic quantitative method. *J Immunol Methods* 502:113226.

Ries, C., M. Beer, and B. Hoffmann. 2022. Bluetongue Virus Infection of Goats: Re-Emerged European Serotype 8 vs. Two Atypical Serotypes. *Viruses* 14:1034.

Risalde, M.A., M. Frias, J. Cabellero-Gómez, P. Lopez-Lopez, C. Fast, S. Jiménez-Ruiz, I. Agulló-Ros, M. Eiden, D. Jiménez-Martín, I. García-Bocanegra, A. Rivero, J.C. Gómez Villamandos, and A. Rivero-Juarez. 2022. Presence of hepatitis E virus in testis of naturally infected wild boars. *Transbound Emerg Dis* 69:3317-3324.

Rissmann, M., V. Friedrichs, M. Straube, B. Sadeghi, and A. Balkema-Buschmann. 2022. Baseline of Physiological Body Temperature and Hematological Parameters in Captive *Rousettus aegyptiacus* and *Eidolon helvum* Fruit Bats. *Front Physiol* 13:910157.

Roman-Sosa, G., A. Leske, X. Ficht, T.H. Dau, J. Holzerland, T. Hoenen, M. Beer, R. Kammerer, R. Schirmbeck, F.A. Rey, S.M. Cordo, and A. Groseth. 2022. Immunization with GP1 but Not Core-like Particles Displaying Isolated Receptor-Binding Epitopes Elicits Virus-Neutralizing Antibodies against Junín Virus. *Vaccines* 10:173.

van Roon, A.M., A. Madouasse, N. Toft, I.M.G.A. Santman-Berends, J. Gethmann, J. Eze, R.W. Humphry, D. Graham, M. Guelbenzu-Gonzalo, M. Nielsen, S.J. More, M. Mercat, C. Fourichon, C. Sauter-Louis, J. Frössling, E. Ågren, G.J. Gunn, M.K. Henry, and G. van Schaik. 2022. Output-based Assessment of Herd-level Freedom from Infection in Endemic Situations: Application of a Bayesian Hidden Markov Model. *Prev Vet Med* 204:105662.

Rosenau, S., M. Ciulu, C. Reimer, A.C. Mott, J. Tetens, and D. Mörlein. 2022. Feeding green: *Spirulina (Arthrospira platensis)* induced changes in production performance and quality of salmonid species. *Aquacult Res* 53:4276-4287.

Roszyk, H., K. Franzke, A. Breithaupt, P. Deutschmann, J. Pikalo, T. Carrau, S. Blome, and J. Sehl-Ewert. 2022. The Role of Male Reproductive Organs in the Transmission of African Swine Fever—Implications for Transmission. *Viruses* 14:31.

Roth, N., J. Schön, D. Hoffmann, M. Thran, A. Thess, S.O. Mueller, B. Petsch, and S. Rauch. 2022. Optimised Non-Coding Regions of mRNA SARS-CoV-2 Vaccine CV2CoV Improves Homologous and Heterologous Neutralising Antibody Responses. *Vaccines* 10:1251.

Rubbenstroth, D. 2022. Avian Bornavirus Research—A Comprehensive Review. *Viruses* 14:1513.

Ruckli, A.K., S.J. Hörtenhuber, P. Ferrari, J. Guy, J. Helmerichs, R. Hoste, C. Hubbard, N. Kasperczyk, C. Leeb, A. Malak-Rawlikowska, A. Valros, and S. Dippel. 2022. Integrative Sustainability Analysis of European Pig Farms: Development of a Multi-Criteria Assessment Tool. *Sustainability* 14:5988.

Rückner, A., L. Plagge, K. Heenemann, M. Harzer, B. Thaa, J. Winkler, S. Dänicke, J. Kauffold, and T.W. Vahlenkamp. 2022. The mycotoxin deoxynivalenol (DON) can deteriorate vaccination efficacy against porcine reproductive and respiratory syndrome virus (PRRSV) at subtoxic levels. *Porcine Health Manag* **8**:13.

Rüegg, S.R., N. Antoine-Moussiaux, C. Aenishaenslin, L. Alban, M. Bordier, H. Bennani, B. Schauer, J.-C. Arnold, I. Gabain, C. Sauter-Louis, J. Berezowski, F. Goutard, B. Häsler, and on behalf of the CoEvalAMR consortium. 2022. Guidance for evaluating integrated surveillance of antimicrobial use and resistance. *CABI One Health* [Epub ahead of print; doi:10.1079/cabionehealth.2022.0007]

Rüster, V., H. Werner, S. Wieneke, G. Avramidis, L. ten Bosch, E.T. Krause, C. Strube, and T. Bartels. 2022. Short-time cold atmospheric pressure plasma exposure can kill all life stages of the poultry red mite, *Dermanyssus gallinae*, under laboratory conditions. *Exp Appl Acarol* **88**:139-152.

Saegerman, C., J. Evrard, J.-Y. Houtain, J.-P. Alzieu, J. Bianchini, S.E. Mpouam, G. Schares, E. Liénard, P. Jacquiet, L. Villa, G. Álvarez-García, A.L. Gazzonis, A. Gentile, and L. Delooz. 2022. First Expert Elicitation of Knowledge on Drivers of Emergence of Bovine Besnoitiosis in Europe. *Pathogens* **11**:753.

Salah, K., M. El-Diasty, F.I. El-Hofy, G. Wareth, and A.A. Abd El Tawab. 2022. Case Study: *B. abortus* Outbreak in Egyptian Dairy Farm with a Special Reference to Control Programs. *J Adv Vet Res* **4**:462-465.

Salaheldin, A.H., A.R. Elbestawy, A.M. Abdelkader, H.A. Sultan, A.A. Ibrahim, H.S. Abd El-Hamid, and E.M. Abdelwhab. 2022. Isolation of Genetically Diverse H5N8 Avian Influenza Viruses in Poultry in Egypt, 2019-2021. *Viruses* **14**:1431.

Sandøe, P., H.O. Hansen, B. Forkman, P. van Horne, I.C. de Jong, J.B. Kjær, S.S. Nielsen, C. Palmer, H.L.H. Rhode, and T. Christensen. 2022. Market driven initiatives can improve broiler welfare - A comparison across five European countries based on the Benchmark method. *Poultry Sci* **101**:101806.

Sänger, P.-A., S. Wagner, E. Liebler-Tenorio, and T.M. Fuchs. 2022. Dissecting the invasion of *Galleria mellonella* by *Yersinia enterocolitica* reveals metabolic adaptations and a role of a phage lysis cassette in insect killing. *PLoS Pathog* **18**:e1010991.

Santos, P.D., F. Michel, C. Wylezich, D. Höper, M. Keller, C.M. Holicki, C.A. Szentiks, M. Eiden, A. Muluneh, A. Neubauer-Juric, S. Thalheim, A. Globig, M. Beer, M.H. Groschup, and U. Ziegler. 2022. Co-Infections: Simultaneous Detections of West Nile Virus and Usutu Virus in Birds from Germany. *Transbound Emerg Dis* **69**:776-792.

Sarais, F., R. Montero, S. Ostermann, A. Rebl, B. Köllner, and T. Goldammer. 2022. The Early Immune Response of Lymphoid and Myeloid Head-Kidney Cells of Rainbow Trout (*Oncorhynchus mykiss*) Stimulated with *Aeromonas salmonicida*. *Fishes* **7**:12.

