



Publikationen des FLI 2024

Inhaltsverzeichnis

Veröffentlichungen in referierten Zeitschriften	2
Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings	8
Buchbeiträge	10
Habilitationen, Dissertationen, PhD Theses, Diplom-, Master- und Bachelorarbeiten	10
Habilitationen	10
Dissertationen	10
PhD Theses	10
Diplomarbeiten	10
Masterarbeiten	10
Bachelorarbeiten	10

Bearbeitung: Anette Beidler
Redaktionsschluss: 02.04.2024

Veröffentlichungen in referierten Zeitschriften

Adade, E., P.O. Tawiah, C. Roos, I.S. Chuma, C.C. Lubinza, S.G.M. Mfinanga, S. Knauf, and A.A. Sylverken. 2024. Antimicrobial susceptibility profile of oral and rectal microbiota of non-human primate species in Ghana: A threat to human health. *Vet Med Sci* **10**:e1271.

Adamczyk, K., D. Rubbenstroth, A. Ledwoń, R. Sapieryński, and P. Szeleszczuk. 2024. The first confirmed cases of pigeon rotavirus A (RVA) infection in domestic pigeons (*Columba livia*) in Poland. *J Vet Res* **68**:55-61.

Adamkowska, N., J. Kiełpińska, and S.M. Bergmann. 2024. Assessing tropism and genetic traits of carp oedema virus isolates to enhance detection strategies. *J Vet Res* **68**:63-72.

Agusi, E.R., J. Schön, V. Allendorf, E.A. Eze, O. Asala, I. Shittu, A. Balkema-Buschmann, K. Wernike, I.S. Tekki, M. Ofua, O. Adefegha, O. Olubade, O. Ogunolawa, K. Dietze, A. Globig, D. Hoffmann, and C.A. Meseko. 2024. SARS-CoV and SARS-CoV -2 cross-reactive antibodies in domestic animals and wildlife in Nigeria suggest circulation of sarbecoviruses. *One Health* **18**:100709.

Bagato, O., A. Balkema-Buschmann, D. Todt, S. Weber, A. Gömer, B. Qu, C. Miskey, Z. Ivics, T.C. Mettenleiter, S. Finke, R.J.P. Brown, A. Breithaupt, and D.S. Ushakov. 2024. Spatiotemporal analysis of SARS-CoV-2 infection reveals an expansive wave of monocyte-derived macrophages associated with vascular damage and virus clearance in hamster lungs. *Microbiol Spect* **12**:e0246923.

Barlang, L.-A., I. Deimel, B.-P. Mohl, C. Blaurock, A. Balkema-Buschmann, K. Weinbender, B. Hess, H. Obernolte, O.M. Merkel, and A. Popp. 2024. Distribution and suitability of pulmonary surfactants as a vehicle for topically applied antibodies in healthy and SARS-CoV-2 infected rodent lungs. *Eur J Pharm Sci* **196**:106744.

Barth, S.A., D. Preussger, J. Pietschmann, A.T. Feßler, M. Heller, W. Herbst, C. Schnee, S. Schwarz, F. Kloss, C. Berens, and C. Menge. 2024. *In Vitro* Antibacterial Activity of Microbial Natural Products against Bacterial Pathogens of Veterinary and Zoonotic Relevance. *Antibiotics* **13**:135.

Bauer, C., L.A. Lider, A.E. Ussenbayev, D.M. Seitkamzina, A.A. Zhanabayev, P. Maksimov, and M. Knaus. 2024. *Toxascaris leonina* in dogs - A nematode species of high prevalence in some regions of Eurasia. *Vet Parasitol Reg Stud Rep* **48**:100986.

Beckmüller, E., J. Kluess, L. Hüther, S. Kersten, M. Kölln, C. Visscher, S. Dänicke, and A. Grümpel-Schlüter. 2024. Influences of dietary-reduced nitrogen (N) and phosphorus (P) on chemical body composition, N and P retention and health traits of contemporary barrows. *Arch Anim Nutr* [Epub ahead of print; doi:10.1080/1745039X.2024.2321709]

Bergmann, S.M., Y. Wang, Y. Li, Q. Wang, S. Klafack, Y. Jin, A.C. Hofmann, J. Kiełpińska, A.M. Becker, and W. Zeng. 2024. Occurrence of herpesvirus in fish. *J Vet Res* **68**:73-78.

Blanquer, A., F. Rivas, M. Gérardy, M. Sarlet, N. Moula, U. Ziegler, M.H. Groschup, D. Desmecht, T. Marichal, and M.-M. Garigliany. 2024. Evaluation of Non-Vector Transmission of Usutu Virus in Domestic Canaries (*Serinus canaria*). *Viruses* **16**:79.

Böhmer, M.M., V. Haring, B. Schmidt, F.S. Saller, L. Coyer, L. Chitimia-Dobler, G. Dobler, D. Tappe, A. Bonakdar, A. Ebinger, G. Knoll, L. Eidenschink, A. Rohrhofer, H.H. Niller, K. Katz, P. Starcky, M. Beer, R.G. Ulrich, D. Rubbenstroth, and M. Bauswein. 2024. One Health in Action: Investigation of the First Detected Local Cluster of Fatal Borna Disease Virus 1 (BoDV-1) Encephalitis, Germany 2022. *J Clin Virol* [Epub ahead of print; doi:10.1016/j.jcv.2024.105658]

Bost, C., S. Castro-Scholten, B. Sadeghi, D. Cano-Terriza, M. Frías, S. Jiménez-Ruiz, M.H. Groschup, I. García-Bocanegra, and K. Fischer. 2024. Approaching the complexity of Crimean-Congo hemorrhagic fever virus serology: a study in swine. *J Virol Meth* [Epub ahead of print; doi:10.1016/j.viromet.2024.114915]

Bostedt, L., L. Fénéant, A. Leske, J. Holzerland, K. Günther, I. Waßmann, P. Bohn, and A. Groseth. 2024. Alternative translation contributes to the generation of a cytoplasmic subpopulation of the Junin virus nucleoprotein that inhibits caspase activation and innate immunity. *J Virol* **98**:e01975-23.

Böttcher, J., M. Alex, S. Dänicke, J. Gethmann, K. Mertens-Scholz, and B. Janowitz. 2024. Susceptibility, Immunity, and Persistent Infection Drive Endemic Cycles of Coxiellosis on Dairy Farms. *Animals* **14**:1056.

Bujnoch, F.M., D. Reil, S. Drewes, U.M. Rosenfeld, R.G. Ulrich, J. Jacob, and C. Imholt. 2024. Small mammal community composition impacts bank vole (*Clethrionomys glareolus*) population dynamics and associated seroprevalence of Puumala orthohantavirus. *Integr Zool* **19**:52-65.

Casares-Jimenez, M., A. Rivero-Juarez, P. Lopez-Lopez, M.L. Montes, R. Navarro-Soler, J. Peraire, N. Espinosa, M.R. Alemán-Valls, T. Garcia-Garcia, J. Caballero-Gomez, D. Corona-Mata, I. Perez-Valero, R.G. Ulrich, and A. Rivero. 2024. Rat hepatitis E virus (*Rocahepevirus rattii*) in people living with HIV. *Emerg Microbes Infect* **13**:2295389.

Dähn, O., D. Werner, B. Mathieu, and H. Kampen. 2024. Large-Scale Cytochrome C Oxidase Subunit I Gene Data Analysis for the Development of a Multiplex Polymerase Chain Reaction Test Capable of Identifying Biting Midge Vector Species and Haplotypes (Diptera: Ceratopogonidae) of the *Culicoides* Subgenus *Avaritia* Fox, 1955. *Genes* **15**:323.

Dähnert, L., E. Aliabadi, C. Fast, I. Hrabal, C. Schröder, P. Behrendt, U. Protzer, M.H. Groschup, and M. Eiden. 2024. Immunisation of pigs with recombinant HEV vaccines does not protect from infection with HEV genotype 3. *One Health* **18**:100674.

van Dooremalen, C., Z.N. Ulgezen, R. Dall’Olio, U. Godeau, X. Duan, J.P. Sousa, M.O. Schäfer, A. Beaurepaire, P. van Gennip, M. Schoonman, C. Flener, S. Matthijs, D.C. Bouúaert, W. Verbeke, D. Freshley, D.-J. Valkenburg, T. van den Bosch, F. Schaafsma, J. Peters, M. Xu, Y. Le Conte, C. Alaux, A. Dalmon, R.J. Paxton, A. Tehel, T. Streicher, D.S. Dezmirean, A.I. Giurgiu, C.J. Topping, J.H. Williams, N. Capela, S. Lopes, F. Alves, J. Alves, J. Bica, S. Simões, A. Alves da Silva, S. Castro, J. Loureiro, E. Horčíčková, M. Bencsik, A. McVeigh, T. Kumar, A. Moro, A. van Delden, E. Ziółkowska, M. Filipiak, Ł. Mikołajczyk, K. Leufgen, L. De Smet, and D.C. de Graaf. 2023. Bridging the Gap between Field Experiments and Machine Learning: The EC H2020 B-GOOD Project as a Case Study towards Automated Predictive Health Monitoring of Honey Bee Colonies. *Insects* **15**:76.

Ebogo-Belobo, J.T., S.A. Sadeuh-Mba, G.M. Chavely, M.H. Groschup, W.F. Mbacham, and R. Njouom. 2024. First detection of Rift Valley fever virus antibodies in non-human primates in Cameroon. *J Med Primatol* **53**:e12687.