Sauter-Louis, C., K. Schulz, M. Richter, C. Staubach, T.C. Mettenleiter, and F.J. Conraths. 2022. African swine fever: Why the situation in Germany is not comparable to that in the Czech Republic or Belgium. *Transbound Emerg Dis* **69**:2201-2208.

Sazykina, M.A., T.M. Minkina, E.Yu. Konstantinova, L.E. Khmelevtsova, T.N. Azhogina, E.M. Antonenko, Sh.K. Karchava, M.V. Klimova, S.N. Shushkova, E.A. Polienko, O.A. Birukova, S.S. Mandzhieva, E.M. Kudeevskaya, M.I. Khammami, A.V. Rakin, and I.S. Sazykin. 2022. Pollution impact on microbial communities composition in natural and anthropogenically modified soils of Southern Russia. *Microbiol Res* **254**:126913.

Schäfer, A., G. Franzoni, C.L. Netherton, L. Hartmann, S. Blome, and U. Blohm. 2022. Adaptive Cellular Immunity against African Swine Fever Virus Infections. *Pathogens* **11**:274.



- Schäfer, I., C. Silaghi, S. Fischer, C. Marsboom, G. Hendrickx, H. Gehlen, and E. Müller. 2022. Detection of *Anaplasma phagocytophilum* in horses from Germany by molecular and serological testing (2008-2021). *Vet Parasitol* 312:109840.
- Schäfer, M., F. Pfaff, D. Höper, and C. Silaghi. 2022. Early Transcriptional Changes in the Midgut of *Ornithodoros moubata* after Feeding and Infection with *Borrelia duttonii*. *Microorganisms* 10:525.
- Schäfer, M.O., J. Horenk, and C. Wylezich. 2022. Molecular Detection of *Malpighamoeba mellificae* in Honey Bees. *Vet Sci* 9:148.
- Schale, P., A.O. Schmitt, S. Dänicke, J. Kluess, A. Grümpel-Schlüter, and E.F. Arkenau. 2022. Does the Implementation of an Animal Welfare Programme on a Farm Yield a Demonstrable Improvement in Fattening Pig Welfare? *Animals* 12:3337.
- Schares, G., A. Bärwald, M.-A. Vernet, F. Bernard, B. Blanchard, and P. Coppe. 2022. Validation of a commercial version of a competitive enzyme linked immunosorbent assay for the detection of antibodies to *Besnoitia besnoiti*. *Parasite Vector* 15:455.
- Scheibner, D., A. Breithaupt, C. Luttermann, C. Blaurock, T.C. Mettenleiter, and E.M. Abdelwhab. 2022. Genetic Determinants for Virulence and Transmission of the Panzootic Avian Influenza Virus H5N8 Clade 2.3.4.4 in Pekin Ducks. *J Virol* 96:e00149-22.
- Schick, L.A., P. Wohlsein, S. Rautenschlein, A. Jung, J.O. Boyi, G. Glemarec, A.-M. Kroner, S.A. Barth, and U. Siebert. 2022. Health Status of Bycaught Common Eiders (*Somateria mollissima*) from the Western Baltic Sea. *Animals* 12:2002.
- Schilde, M., D. von Soosten, J. Frahm, S. Kersten, U. Meyer, A. Zeyner, and S. Dänicke. 2022. Assessment of Metabolic Adaptations in Periparturient Dairy Cows Provided 3-Nitrooxypropanol and Varying Concentrate Proportions by Using the GreenFeed System for Indirect Calorimetry, Biochemical Blood Parameters and Ultrasonography of Adipose Tissues. *Dairy* 3:100-122.
- Schloer, S., D. Treuherz, A. Faist, M. de Witt, K. Wunderlich, R. Wiewrodt, K. Wiebe, P. Barth, J.-H. Wälzlein, S. Kummer, A. Balkema-Buschmann, S. Ludwig, L. Brunotte, and U. Rescher. 2022. 3D *ex vivo* tissue platforms to investigate the early phases of influenza A virus- and SARS-CoV-2-induced respiratory diseases. *Emerg Microbe Infect* 11:2160-2175.
- Schlottau, K., F. Feldmann, P.W. Hanley, J. Lovaglio, T.-L. Tang-Huau, K. Meade-White, J. Callison, B.N. Williamson, R. Rosenke, D. Long, C. Wylezich, D. Höper, C. Herden, D. Scott, D. Hoffmann, G. Saturday, M. Beer, and H. Feldmann. 2022. Development of a nonhuman primate model for mammalian bornavirus infection. *PNAS Nexus* 1:pgac073.
- Schmidberger, J., J. Uhlenbruck, P. Schlingeloff, P. Maksimov, F.J. Conraths, B. Mayer, and W. Kratzer. 2022. Dog Ownership and Risk for Alveolar Echinococcosis, Germany. *Emerg Infect Dis* 28:1597-1605.
- Schmidt, V., H. Köhler, K. Heenemann, and P. Möbius. 2022. Mycobacteriosis in Various Pet and Wild Birds from Germany: Pathological Findings, Coinfections, and Characterization of Causative Mycobacteria. *Microbiol Spect* 10:e0045222.
- Schulz, A., B. Sadeghi, F. Stoek, J. King, K. Fischer, A. Pohlmann, M. Eiden, and M.H. Groschup. 2022. Whole-Genome Sequencing of Six Neglected Arboviruses Circulating in Africa Using Sequence-Independent Single Primer Amplification (SISPA) and MinION Nanopore Technologies. *Pathogens* 11:1502.
- Schulz, K., E. Oļševskis, A. Viltrop, M. Masiulis, C. Staubach, I. Nurmoja, K. Lamberg, M. Seržants, A. Malakauskas, F.J. Conraths, and C. Sauter-Louis. 2022. Eight Years of African Swine Fever in the Baltic States: Epidemiological Reflections. *Pathogens* 11:711.

Schütz, A.K., E.T. Krause, M. Fischer, T. Müller, C.M. Freuling, F.J. Conraths, T. Homeier-Bachmann, and H.H.K. Lentz. 2022. Computer Vision for Detection of Body Posture and Behavior of Red Foxes. *Animals* 12:233.

Schwarzkopf, S., A. Kinoshita, L. Hüther, L. Salm, S. Kehraus, K.-H. Südekum, K. Huber, S. Dänicke, and J. Frahm. 2022. Weaning age influences indicators of rumen function and development in female Holstein calves. *BMC Vet Res* 18:102.

Sehl-Ewert, J., P. Deutschmann, A. Breithaupt, and S. Blome. 2022. Pathology of African Swine Fever in Wild Boar Carcasses Naturally Infected with German Virus Variants. *Pathogens* 11:1386.

Sehl-Ewert, J., T. Schwaiger, A. Schäfer, J.E. Hölper, B.G. Klupp, J.P. Teifke, U. Blohm, and T.C. Mettenleiter. 2022. Clinical, neuropathological, and immunological short- and long-term feature of a mouse model mimicking human herpes virus encephalitis. *Brain Pathol* 32:e13031.

Siddiqui, M.S.I., A. Globig, B. Hoffmann, M.N. Islam, M.R. Islam, and E.H. Chowdhury. 2022. Cytopathic effect of Vero cells adapted Bangladeshi strain of peste des petits ruminants (PPR) virus in cell culture. *Arch Microbiol* 204:625.

Smreczak, M., A. Orłowska, T. Müller, C.M. Freuling, M. Kawiak-Sadurska, and P. Trębas. 2022. Vaccine-induced rabies in a red fox in Poland. *J Vet Res* 66:473-477.