Eger, E., T. Homeier-Bachmann, E. Adade, S. Dreyer, S.E. Heiden, P.K. Lübcke, P.O. Tawiah, A.A. Sylverken, S. Knauf, and K. Schaufler. 2024. Carbapenem- and cefiderocol-resistant *Enterobacterales* in surface water in Kumasi, Ashanti Region, Ghana. *J Antimicrob Chemother* **6**:dlae021.

Eghbalsaied, S., C. Lawler, B. Petersen, R.A. Hajiyev, S.R. Bischoff, and S. Frankenberg. 2024. CRISPR/Cas9-mediated base editors and their prospects for mitochondrial genome engineering. *Gene Ther* [Epub ahead of print; doi:10.1038/s41434-023-00434-w]

Essaidi-Laziosi, M., F.J. Pérez Rodríguez, C. Alvarez, P. Sattonnet-Roche, G. Torriani, M. Bekliz, K. Adea, M. Lenk, T. Suliman, W. Preiser, M.A. Müller, C. Drosten, L. Kaiser, and I. Eckerle. 2024. Distinct phenotype of SARS-CoV-2 Omicron BA.1 in human primary cells but no increased host range in cell lines of putative mammalian reservoir species. *Virus Res* **339**:199255.

European Food Safety Authority, European Centre for Disease Prevention and Control, European Union Reference Laboratory for Avian Influenza, A. Fusaro, J.L. Gonzalez, T. Kuiken, G. Mirinavičiūtė, É. Niqueux, K. Ståhl, C. Staubach, O. Svatström, C. Terregino, K. Willgert, F. Baldinelli, R. Delacourt, A. Georganas, and L. Kohnle. 2024. Avian influenza overview December 2023-March 2024. *EFSA J* **22**:e8754.

- Farhat, M., S. Khayi, J. Berrada, M. Mouahid, N. Ameer, H. El-Adawy, and S. Fellahi. 2024. *Salmonella enterica* Serovar Gallinarum Biovars Pullorum and Gallinarum in Poultry: Review of Pathogenesis, Antibiotic Resistance, Diagnosis and Control in the Genomic Era. *Antibiotics* 13:23.
- Felsl, A., D. Brokatzky, C. Kröger, R. Heermann, and T.M. Fuchs. 2024. Hierarchic regulation of a metabolic pathway: H-NS, CRP, and SsrB control *myo*-inositol utilization by *Salmonella enterica*. *Microbiol Spect* 12:e0272423.
- Fereig, R.M., A.M. Mazeed, A.A. Abd El Tawab, M. El-Diasty, A. Elsayed, R.M. Shaapan, E.A. Abdelbaset, C.F. Frey, B.S. Alawfi, S.A. Altwaim, A.S. Alharbi, and G. Wareth. 2024. Exposure to *Brucella* Species, *Coxiella burnetii*, and *Trichinella* Species in Recently Imported Camels from Sudan to Egypt: Possible Threats to Animal and Human Health. *Pathogens* 13:179.
- Fietz, S., T. Grochow, G. Schares, T. Töpfer, and R.M. Heilmann. 2024. Fulminant Pneumonia Due to Reactivation of Latent Toxoplasmosis in a Cat—A Case Report. *Pathogens* 13:7.
- Fürstenau, J., M.T. Richter, N.A. Erickson, R. Große, K.E. Müller, D. Nobach, C. Herden, D. Rubbenstroth, and L. Mundhenk. 2024. Borna disease virus 1 infection in alpacas: Comparison of pathological lesions and viral distribution to other dead-end hosts. *Vet Pathol* 61:62-73.
- Goatley, L.C., G.L. Freimanis, C. Tennakoon, T.J. Foster, M. Quershi, L.K. Dixon, C.A. Batten, J.H. Forth, A. Wade, and C.L. Netherton. 2024. Full genome sequence analysis of African swine fever virus isolates from Cameroon. *PLoS one* 19:e0293049.
- Grause, J.F., M.C. Elschner, N.A. Ledesma, and G. Murphy. 2024. Development and validation of a chemiluminescent western blot assay for glanders (*Burkholderia mallei*) serodetection. *J Vet Diagn Invest* 36:283-286.
- Grayo, S., A. Camara, B. Doukouré, I. Ellis, C. Troupin, K. Fischer, J. Vanhomwegen, M. White, M.H. Groschup, S. Diederich, and N. Tordo. 2024. Geographic Disparities in Domestic Pig Population Exposure to Ebola Viruses, Guinea, 2017-2019. *Emerg Infect Dis* 30:681-690.
- Hildebrand, L., C. Gerloff, B. Winkler, B.K. Eusemann, N. Kemper, and S. Petow. 2024. Japanese quails (*Coturnix Japonica*) show keel bone damage during the laying period—a radiography study. *Front Physiol* 15:1368382.
- Hofmann, J., R.G. Ulrich, C. Mehl, S. Drewes, J. Esser, M. Loyen, H. Zeichhardt, K. Schoppmeyer, L. Essen, W. Güthoff, and D.H. Krüger. 2024. Hantavirus Disease Cluster Caused by Seoul Virus, Germany. *Emerg Infect Dis* 30:133-135.
- Hohensee, L., D. Scheibner, A. Schäfer, H. Shelton, T.C. Mettenleiter, A. Breithaupt, A. Dorhoi, E.M. Abdelwhab, and U. Blohm. 2024. The role of PB1-F2 in adaptation of high pathogenicity avian influenza virus H7N7 in chickens. *Vet Res* 55:5.
- Höne, U., L. Schrader, R. Hölscher, I. Traulsen, and E.T. Krause. 2024. Measures to affect elimination behaviour of fattening pigs in a conventional housing system. *Front Anim Sci* 5:1331723.
- Hüttl, J., K. Reitt, M.L. Meli, T. Meili, E. Bönzli, B. Pineroli, J. Ginders, A. Schoster, S. Jones, G.B. Tyson, M.J. Hosie, N. Pusterla, K. Wernike, and R. Hofmann-Lehmann. 2024. Serological and Molecular Investigation of SARS-CoV-2 in Horses and Cattle in Switzerland from 2020 to 2022. *Viruses* 16:224.
- Joeres, M., P. Maksimov, D. Höper, S. Calvelage, R. Calero-Bernal, M. Fernández-Escobar, B. Koudela, R. Blaga, M. Globokar Vrhovec, K. Stollberg, N. Bier, S. Sotiraki, J. Sroka, W. Piotrowska, P. Kodym, W. Basso, F.J. Conraths, A. Mercier, L. Galal, M.L. Dardé, A. Balea, F. Spano, C. Schulze, M. Peters, N. Scuda, A. Lundén, R.K. Davidson, R. Terland, H. Waap, E. de Bruin, P. Vatta, S. Caccio, L.M. Ortega-Mora, P. Jokelainen, and G. Schares. 2024. Genotyping of European *Toxoplasma gondii* strains by a new high-resolution next-generation sequencing-based method. *Eur J Clin Microbiol Infect Dis* 43:355-371.