Sobotta, K., K. Bonkowski, C. Heydel, K. Henning, and C. Menge. 2022. Phenotype of *Coxiella burnetii* Strains of Different Sources and Genotypes in Bovine Mammary Gland Epithelial Cells. *Pathogens* 11:1422.

Söllner, J.-H., H.J. Sake, A. Frenzel, R. Lechler, D. Herrmann, W. Fuchs, and B. Petersen. 2022. *In vitro* genome editing activity of Cas9 in somatic cells after random and transposon-based genomic Cas9 integration. *PLoS one* 17:e0279123.

Stadler, J., S. Junker, J. Gründl, S. Fröhlich, M. Beisl, S. Zöls, M. Ritzmann, M. Eddicks, A. Palzer, J. Sehl, D. Höper, C. Unterweger, A. Ladinig, and C. Mayer. 2022. Hinterhandlähmungen bei Mastschweinen im Zusammenhang mit einem neuen Stamm des porzinen Teschovirus A11. *Tierärztl Prax* 50:59-67.

Stegmann, K.M., A. Dickmanns, N. Heinen, C. Blaurock, T. Karrasch, A. Breithaupt, R. Klopffleisch, N. Uhlig, V. Eberlein, L. Issmail, S.T. Herrmann, A. Schrieck, E. Peelen, H. Kohlhof, B. Sadeghi, A. Riek, J.R. Speakman, U. Groß, D. Görlich, D. Vitt, T. Müller, T. Grunwald, S. Pfaender, A. Balkema-Buschmann, and M. Dobbelsstein. 2022. Inhibitors of dihydroorotate dehydrogenase cooperate with Molnupiravir and N4-hydroxycytidine to suppress SARS-CoV-2 replication. *iScience* 25:104293.

Stoek, F., Y. Barry, A. Ba, A. Schulz, M. Rissmann, C. Wylezich, B. Sadeghi, A.D. Beyit, A. Eisenbarth, F.B. N'diaye, M.L. Haki, B.A. Doumbia, M.B. Gueya, M.Y. Bah, M. Eiden, and M.H. Groschup. 2022. Mosquito survey in Mauritania: Detection of Rift Valley fever virus and dengue virus and the determination of feeding patterns. *PLoS Negl Trop Dis* 16:e0010203.

Stoek, F., M. Rissmann, R. Ulrich, M. Eiden, and M.H. Groschup. 2022. Black rats (*Rattus rattus*) as potential reservoir hosts for Rift Valley fever phlebovirus: experimental infection results in viral replication and shedding without clinical manifestation. *Transbound Emerg Dis* 69:1307-1318.

Stončiūtė, E., A. Malakauskas, F.J. Conraths, M. Masiulis, C. Sauter-Louis, and K. Schulz. 2022. The perceptions of Lithuanian hunters towards African swine fever using a participatory approach. *BMC Vet Res* 18:401.

Tanneberger, F., A. Abd El Wahed, M. Fischer, P. Deutschmann, H. Roszyk, T. Carrau, S. Blome, and U. Truyen. 2022. Efficacy of Liming Forest Soil in the Context of African Swine Fever Virus. *Viruses* 14:734.

Taenzer, J., M. Gehling, F. Klevenhusen, J. Saltzmann, S. Dänicke, and A. These. 2022. Rumen Metabolism of Senecio Pyrrolizidine Alkaloids May Explain Why Cattle Tolerate Higher Doses Than Monogastric Species. *J Agr Food Chem* **70**:10111-10120.

Tröscher-MuBotter, J.B., S. Deusch, D. Borda-Molina, J. Frahm, S. Dänicke, A. Camarinha-Silva, K. Huber, and J. Seifert. 2022. Cow's microbiome from antepartum to postpartum: a long-term study covering two physiological challenges. *Front Microbiol* **13**:1000750.

Troupin, C., I. Ellis, B. Doukouré, A. Camara, M. Keita, M. Kagbadouno, J.-M. Bart, R. Diallo, S. Lacôte, P. Marianneau, M.H. Groschup, and N. Tordo. 2022. Seroprevalence of brucellosis, Q fever and Rift Valley fever in domestic ruminants in Guinea in 2017-2019. *BMC Vet Res* **18**:64.

Tscherne, A., E. Mantel, T. Boskani, S. Budniak, M. Elschner, A. Fasanella, S.L. Feruglio, D. Galante, C.G. Giske, R. Grunow, J. Henczko, C. Hinz, W. Iwaniak, D. Jacob, A. Kedrak-Jablonska, V.K. Jensen, T.B. Johansen, G. Kahlmeter, V. Manzulli, E. Matuschek, F. Melzer, M.S. Nuncio, J. Papaparaskevas, A. Pelerito, M. Solheim, S. Thomann, A. Tsakris, T. Wahab, M. Weiner, L. Zoeller, and S. Zange on behalf of the EMERGE AST Working Group. 2022. Adaptation of *Brucella melitensis* Antimicrobial Susceptibility Testing to the ISO 20776 Standard and Validation of the Method. *Microorganisms* **10**:1470.

Ul Abadeen, Z., M.T. Javed, T. Jamil, and A.A. Nasir. 2022. Ameliorative Effects of Anti-Clostridial Egg Yolk Antibodies (IgYs) in Experimentally-Induced Avian Necrotic Enteritis. *Animals* **12**:1307.

Ullah, Q., T. Jamil, M. Saqib, M. Iqbal, and H. Neubauer. 2022. Q Fever—A Neglected Zoonosis. *Microorganisms* **10**:1530.

Ullah, S., T. Jamil, M. Asif, W. Ahmad, and H. Neubauer. 2022. Brucellosis remains a neglected disease in District Muzaffargarh of Pakistani Punjab: A call for multidisciplinary collaboration. *Ger J Vet Res* **2**:35-38.

Ulrich, L., N.J. Halwe, A. Taddeo, N. Ebert, J. Schön, C. Devisme, B.S. Trüeb, B. Hoffmann, M. Wider, X. Fan, M. Bekliz, M. Essaidi-Laziosi, M.L. Schmidt, D. Niemeyer, V.M. Corman, A. Kraft, A. Godel, L. Laloli, J.N. Kelly, B.M. Calderon, A. Breithaupt, C. Wylezich, I. Berenguer Veiga, M. Gultom, S. Osman, B. Zhou, K. Adea, B. Meyer, C.S. Eberhardt, L. Thomann, M. Gsell, F. Labroussaa, J. Jores, A. Summerfield, C. Drost, I.A. Eckerle, D.E. Wentworth, R. Dijkman, D. Hoffmann, V. Thiel, M. Beer, and C. Benarafa. 2022. Enhanced fitness of SARS-CoV-2 variant of concern Alpha but not Beta. *Nature* **602**:7896.

Unger, N., S. Eiserloh, F. Nowak, S. Zuchantke, E. Liebler-Tenorio, K. Sobotta, C. Schnee, C. Berens, and U. Neugebauer. 2022. Looking Inside Non-Destructively: Label-Free, Raman-Based Visualization of Intracellular *Coxiella burnetii*. *Anal Chem* **94**:4988-4996.

Vasić, A., C. Răileanu, C. Körsten, D. Vojinović, M. Manić, A. Urošević, N. Nikolić, O. Dulović, B.A. Tews, T. Petrović, C. Silaghi, M. Valčić, and A. Gligić. 2022. West Nile Virus in the Republic of Serbia - Diagnostic Performance of Five Serological Tests in Dog and Horse Sera. *Transbound Emerg Dis* **69**:e2506-e2515.