Just, P.N., M.J. Slater, C. Müller, and B. Köllner. 2024. Effects of two delivery matrix components, alginate and polyethylene glycol, on the intestinal tract and inflammatory response of juvenile rainbow trout, *Oncorhynchus mykiss*, Walbaum. *J World Aquacult Soc* 55:202-222.

Klein, L., U. Gerdes, S. Blome, A. Campe, and E. große Beilage. 2024. Biosecurity measures for the prevention of African swine fever on German pig farms: comparison of farmers' own appraisals and external veterinary experts' evaluations. *Porcine Health Manag* 10:14.

Knauf, S., L. Hisgen, E.O. Ågren, A.M. Barlow, M. Fährndrich, U. Voigt, L. Fischer, L. Grillová, L.K. Hallmaier-Wacker, M.J.L. Kik, J.C. Klink, J. Křenová, A. Lavazza, S. Lüert, M. Nováková, D. Čejková, C. Pacioni, T. Trogu, D. Šmajš, and C. Roos. 2024. High prevalence and genetic diversity of *Treponema paraluisleporidarum* isolates in European lagomorphs. *Microbiol Spect* 12:e0177423.

Krone, B., J. Hummel, A. Riek, M. Clauss, and M. Hünerberg. 2024. Comparative study of feeding and rumination behaviour of goats and sheep fed mixed grass hay of different chop length. *J Anim Physiol Anim Nutr* [Epub ahead of print; doi:10.1111/jpn.13928]

Kuderna, L.F.K., J.C. Ulirsch, S. Rashid, M. Ameen, L. Sundaram, G. Hickey, A.J. Cox, H. Gao, A. Kumar, F. Aguet, M.J. Christmas, H. Clawson, M. Haeussler, M.C. Janiak, M. Kuhlwilm, J. Orkin, T. Bataillon, S. Manu, A. Valenzuela, J. Bergman, M. Rouselle, F.E. Silva, L. Agueda, J. Blanc, M. Gut, D. de Vries, I. Goodhead, R.A. Harris, M. Raveendran, A. Jensen, I.S. Chuma, J. Horvath, C. Hvilson, D. Juan, P. Frandsen, J. Schraiber, F.R. de Melo, F. Bertuol, H. Byrne, I. Sampaio, I. Farias, J. Vasecchi, M. Messias, M.N.F. da Silva, M. Trivedi, R. Rossi, T. Hrbek, N. Andriaholinirina, C. Rabarivola, A. Zaramody, C.J. Jolly, J. Phillips-Conroy, G. Wilkerson, C. Abee, J.H. Simmons, E. Fernandez-Duque, S. Kanthaswamy, F. Shiferaw, D. Wu, L. Zhou, Y. Shao, G. Zhang, J.D. Keyyu, S. Knauf, M.D. Le, E. Lizano, S. Merker, A. Navarro, T. Nadler, C.C. Khor, J. Lee, P. Tan, W.K. Lim, A.C. Kitchener, D. Zinner, I. Gut, A.D. Melin, K. Guschanski, M.H. Schierup, R.M.D. Beck, I. Karakikes, K.C. Wang, G. Umapathy, C. Roos, J.P. Boubli, A. Siepel, A. Kundaje, B. Paten, K. Lindblad-Toh, J. Rogers, T. Marques-Bonet, and K.K.-H. Farh. 2024. Identification of constrained sequence elements across 239 primate genomes. *Nature* 625:735-742.