Vlaschenko, A., C. Răileanu, O. Tauchmann, D. Muzyka, V. Bohodist, S. Filatov, O. Rodenko, I. Tovstukha, and C. Silaghi. 2022. First data on bacteria associated with bat ectoparasites collected in Kharkiv oblast, Northeastern Ukraine. *Parasite Vector* **15**:443.

Vojtíšek, J., N. Janssen, S. Šikutová, O. Šebesta, H. Kampen, and I. Rudolf. 2022. Emergence of the invasive Asian bush mosquito *Aedes (Hulecoeteomyia) japonicus* (Theobald, 1901) in the Czech Republic. *Parasite Vector* **15**:250.

Vojtíšek, J., O. Šebesta, S. Šikutová, H. Kampen, and I. Rudolf. 2022. First record of the invasive mosquito species *Aedes koreicus* (Diptera: Culicidae) in the Czech Republic. *Parasitol Res* **121**:3701-3704.

- Voss, A., P. Schlieben, S. Gerst, C. Wylezich, F. Pfaff, C. Langner, M. Niesler, P. Schad, M. Beer, D. Rubbenstroth, A. Breithaupt, and L. Mundhenk. 2022. Rustrela virus infection - An emerging neuropathogen of Red-necked wallabies (*Macropus rufogriseus*). *Transbound Emerg Dis* **69**:4016-4021.
- Waap, H., A. Bärwald, T. Nunes, and G. Schares. 2022. Seroprevalence and Risk Factors for *Toxoplasma gondii* and *Neospora caninum* in Cattle in Portugal. *Animals* **12**:2080.
- Waberski, D., S.S. Suarez, and H. Henning. 2022. Assessment of sperm motility in livestock: Perspectives based on sperm swimming conditions *in vivo*. *Anim Reprod Sci* **246**:106849.
- Wang, N., J. Li, Y. Wang, Y. Wang, D. Zhang, C. Shi, Y. Li, S.M. Bergmann, X. Mo, J. Yin, and Q. Wang. 2022. Recombinant *Lactococcus lactis* Expressing Grass Carp Reovirus VP6 Induces Mucosal Immunity Against Grass Carp Reovirus Infection. *Front Immunol* **13**:914010.
- Wang, W., Y. Ning, Y. Wang, S. Pace, S.A. Barth, C. Menge, K. Zhang, Y. Dai, Y. Cai, X. Chen, and O. Werz. 2022. *Mycobacterium tuberculosis*-Induced Upregulation of the COX-2/mPGES-1 Pathway in Human Macrophages Is Abrogated by Sulfasalazine. *Front Immunol* **13**:849583.
- Wang, X., and B. Petersen. 2022. More abundant and healthier meat: will the MSTN editing epitome empower the commercialization of gene editing in livestock? *Sci China-Life Sci* **12**:442.
- Wareth, G., M. Dadar, H. Ali, M.E.R. Hamdy, A.M. Al-Talhy, A.R. Elkharsawi, A.A. Abd El Tawab, and H. Neubauer. 2022. The perspective of antibiotic therapeutic challenges of brucellosis in the Middle East and North African (MENA) countries: Current situation and therapeutic management. *Transbound Emerg Dis* **69**:e1253-e1268.
- Wareth, G., J. Linde, P. Hammer, M.W. Pletz, H. Neubauer, and L.D. Sprague. 2022. WGS-Based Phenotyping and Molecular Characterization of the Resistome, Virulome and Plasmid Replicons in *Klebsiella pneumoniae* Isolates from Powdered Milk Produced in Germany. *Microorganisms* **10**:564.
- Weber, M., and T.M. Fuchs. 2022. Metabolism in the Niche: a Large-Scale Genome-Based Survey Reveals Inositol Utilization To Be Widespread among Soil, Commensal, and Pathogenic Bacteria. *Microbiol Spectr* **10**:e0201322.
- Wedlich, N., J. Figl, E.M. Liebler-Tenorio, H.U. Köhler, K. von Pückler, M. Rissmann, S. Petow, S.A. Barth, P. Reinhold, R. Ulrich, L. Grode, S.H. Kaufmann, and C. Menge. 2022. Video Endoscopy-Guided Intrabronchial Spray Inoculation of *Mycobacterium bovis* in Goats and Comparative Assessment of Lung Lesions With Various Imaging Methods. *Front Vet Sci* **9**:877322.
- Weissenböck, H., A. Ebinger, A.M. Gager, D. Thaller, D. Höper, K. Lichtmannsperger, C. Weissenbacher-Lang, J. Matt, and M. Beer. 2022. A novel enterovirus in lambs with poliomyelitis and brain stem encephalitis. *Transbound Emerg Dis* **69**:227-234.
- Wendt, L., J. Brandt, D.S. Ushakov, B.S. Bodmer, M.J. Pickin, A. Groseth, and T. Hoenen. 2022. Evidence for Viral mRNA Export from Ebola Virus Inclusion Bodies by the Nuclear RNA Export Factor NXF1. *J Virol* **96**:e0090022.
- Wernike, K. 2022. Bovine Viral Diarrhea/Mucosal Disease—A Commentary of the Guest Editor. *Vaccines* **10**:590.
- Wernike, K., A. Aebischer, J.-C. Audonnet, and M. Beer. 2022. Vaccine development against Schmallenberg virus: from classical inactivated to modified-live to scaffold particle vaccines. *One Health Outlook* **4**:13.
- Wernike, K. and M. Beer. 2022. International proficiency trial for bovine viral diarrhea virus (BVDV) antibody detection: limitations of milk serology. *BMC Vet Res* **18**:168.