Lamberg, K., A. Viltrop, I. Nurmoja, M. Masiulis, P. Bušauskas, E. Oļševskis, M. Seržants, A. Laddomada, F. Ardelean, and K. Depner. 2024. The Effectiveness of Protection and Surveillance Zones in Detecting Further African Swine Fever Outbreaks in Domestic Pigs—Experience of the Baltic States. *Viruses* 16:334.

The Lancet-PPATS Commission on Prevention of Viral Spillover¹, T.C. Mettenleiter, and A.S. Winkler. 2024. Draft of WHO Pandemic Agreement plays down primary prevention. *Lancet* 403:525-526.

Lei, Y., L. Wolf-van Buerck, M. Honarpisheh, Y. Zhang, R. Schwinzer, B. Petersen, and J. Seissler. 2024. Neonatal islets from hPD-L1 transgenic pigs reduce immune cell activation and cellular rejection in humanized NSG mice. *Am J Transplant* 24:20-29.

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, U. Ziegler, M. Beer, R.A. Taylor, F. Bartumeus, M. Woolhouse, F.M. Aarestrup, L. Barzon, A. Papa, S.J. Lycett, and M.P.G. Koopmans. 2024. West Nile virus spread in Europe: Phylogeographic pattern analysis and key drivers. *PLoS Pathog* 20:e1011880.

Mehl, C., O.A. Adeyemi, C. Wylezich, D. Höper, M. Beer, C. Triebenbacher, G. Heckel, and R.G. Ulrich. 2024. Lymphocytic Choriomeningitis Virus Lineage V in Wood Mice, Germany. *Emerg Infect Dis* 30:399-401.

¹ Alders, R.G., J.H. Amuasi, S. Ashraf, D. Becker, S.A. Bukachi, S. Burza, S. Cleveland, O. El Omrani, N.A. Erundu, J. Machado Ferreira, L. Hassan, B. Li, J. Lloyd-Smith, T. Loch-Temzelides, W. Markotter, O. Ogbuaji, M. Peiris, D.U. Pfeiffer, R.K. Plowright, A. Popp, N. Redvers, B. Roche, J.E. Scanlon, N. Sizer, M. Vale, N.M. Vora, C. Walzer, and S. Worah

Mehl, C., C. Wylezich, C. Geiger, N. Schauerte, K. Mätz-Rensing, A. Nesseler, D. Höper, M. Linnenbrink, M. Beer, G. Heckel, and R.G. Ulrich. 2024. Use of Zoo Mice in Study of Lymphocytic Choriomeningitis Mammarenavirus, Germany (Response). *Emerg Infect Dis* 30:205-206.

Meletis, E., B. Conrady, P. Hopp, T. Lurier, J. Frössling, T. Rosendal, C. Faverjon, L.P. Carmo, J.J. Hodnik, L. Ozsvári, P. Kostoulas, G. van Schaik, A. Comin, M. Nielsen, T. Knific, J. Schulz, S. Šerić-Haračić, C. Fourichon, I.M.G.A. Santman-Berends, and A. Madouasse. 2024. Review state-of-the-art of output-based methodological approaches for substantiating freedom from infection. *Front Vet Sci* 11:1337661.

Möller, R., K. Kaiser, U. Baulain, B. Petersen, C. Detering, M. Ekhlesi-Hundrieser, R. Zimmermann, C. Mühlfeld, M. von Depka Prondzinski, C. Pfarrer, and S. Lehner. 2024. Haemostaseological Changes of VWF and FVIII during Pregnancy and the Oestrus Cycle in a Porcine Model of Von Willebrand Disease. *Hemato* 5:48-65.

Monecke, S., S.D. Braun, M. Collatz, C. Diezel, E. Müller, M. Reinicke, A. Cabal Rosel, A.T. Feßler, D. Hanke, I. Loncaric, S. Schwarz, S. Cortez de Jäckel, W. Ruppitsch, D. Gavier-Widén, H. Hotzel, and R. Ehricht. 2024. Molecular Characterization of Chimeric *Staphylococcus aureus* Strains from Waterfowl. *Microorganisms* 12:96.

Moskalenko, L., K. Schulz, V. Nedosekov, K. Mötus, and A. Viltrop. 2024. Understanding Smallholder Pigkeepers' Awareness and Perceptions of African Swine Fever and Its Control Measures in Ukraine. *Pathogens* 13:139.

Müller, J., J. Rietz, C. von Hoermann, F.J. Conraths, M.E. Benbow, O. Mitesser, J. Schlüter, T. Lackner, F. Reckel, and M. Heurich. 2024. Season, decay stage, habitat, temperature and carrion beetles allow estimating the post-mortem interval of wild boar carcasses. *Ecol Solut Evid* 5:e12305.

Murr, M., C. Freuling, D. Pérez-Bravo, C. Grund, T.C. Mettenleiter, A. Römer-Oberdörfer, T. Müller, and S. Finke. 2024. Immune response after oral immunization of goats and foxes with an NDV vectored rabies vaccine candidate. *PLoS Negl Trop Dis* 18:e0011639.

Najafi, P., C. Reimer, J.D. Gilthorpe, K.R. Jacobsen, M. Ramløse, N.-F. Paul, H. Simianer, J. Tetens, and C. Falker-Gieske. 2024. Genomic evidence for the suitability of Göttingen Minipigs with a rare seizure phenotype as a model for human epilepsy. *Neurogenetics* [Epub ahead of print; doi:10.1007/s10048-024-00750-2]

Nossol, C., P. Landgraf, M. Oster, S. Kahlert, A. Barta-Böszörményi, J. Kluess, K. Wimmers, B. Isermann, O. Stork, D.C. Dieterich, S. Dänicke, and H.-J. Rothkötter. 2024. Deoxynivalenol triggers the expression of IL-8-related signaling cascades and decreases protein biosynthesis in primary monocyte-derived cells. *Mycotoxin Res* [Epub ahead of print; doi:10.1007/s12550-024-00528-3]

Opsteegh, M., T. Cuperus, C. van Buuren, C. Dam-Deisz, C. van Solt-Smits, B. Verhaegen, M. Joeres, G. Schares, B. Koudela, F. Egberts, T. Verkleij, J.W.B. van der Giessen, and H.J. Wisselink. 2024. In vitro assay to determine inactivation of *Toxoplasma gondii* in meat samples. *Int J Food Microbiol* [Epub ahead of print; doi:10.1016/j.ijfoodmicro.2024.110643]

Punetha, M., S. Saini, S. Chaudhary, P.S. Yadav, K. Withworth, J. Green, D. Kumar, and W. Kues. 2024. Induced Pluripotent Stem Cells in the Era of Precise Genome Editing. *Curr Stem Cell Res Ther* 19:307-315.

Raabe, J., G. Raveendran, W. Otten, K. Homeyer, and T. Bartels. 2024. Research Note: Irritating flashing light or poultry-friendly lighting - are flicker frequencies of LED luminaires a potential stress factor in the husbandry of male fattening turkeys? *Poultry Sci* 103:103214.

Rekik, S., I. Hammami, O. Timoumi, D. Maghzaoua, M.K. Khbou, A. Schulz, M.H. Groschup, and M. Gharbi. 2024. A Review on Crimean-Congo Hemorrhagic Fever Infections in Tunisia. *Vector-Borne Zoonotic Dis* [Epub ahead of print; doi:10.1089/vbz.2023.0079]