- Wernike, K., J. Böttcher, S. Amelung, K. Albrecht, T. Gärtner, K. Donat, and M. Beer.** 2022. Antibodies against SARS-CoV-2 Suggestive of Single Events of Spillover to Cattle, Germany. *Emerg Infect Dis* **28**:1916-1918.
- Wernike, K., S. Drewes, C. Mehl, C. Hesse, C. Imholt, J. Jacob, R.G. Ulrich, and M. Beer.** 2022. No Evidence for the Presence of SARS-CoV-2 in Bank Voles and Other Rodents in Germany, 2020-2022. *Pathogens* **11**:1112.
- Wernike, K., L. Fischer, M. Holsteg, A. Aebischer, A. Petrov, K. Marquart, U. Schotte, J. Schön, D. Hoffmann, S. Hechinger, A. Neubauer-Juric, J. Blicke, T.C. Mettenleiter, and M. Beer.** 2022. Serological screening in wild ruminants in Germany, 2021/22: No evidence of SARS-CoV-2, bluetongue virus or pestivirus spread but high seroprevalences against Schmallenberg virus. *Transbound Emerg Dis* **69**:e3289-e3296.
- Widerspick, L., C.A. Vázquez, L. Niemetz, M. Heung, C. Olal, A. Bencsik, C. Henkel, A. Pfister, J.E. Brunetti, I. Kucinskaite-Kodze, P. Lawrence, C. Muñoz Fontela, S. Diederich, and B. Escudero-Pérez.** 2022. Inactivation Methods for Experimental Nipah Virus Infection. *Viruses* **14**:1052.
- Wisgalla, A., C. Ramien, M. Streitz, S. Schlickeiser, A.-R. Lupu, A. Diemert, E. Tolosa, P.C. Arck, J. Bellmann-Strobl, N. Siebert, C. Heesen, F. Paul, M.A. Friese, C. Infante-Duarte, and S.M. Gold.** 2022. Alterations of NK Cell Phenotype During Pregnancy in Multiple Sclerosis. *Front Immunol* **13**:907994.
- Witt, N., D. Galante, S. Andreotti, M. Abdel-Gliil, A. Fasanella, D. Meierhofer, and H. Tomaso.** 2022. Identification of Universally Applicable and Species-Specific Marker Peptides for *Bacillus anthracis*. *Life* **12**:1549.
- Wittwer, M., P. Hammer, M. Runge, P. Valentin-Weigand, H. Neubauer, K. Henning, and K. Mertens-Scholz.** 2022. Inactivation Kinetics of *Coxiella burnetii* During High-Temperature Short-Time Pasteurization of Milk. *Front Microbiol* **12**:753871.
- Wöhnke, E., G. Cackett, F. Werner, S. Blome, T.C. Mettenleiter, and A. Karger.** 2022. Proteome Analysis of Swine Macrophages after Infection with Two Genotype II African Swine Fever Isolates of Different Pathogenicity. *Viruses* **14**:2140.
- Wolff, J., M. Beer, and B. Hoffmann.** 2022. High Efficiency of Low Dose Preparations of an Inactivated Lumpy Skin Disease Virus Vaccine Candidate. *Vaccines* **10**:1029.
- Wolff, J., E. Tuppurainen, A. Adedeji, C. Meseko, O. Asala, J. Adole, R. Atai, B. Dogonyaro, A. Globig, D. Hoffmann, M. Beer, and B. Hoffmann.** 2022. Characterization of a Nigerian Lumpy Skin Disease Virus Isolate after Experimental Infection of Cattle. *Pathogens* **11**:16.
- Wulf, R., D. Arends, D. Dannenberger, T. Ettle, U. Meyer, U. Mohr, and G.A. Brockmann.** 2022. Association between Fatty Acid Composition in Hair and Energy Availability during Early Lactation in Simmental and German Holstein Cows. *Metabolites* **12**:1201.
- Xu, W., S. Grindler, Á. Kenéz, S. Dänicke, J. Frahm, and K. Huber.** 2022. Changes of the liver metabolome following an intravenous lipopolysaccharide injection in Holstein cows supplemented with dietary carnitine. *J Anim Sci Biotechnol* **13**:94.
- Yessinou, R.E., K. Mertens-Scholz, H. Neubauer, and S. Farougou.** 2022. Prevalence of *Coxiella*-infections in ticks - review and meta-analysis. *Ticks Tick-borne Dis* **13**:101926.
- Zarenezhad, E., H.T. Abdulabbas, M. Marzi, E. Ghazy, M. Ekrahi, B. Pezeshki, A. Ghasemian, and A.A. Moawad.** 2022. Nickel Nanoparticles: Applications and Antimicrobial Role against Methicillin-Resistant *Staphylococcus aureus* Infections. *Antibiotics* **11**:1208.

Zeng, W., H. Dong, X. Chen, S.M. Bergmann, Y. Yang, X. Wei, G. Tong, H. Li, H. Yu, and Y. Chen. 2022. Establishment and characterization of a permanent heart cell line from largemouth bass *Micropterus salmoides* and its application to fish virology and immunology. *Aquaculture* **547**:737427.

Zhao, N., C. Grund, M. Beer, G. Wang, and T.C. Harder. 2022. Tetraplex Fluorescent Microbead-Based Immunoassay for the Serodiagnosis of Newcastle Disease Virus and Avian Influenza Viruses in Poultry Sera. *Pathogens* **11**:1059.

Zhou, S., P. Kalds, Q. Luo, K. Sun, X. Zhao, Y. Gao, B. Cai, S. Huang, Q. Kou, B. Petersen, Y. Chen, B. Ma, and X. Wang. 2022. Optimized Cas9:sgRNA delivery efficiently generates biallelic MSTN knockout sheep without affecting meat quality. *BMC Genomics* **23**:348.

Zhu, J.J., C. Stenfeldt, E.A. Bishop, J.A. Canter, M. Eschbaumer, L.L. Rodriguez, and J. Arzt. 2022. Inferred Causal Mechanisms of Persistent FMDV Infection in Cattle from Differential Gene Expression in the Nasopharyngeal Mucosa. *Pathogens* **11**:822.

Ziegler, U., F. Bergmann, D. Fischer, K. Müller, C.M. Holicki, B. Sadeghi, M. Sieg, M. Keller, R. Schwehn, M. Reuschel, L. Fischer, O. Krone, M. Rinder, K. Schütte, V. Schmidt, M. Eiden, C. Fast, A. Günther, A. Globig, F.J. Conraths, C. Staubach, F. Brandes, M. Lierz, R. Korbel, T.W. Vahlenkamp, and M.H. Groschup. 2022. Spread of West Nile Virus and Usutu Virus in the German Bird Population, 2019-2020. *Microorganisms* **10**:807.

Zinner, D., S. Knauf, I.S. Chuma, T.M. Butynski, Y.A. De Jong, J.D. Keyyu, R. Kaitila, and C. Roos. 2022. Mito-phylogenetic relationship of the new subspecies of gentle monkey *Cercopithecus mitis manyaraensis*, Butynski & De Jong, 2020. *Primate Biol* **9**:11-18.

Zoran, T., B. Seelbinder, P.L. White, J.S. Price, S. Kraus, O. Kurzai, J. Linde, A. Häder, C. Loeffler, G.U. Grigoleit, H. Einsele, G. Panagiotou, J. Loeffler, and S. Schäuble. 2022. Molecular Profiling Reveals Characteristic and Decisive Signatures in Patients after Allogeneic Stem Cell Transplantation Suffering from Invasive Pulmonary Aspergillosis. *J Fungi* **8**:171.

## Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings

Böhmer, M.M., V. Haring, D. Rubbenstroth, M. Bauswein, D. Tappe, A. Sternjakob, K. Pörtner, C. Frank, S. Wunderlich, C. Zimmer, K. Angstwurm, I. Wiesinger, C. Herden, M. Beer, B. Schmidt, and R.G. Ulrich. 2022. Selten, aber tödlich: Bornavirus-Enzephalitis. *Bayr Ärztebl* **09/2022**:434-437.

Bornstein, S., G. Bräuer, U. Fischer, V. Jung-Schroers, D. Steinhagen, U. Truyen, and M. Bastian. 2022. Impfung von Fischen. *Dt Tierärztebl* **70**:612-616.

Brücher, B., B. Brembs, D. Bartsch, R. Przygodzki, R.-D. Gosselin, M.S. Rupnik, V. Calu, C. Birkenmaier, O. Hayden, A. Schmidt, N. Elias, H.J. Stein, C. Restrepo, R.U. Pliquet, B. Petersen, A. Spsychalla, D.H. Nguyen, L.L. Santos, A. Szold, M. Tez, F. Roviello, P. Macri, V. Loroch, M.A. Scherer, B. Pasche, K. Polom, S. Wesarg, E. Matevossian, B. Zilberstein, I.A. Kryvoruchko, J.M. Correia de Costa, G. Nigri, V. Weissig, S. Ralon, M. Kermansaravi, R. Oleas, M. Seno, M. Baum, J. Voskuil, Y. Mintz, S. Rödiger, G. Schueler, H. Kühn, P. Delrio, G. Wallner, A. Rivkind, P. Nieminen, D.G. Armstrong, M.P. Schlegel, M. Daumer, V. Ööpik, R.J.C. Araujo Jr., J.F.F. Lapeña Jr., R. Perkins, G. Anogianakis, J. Salber, R. Tenne, and I.S. Jamall. 2022. Initiative on #4openScienceStandsForUkraine scientists and students. *4open* **5**:E2.

Conraths, F.J. 2022. Was kommt nach SARS-CoV-2? *Pneumologische Nachrichten* **05/2022**:22.

ENETWILD-consortium, P.C. Alves, D. Gavier-Widen, E. Ferroglio, J. Queirós, M. Rafael, N. Santos, T. Silva, C. Gonçalves, R. Vada, S. Zanet, G. Smith, F. Gethöffer, O. Keuling, C. Staubach, C. Sauter-Louis, J.A. Blanco, T. Podgorski, M. Larska, C. Richomme, S. Knauf, J.M. Rijks, C. Pasetto, F. Benatti, M. Poncina, A. Gómez, J. Dups-Bergmann, A. Neimanis, and J. Vicente. 2022. Literature review on the main existing structures and systematic/academic initiatives for surveillance in the EU

for zoonoses in the environment and the methods for surveillance of pathogens in the environment. EFSA Support Publ 19:7792E.

**ENETWILD-consortium, E. Ferroglio, D. Gavier-Widen, C. Gonçalves, R. Vada, S. Zanet, G. Smith, F. Gethöffer, O. Keuling, C. Staubach, C. Sauter-Louis, J.A. Blanco, T. Podgorski, M. Larska, C. Richomme, S. Knauf, J.M. Rijks, A. Gómez, P.C. Alves, J. Queirós, M. Rafael, N. Santos, T. Silva, J. Dups-Bergmann, A. Neimanis, and J. Vicente.** 2022. Describing and mapping of the main existing structures and systematic initiatives and academic activities for surveillance in the EU for zoonoses (transboundary, emerging and re-emerging) in domestic animals and wildlife. EFSA Support Publ 19:7795E.

**Freuling, C.M., A. Klein, and T. Müller.** 2022. Fledermäuse und Tollwut. Mitt Naturw Ver Goslar 14:127-132.

**Hiller, P., A. Meyer, K. Schemmann, M. Kölln, and J. Klüß.** 2022. Mastalternativen: Weniger Fläche nötig. Land & Forst 29/2022:2-3.

**Hoffmann, D., and M. Beer.** 2022. Affenpocken-update. Amtstierärztl Dienst Lebensm 29:140-141.

**Jany, K.-D., and G. Flachowsky.** 2022. Zum Stand der Gentechnik aus der Sicht der Tierernährung. Züchtungskunde 6/2022.

**Kauselmann, K., E.T. Krause, L. Schrader, E. Gallmann, H. Schrade.** 2022. So beschäftigen sich Schweine gerne. BW agrar 189(21):22-23.

**Malchow, J.** 2022. Auf erhöhten Ebenen fit durch die Mast. DGS Magazin 2/2022.

**Malchow, J.** 2022. (Ein) Hoch auf die Gesundheit. DGS Magazin 6/2022:18-21.

**Mamerow, S., P. Reinhold, J. Klüß, S. Petow, M. Kaepke, M. Wiegard, and C. Thöne-Reineke.** 2022. Tierartspezifische Sachkunde für den Umgang mit landwirtschaftlichen Nutztieren im Tierversuch. Amtstierärztl Dienst Lebensm 29:180-183.

**Mettenleiter, T.C.** 2022. Qualitative Risikobewertung zur Einschleppung der Afrikanischen Schweinepest in Auslauf- und Freiland Schweinehaltungen in Deutschland. Amtstierärztl Dienst Lebensm 29:144-149.

**Peschel, A., A. Diepold, T.M. Fuchs, J. Ast, M. Lemoine, B. Schink, K. Turgay, B. Stecher, K. Thormann, R. Colin, J. Sander, P. Neumann-Staubitz, K. Aichane, and D. Kruck.** 2022. Journal Club. BIOSpektrum 28:50-57.

**van Schaik, G., A. Madouasse, A. van Roon, J. Frössling, J. Gethmann, C. Fourichon, M. Mercat, S. More, E. Ågren, C. Sauter-Louis, G. Gunn, J. Eze, R. Humphry, M. Henry, D. Graham, M. Guelbenzu, M. Nielsen, and I.M.G.A. Santman-Berends.** 2022. Comparison of the confidence in freedom from infection based on different control programmes between EU member states: STOC free. EFSA Support Publ 19:7263E.

**Schmarje, L., V. Grossmann, C. Zelenka, S. Dippel, R. Kiko, M. Oszust, M. Pastell, J. Stracke, A. Valros, N. Volkmann, and R. Koch.** 2022. Is one annotation enough? A data-centric image classification benchmark for noisy and ambiguous label estimation (Preprint). arXiv [Epub ahead of print; arXiv:2207.06214]

**Schwarz, M., I. Schwabe, C. Süß-Dombrowski, B. Blazey, S. Reiche, A. Binder, U. Schotte, H. Weinberger, W. Hermanns, and J.P. Teifke.** 2022. Nicht nur eine importierte Reisekrankheit: Die Hepatozoonose der Marder. Amtstierärztl Dienst Lebensm 29:311-315.

**Stoldt, A.-K., and T.C. Mettenleiter.** 2022. Pro&Contra - Wir fragten zwei Experten aus dem veterinärmedizinischen Bereich: Ist angesichts des aktuellen Geschehens eine Impfung gegen die Geflügelpest notwendig? DGS Magazin 2/2022:10.

**Straubinger, R.K., B. Kohn, U. Truyen, K. Hartmann, A. Moritz, and M. Bastian.** 2022. Die Neubewertung der Impfung gegen Tollwut - Erläuterungen der StIKo Vet. Dt Tierärztebl **70**:21-24.

**Vallbracht, M., B.G. Klupp, and T.C. Mettenleiter.** 2022. Die komplexe Fusionsmaschinerie der Herpesviren. *BIOspektrum* **28**:168-170.

**Vial, F., R. Hedell, P. Hopp, F.C. Dórea, A. Leblond, J. Gethmann, and M.G. Andersson.** 2022. Bayesian approaches to epidemiological surveillance: a review and introduction for risk-assessors and decision-makers (Preprint). Zenodo [Epub ahead of print; doi:10.5281/zenodo.6548557]

**Wylezich, C., J. Walochnik, and S. Hess.** 2022. Einzeller des Jahres 2022: *Blastocystis* - ein immer noch rätselhafter Einzeller. *Rundschau für Fleischhygiene und Lebensmittelüberwachung* **74**:207-208.