- Rizk, A.M., M.M. Elsayed, A.A. Abd El Tawab, E.A. Soliman, T. Kozytska, H. Brangsch, L.D. Sprague, H. Neubauer, and G. Wareth. 2024. Phenotypic and genotypic characterization of resistance and virulence in *Pseudomonas aeruginosa* isolated from poultry farms in Egypt using whole genome sequencing. *Vet Microbiol* **292**:110063.
- Rogoll, L., K. Schulz, C. Staubach, E. Oļševskis, M. Seržants, K. Lamberg, F.J. Conraths, and C. Sauter-Louis. 2024. Identification of predilection sites for wild boar carcass search based on spatial analysis of Latvian ASF surveillance data. *Sci Rep* **14**:282.
- Roitberg, B., E.T. Krause, and C. Li. 2024. Editorial: Compensatory Growth: an Adaptation to Environmental Stress in Plants and Animals. *Front Plant Sci* **15**:1395038.
- Rossini, E., M. Bazzucchi, V. Trocchi, F. Merzoni, C. Bertasio, S. Knauf, A. Lavazza, and P. Cavadini. 2024. Identification and Characterisation of a Myxoma Virus Detected in the Italian Hare (*Lepus corsicanus*). *Viruses* **16**:437.
- Ruan, D., Y. Xuan, T.T.K.T. Tam, Z.X. Li, X. Wang, S. Xu, D. Herrmann, H. Niemann, L. Lai, X. Gao, M. Nowak-Imialek, and P. Liu. 2024. An optimized culture system for efficient derivation of porcine expanded potential stem cells from preimplantation embryos and by reprogramming somatic cells. *Nat Prot* [Epub ahead of print; doi:10.1038/s41596-024-00958-4]
- Rupprecht, C.E., T. Buchanan, F. Cliquet, T. Müller, B. Yakobson, and D.-K. Yang. 2024. A Global Perspective on Oral Vaccination of Wildlife against Rabies. *J Wildl Dis* [Epub ahead of print; doi:10.7589/JWD-D-23-00078]
- Sadeghi, B., M.H. Groschup, and M. Eiden. 2024. In silico identification of novel pre-microRNA genes in Rift valley fever virus suggest new pathomechanisms for embryo-fetal dysgenesis. *Virulence* **15**:2329447.
- Santoro, A., F. Santolamazza, S.M. Cacciò, G. La Rosa, D. Antolová, H. Auer, G. Bagnade, P. Bandelj, W. Basso, R. Beck, C.V. Citterio, R.K. Davidson, G. Deksnė, C.F. Frey, E. Fuglei, W. Glawischnig, B. Gottstein, J. Harna, H. Huus Petersen, J. Karamon, F. Jansen, J. Jarošová, P. Jokelainen, B. Lundström-Stadelmann, P. Maksimov, M. Miljević, M. Miterpáková, E. Moks, F. Origi, Z. Ozolina, M.-P. Ryser, T. Romig, M. Šarkūnas, N. Scorrano, U. Saarma, V. Šnábel, T. Sréter, G. Umhang, G. Vengušt, D. Žele Vengušt, and A. Casulli. 2024. Mitochondrial genetic diversity and phylogenetic relationships of *Echinococcus multilocularis* in Europe. *Int J Parasitol* [Epub ahead of print; doi:10.1016/j.ijpara.2024.01.003]
- Santos-Silva, S., D.F. Silva Dias Da Moraes, P. López-López, J. Paupério, J. Queirós, A. Rivero-Juarez, L. Lux, R.G. Ulrich, H.M.R. Gonçalves, W.H.M. van der Poel, M.S.J. Nascimento, and J.R. Mesquita. 2024. Detection of hepatitis E virus genotype 3 in an Algerian mouse (*Mus spretus*) in Portugal. *Vet Res Commun* [Epub ahead of print; doi:10.1007/s11259-024-10293-4]
- Schaffner, F., C. Silaghi, N.O. Verhulst, J. Depaquit, and A. Mathis. 2024. The Phlebotomine sand fly fauna of Switzerland revisited. *Med Vet Entomol* **38**:13-22.
- Schmalkuche, K., T. Rother, S. Besli, R. Schwinzer, R. Blasczyk, B. Petersen, and C. Figueiredo. 2024. Human PD-L1 Overexpression Decreases Xenogeneic Human T-cell Immune Responses Towards Porcine Kidneys. *Front Immunol* **15**:1279050.
- Schmidt, A., H. Zhang, S. Schmitt, C. Rausch, O. Popp, J. Chen, D. Cmarko, F. Butter, G. Dittmar, F. Lermyte, and M.C. Cardoso. 2024. The Proteomic Composition and Organization of Constitutive Heterochromatin in Mouse Tissues. *Cells* **13**:139.
- Spruit, C., D.I. Palme, T. Li, M. Ríos Carrasco, A. Gabarroca García, I. Sweet, M. Kuryshko, J.C.L. Maliepaard, K.R. Reiding, D. Scheibner, G.-J. Boons, E.M. Abdelwhab, and R.P. de Vries. 2024. Complex N-glycans are important for interspecies transmission of H7 influenza A viruses. *J Virol* [Epub ahead of print; doi:10.1128/jvi.01941-23]

Stojak, J., D. Rocha, C. Mörke, C. Kühn, V. Blanquet, and H. Taniguchi. 2024. Establishment of a cloning-free CRISPR/Cas9 protocol to generate large deletions in the bovine MDBK cell line. *J Appl Genet* [Epub ahead of print; doi:10.1007/s13353-024-00846-3]

Tenzin, T., E. Hikufe, N. Hedimbi, R. Athingo, M.B. Shikongo, T. Shuro, J. Ipinge, N. Herman, M. Naunyango, F. Haufiku, J. Peter, L. Hango, S. Gottlieb, K. Shoombe, N. Denzin, F. Busch, F. Lohr, M. Letshwenyo, G. Torres, C.M. Freuling, T. Müller, and A. Shilongo. 2023. Dog ecology and rabies knowledge, attitude and practice (KAP) in the Northern Communal Areas of Namibia. *PLoS Negl Trop Dis* **18**:e0011631.

Thomson, J., M. Joeres, G. Schares, E.A. Innes, and C.M. Hamilton. 2024. Detection of viable *Toxoplasma gondii* in retail venison. *Food Control* **160**:110354.