## Buchbeiträge

**Fischer, K., B. Pickering, and S. Diederich.** 2022. Detection of Serum Antibody Responses in Nipah Virus-Infected Pigs. *In: Aquino de Muro, M. (ed.), Virus-Host Interactions, Methods Mol Biol, Vol. 2610, Humana, New York, NY, S. 17-29.*

**Fischer, U., and F. Takizawa.** 2022. Cellular Immune Responses. *In: Buchmann, K. and C.J. Secombes (eds.), Principles of Fish Immunology, Springer, Cham, ISBN: 978-3-030-85419-5 (print) / 978-3-030-85420-1 (online), S. 141-176.*

**Gomes Vale, W., S.R. Silva Castro, A.O. Almeida-Silva, J.C. Gutiérrez-Añez, and P. Singh.** 2022. Advances in Cryopreservation of Buffalo Semen. *In: Singh Chauhan, M., and N.L. Selokar (Hrsg.), Biotechnological Applications in Buffalo Research, Springer, Singapore, ISBN: 978-981-16-7530-0 / 978-981-16-7531-7, doi:10.1007/978-981-16-7531-7\_17, S. 333-376.*

**Goutard, F., C. Calba, S. Chea, N. Antoine-Moussiaux, M. Pruvot, K. Schulz, and M. Peyre.** 2022. The Use of Participatory Methods in the Evaluation of Health Surveillance Systems. *In: Peyre, M., F. Roger, and F. Goutard (eds.), Principles for Evaluation of One Health Surveillance: The EVA Book, Springer, Cham, 978-3-030-82726-7 (printed)/978-3-030-82727-4 (online), S. 163-177, doi:10.1007/978-3-030-82727-4\_8.*

**Gutiérrez-Añez, J.C., A. Camacho de Gutiérrez, and H. Nava-Trujillo.** 2022. Application of Fixed-Time Artificial Insemination in Water Buffaloes. *In: Singh Chauhan, M., and N.L. Selokar (Hrsg.), Biotechnological Applications in Buffalo Research, Springer, Singapore, ISBN: 978-981-16-7530-0 / 978-981-16-7531-7, doi:10.1007/978-981-16-7531-7\_15, S. 295-318.*

**Lohse, A.W., and T.C. Mettenleiter (eds.).** 2022. Infektionen und Gesellschaft - Was haben wir von COVID-19 gelernt? Springer Spektrum, Berlin Heidelberg, ISBN: 978-3-662-66072-0 (print) / 978-3-662-66073-7 (online), doi:10.1007/978-3-662-66073-7, 167 S.

Darin enthalten:

**Mettenleiter, T.C.** Was lehrt uns One Health, S. 36-41, doi:10.1007/978-3-662-66073-7\_6.

**Lu, L., F. Zhang, B.B. Oude Munnink, E. Munger, R.S. Sikkema, S. Pappa, K. Tsioka, A. Sinigaglia, E. Dal Molin, B.B. Shih, A. Günther, A. Pohlmann, M. Beer, R.A. Taylor, F. Bartumeus, M. Woolhouse, F.M. Aarestrup, L. Barzon, A. Papa, S. Lycett, and M.P.G. Koopmans.** 2022. West Nile Virus spread in Europe - phylogeographic pattern analysis and key drivers (Preprint). bioRxiv [Epub ahead of print; doi:10.1101/2022.11.10.515886]

**Lubisi, B.A., M. Beer, and M. Baron.** 2022. Bunyaviral diseases of animals (excluding Rift Valley fever and Crimean-Congo haemorrhagic fever). *In: Manual of diagnostic tests and vaccines for terrestrial animals 2022: OIE Terrestrial manual 2022, World Organisation for Animal Health, Chapter 3.10.1.*

**Müller, T., R. Hassel, M. Jago, S. Khaiseb, J. van der Westhuizen, A. Vos, S. Calvelage, S. Fischer, D.A. Marston, A.R. Fooks, D. Höper, and C.M. Freuling.** 2022. Rabies in kudu: Revisited. *In: Kielian,*



M.C., T.C. Mettenleiter, and M.J. Roosinck (eds). *Advances in Virus Research*, Vol. 112, Academic Press Inc. Elsevier Science, San Diego, USA, S. 115-173.

**Müller, T., C.C. Rupprecht, A.R. Fooks, L. Both, S.P. Smith, A.P. Gibson, F. Lohr, A. Fahrion, and C.M. Freuling.** 2022. Elimination of Rabies - A Missed Opportunity. *In: Sing, A. (ed.), Zoonoses: Infections Affecting Humans and Animals, 2<sup>nd</sup> Edition*, Springer International Publishing, Cham, ISBN: 978-3-030-85877-3 [Epub ahead of print; doi:10.1007/978-94-017-9457-2\_21]

**Pei, G.** 2022. Identification of Novel Endogenous NOD Ligands: Quantitative Analysis of Binding Affinities of NOD1 or NOD2 with Sphingosine-1-Phosphate Using Microscale Thermophoresis. *In: Kufer, T.A., and M. Kaparakis-Liaskos (eds.), Effector-Triggered Immunity, Methods and Protocols, Methods in Molecular Biology*, Vol. 2535, Humana, New York, ISBN: 978-1-0716-2448-7 (print) / 978-1-0716-2449-4 (online), S. 151-160.

**Petersen, B., and S. Kurtz.** 2022. Generation of Pigs that Produce Single Sex Progeny. *In: Verma, J.P., H. Sumer, and J. Liu (Hrsg.), Applications of Genome Modulation and Editing, Methods in Molecular Biology*, Vol. 2495, Humana, New York, ISBN: 978-1-0716-2301-5, S. 275-293.

**Peyre, M., K. Schulz, P.T.T. Hoa, and B. Häslar.** 2022. The EVA Survtool: An Integrated Framework to Plan Health Surveillance Evaluation. *In: Peyre, M., F. Roger, and F. Goutard (eds.), Principles for Evaluation of One Health Surveillance: The EVA Book*, Springer, Cham, 978-3-030-82726-7 (printed)/978-3-030-82727-4 (online), S. 61-92, doi: 10.1007/978-3-030-82727-4\_4.

**Werner, D., and H. Kampen.** 2022. Kiemenfußkrebse (Crustacea: Branchiopoda) am Mittellauf der Oder. *In: Nationalparkstiftung Unteres Odertal (Hrsg.), Nationalpark-Jahrbuch Unteres Odertal 2022*, Verl. Nationalparkstiftung Unteres Odertal, Schwedt/Oder, ISBN: 1863-7760, S. 137-144.

**Werner, D., and H. Kampen.** 2022. Stechmücken im Naturpark Moor. *In: Emsland Moormuseum (Hrsg.), Ein Glücksfall, Artenreichtum Moor: Kartierung der vorhandenen Flora und Fauna in den Naturschutzgebieten des Naturpark Moor*, Fromm + Rasch GmbH & Co. KG, Osnabrück, S. 92-99.

**Werner, D., and H. Kampen.** 2022. Zoos and wildlife parks: a laboratory for the study of mosquito-borne wildlife diseases. *In: Gutiérrez-López, R., J.G. Logan, and J. Martínez-de la Puente (Hrsg.), Ecology of diseases transmitted by mosquitoes to wildlife*, Wageningen Academic Publishers, Wageningen, ISBN: 978-9-086-86931-2 (printed) / 978-9-086-86379-2 (online), S. 81-93.

**Windisch, W., and G. Flachowsky.** 2022. Livestock-based Bioeconomy. *In: Thrän, D., and U. Moesenfechtel (eds.), The bioeconomy system*, Springer, Berlin Heidelberg, ISBN: 978-3-662-64414-0 (printed) / 978-3-662-64415-7 (online), pp. 67-83, doi:10.1007/978-3-662-64415-7\_5.

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

### Habilitationen

**Schulz, Katja** (IfE): African swine fever in wild boar. Evaluation of its epidemiology, surveillance and control integrating participatory epidemiology (Universität Rostock)

**Wareth, Gamal** (IBIZ): Bacterial Zoonoses: Molecular Characterization of Antimicrobial Resistance and Pathogenicity from a One-Health Perspective (Friedrich-Schiller-Universität Jena)

### Dissertationen

**Bannert, Erik** (ITE): On the metabolism and toxicokinetics of deoxynivalenol and zearalenone in endotoxaemic pigs (Martin-Luther-Universität Halle-Wittenberg)

**Bassis, Stefanie** (IMP): Evaluierung der Säure-Basen-Homöostase während experimentell induzierter mykobakterieller Infektionen mit akutem und chronischem Verlauf bei Ziegen (Freie Universität Berlin)

**Bünemann, Katharina** (ITE): Effects of pre-calving body condition and postpartum concentrate feed proportions of the ration on performance, mobilization of adipose tissue depots, ruminal pH parameters, microbial efficiency and animal health during the transition period in dairy cows (Martin-Luther Universität Halle-Wittenberg)

**Ehrenberg, Sandra** (IfI): Establishment of an ELISA and a lateral flow device for detection of European and American foulbrood including genotype-differentiation of the American foulbrood causing agent (ERIC I & ERIC II) in honey bees (Universität Greifswald)

**Eisele (Stephan), Magalie** (IfE): Epidemiologische Auswertung der BHV1-Bekämpfung in Milch- und Mutterkuhbetrieben in Nordrhein-Westfalen von 2010 bis 2015 (Freie Universität Berlin)

**Friedrichs, Virginia** (IfI): Immune responses of the Egyptian Rousette Bat - Deciphering the unique immunity of an important reservoir host for zoonotic viruses (Universität Greifswald)

**Geibel, Johannes** (ING): Arrays and beyond: Evaluation of marker technologies for chicken genomics (Georg-August-Universität Göttingen)

**Gischke, Marcel** (IMVZ): Genetic determinants for virulence and adaptation of avian influenza virus subtype H4N2 in chickens and subtype H10N7 in mammals (Universität Greifswald)

**Montero, Ruth** (IfI): Considerations and new tool for improving fish vaccination (Universität Greifswald)

**Ostermann, Sven** (IfI): Immunostimulatory potential of outer membrane vesicles derived from *Aeromonas salmonicida* - possible use in vaccines? (Universität Greifswald)

**Pernat, Nadja** (IMED): The citizen science project 'Mückenatlas': contributions of opportunistic data collection to mosquito research in Germany (Freie Universität Berlin)

**Sick, Franziska** (IVD): Shuni-Virus: Charakterisierung der neurologischen Erkrankung im Tiermodell und Entwicklung serologischer Tests (Ludwig-Maximilians-Universität München)

**Söllner, Jenny-Helena** (ING): An experimental approach of an in vivo pathogen genome targeting strategy to generate African swine fever resistant pigs (Tierärztliche Hochschule Hannover)

**Sreekantapuram, Sravya** (IMP): Host-pathogen interaction using the whole blood models (Friedrich-Schiller-Universität Jena)

**Ulrich, Lorenz** (IVD): Severe Acute Respiratory Syndrome Coronavirus 2: susceptibility, immunoprophylaxis, and variant characterization in animal models (Ludwig-Maximilians-Universität München)

## PhD Theses

**Lenk, Laura Johanna** (ING): Generation of KCNJ5G151R/+ knock-in pigs as model for human primary aldosteronism using the CRISPR-Cas9 system (Tierärztliche Hochschule Hannover)

## Diplomarbeiten

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## Masterarbeiten

**Adade, Eugene** (IITG): Characterization of oral and gastrointestinal bacteria and their antimicrobial susceptibility profile in non-human primate species from selected areas in Ghana (Kwame Nkrumah University of Science and Technology, Kumasi, Ghana)

**Cardron, Garance** (IfE): Microsatellite typing of *Toxoplasma gondii* isolates from Europe: harmonization through an interlaboratory comparison and its application to a large panel of European field samples to identify geographic relationships (Université Limoges)

**Eshak, Mirette** (IMVZ): Proteolytic activation of viral glycoproteins using trypsin-like enzymes (Friedrich-Schiller-Universität Jena)

**Ghimire, Rabina** (IITG): Comparative assessment in control and eradication of transboundary animal diseases: Rabies, Highly Pathogenic Avian Influenza, African Swine Fever, and Lumpy Skin Disease (Université de Tours)

**Mählmann, Bernhard** (ITE): Untersuchungen zur Wirkung von Zearalenon-kontaminierten Zuckerrübenprodukten in der Sauenfütterung (Georg-August-Universität Göttingen)

**Ojo, Michael** (IITG): Review of Qualitative Risk Assessment for Highly Pathogenic Avian Influenza in Nigeria (Université de Tours)

**Pioch, Jonathan** (IfI): Multi-species transcriptome analysis of the monocyte and macrophage immune response against *Mycobacterium tuberculosis* (Universität Greifswald)

**Rademacher, Maurice** (IfE): Optimizing policies for epidemic control using reinforcement learning (Universität Greifswald)

**Schröder, Arndt** (ITE): Effekte steigender diätischer Kupferdosierungen auf Leistung, Gesundheit und Exkretion von der Ferkelaufzucht bis zur Anfangsmast (Martin-Luther-Universität Halle-Wittenberg)

## Bachelorarbeiten

**Haider, Lea Celine** (INNT): Assoziation von Puumala-Orthohantavirus-Stämmen mit evolutionären Linien der Rötelmaus (Universität Greifswald)

**Hochheiser, Elisa Frederike** (IMVZ): Establishing of a Reverse Genetic System for the low-pathogenic Influenza A virus strain CK/BE/1940/19 (H3N1) (Universität Greifswald)

**Jäger, Lea** (IMED): Nachweis von Viren bei gesund erscheinenden russischen Stören (*Acipenser gueldenstaedtii*) (Universität Greifswald)

**Jansson, Solveigh** (IMED): Transovarielle Transmission von Sindbis-Virus bei *Aedes albopictus* und *Culex pipiens* (Universität Greifswald)

**Kleist, Jette Frieda** (IfE): Innerbetriebliche Verbreitung von ESBL/AmpC tragenden *Escherichia coli* in der Milchviehhaltung (Hochschule Neubrandenburg)

**Kudla, Madita** (IMVZ): Rekrutierung in Nukleokapsiden in infektiöse Partikel durch Ebola-Virus/LLoivi-Virus VP40-Chimären (Universität Greifswald)

**Mantel, Friederike Tabea** (ITT): Tierwohl in der Mutterkuhhaltung - Herausforderungen und umsetzbare Indikatoren für die Praxis (Georg-August-Universität Göttingen)

**Otto, Antonia** (ITT): Tierbezogene Indikatoren für Tierwohlprobleme bei Zuchtebern (Humboldt-Universität zu Berlin)

**Richter, Maximilian** (IMVZ): Charakterisierung von Henipavirus Matrixprotein Interaktionen (Universität Greifswald)

**Rode, Anna** (ITT): Abkühlungsmöglichkeiten für Schweine (Universität Kassel)

**Schmidt, Katharina A.** (IMVZ): Funktionale Charakterisierung der KP177R (p22) und I10L (p110L) Gene und Genprodukte des Afrikanischen Schweinepestvirus (ASPV) (Universität Greifswald)

**Schnell, Marina** (IMVZ): Ein einzelner Aminosäureaustausch in der Transmembrandomäne des Glykoprotein H kompensiert die Funktion des Glykoprotein L bei der Membranfusion im Pseudorabies Virus (Universität Greifswald)

**Voigtsberger, Jan Niklas** (IfI): Charakterisierung der CEA-Genfamilienmitglieder der Kamele und Erarbeitung einer Expressionsmethode der CEACAM-Proteine (TH Lübeck)