Vallbracht, M., M. Schnell, A. Seyfarth, W. Fuchs, R. Küchler, T.C. Mettenleiter, and B.G. Klupp. 2024. A Single Amino Acid Substitution in the Transmembrane Domain of Glycoprotein H Functionally Compensates for the Absence of gL in Pseudorabies Virus. *Viruses* **16**:26.

Veshkini, A., F. Dengler, L. Bachmann, W. Liermann, C. Helm, R. Ulrich, C. Delling, C. Kühn, and H.M. Hammon. 2024. *Cryptosporidium parvum* infection alters the intestinal mucosa transcriptome in neonatal calves: implications for immune function. *Front Immunol* **15**:1351427.

Victoria, C., G. Schulz, M. Klöhn, S. Weber, C.M. Holicki, Y. Brüggemann, M. Becker, G. Gerold, M. Eiden, M.H. Groschup, E. Steinmann, and A. Kirschnig. 2024. Halogenated Rocaglate Derivatives: Pan-antiviral Agents against Hepatitis E Virus and Emerging Viruses. *J Med Chem* **67**:289-321.

Wagner, H., M. Heller, A. Fawzy, C. Schnee, A. Nessler, U. Kaim, C. Ewers, T. Semmler, J. Spergser, T. Schultze, and T. Eisenberg. 2024. *Mycoplasma mycoides* subspecies *capri*, an uncommon mastitis and respiratory pathogen isolated in a German flock of goats. *Vet Microbiol* **290**:109996.

Wehrle, F., U. Moog, K. Donat, H. Köhler, and A. Klassen. 2024. Verbreitung der Paratuberkulose in Thüringer Schaf- und Ziegenherden. *Tierärztl Prax* **52**:25-32.

Welch, S.R., A.R. Garrison, D.A. Bente, F. Burt, J. D'Addiego, S. Devignot, S. Dowall, K. Fischer, D.W. Hawman, R. Hewson, A. Mirazimi, L. Ostereich, Z. Vatansever, J.R. Spengler, and A. Papa. 2024. Third International Conference on Crimean-Congo hemorrhagic fever in Thessaloniki, Greece, September 19-21, 2023. *Antivir Res* **225**:105844.

Wernike, K., and M. Beer. 2024. Comparison of bovine viral diarrhea virus detection methods: Results of an international proficiency trial. *Vet Microbiol* **290**:109985.

Wernike, K., F. Pfaff, and M. Beer. 2024. "Fading out" -genomic epidemiology of the last persistently infected BVDV cattle in Germany. *Front Vet Sci* **12**:96.

Wijburg, S.R., M.G.E. Montizaan, M.J.L. Kik, M. Joeres, G. Cardron, C. Luttermann, M. Maas, P. Maksimov, M. Opsteegh, and G. Schares. 2024. Drivers of infection with *Toxoplasma gondii* genotype type II in Eurasian red squirrels (*Sciurus vulgaris*). *Parasite Vector* **17**:30.

Veröffentlichungen in nicht referierten Zeitschriften/Conference Proceedings

Acosta, A., M. Barrera, D. Jarrín, A. Maldonado, J. Salas, G. Camargo, B. Mello, A. Burbano, E. Dela Torre, B. Hoffmann, and K. Dietze. 2024. Linking vector favourable environmental conditions with serological evidence of widespread Bluetongue virus exposure in livestock in Ecuador (Preprint). *Res Square* [Epub ahead of print; doi:10.21203/rs.3.rs-4004480/v1]

Almeida, M.V., M. Blumer, C.U. Yuan, P. Sierra, J.L. Price, F.X. Quah, A. Friman, A. Dallaire, G. Vernaz, A.L.K. Putman, A.M. Smith, D.A. Joyce, F. Butter, A.D. Haase, R. Durbin, M.E. Santos, and

E.A. Miska. 2024. Dynamic co-evolution of transposable elements and the piRNA pathway in African cichlid fishes (Preprint). bioRxiv [Epub ahead of print; doi: 10.1101/2024.04.01.587621]

ENETWILD Consortium, F. Occhibove, S. Knauf, C. Sauter-Louis, C. Staubach, V. Allendorf, A. Anton, S. Barron, H. Bergmann, C. Bröjer, E. Buzan, J. Cerny, N. Denzin, F. Gethöffer, A. Globig, J. Gethmann, M. Gonzálves, I. García-Bocanegra, T. Harder, F. Jori, O. Keuling, A. Neimanis, J. Neumann Heise, I. Pastori, P. Parreira Perin, J.M. Rijks, K. Schulz, T. Trogu, K. Plis, R. Vada, G. Vercher, N. Wischnewski, S. Zanet, and E. Ferroglio. 2024. The role of mammals in Avian Influenza: a review. EFSA Supporting Publ 21:8692E.

Handley, B.L., C. Gonzalez-Beiras, S. Tchatchouang, K. Aboh Hugues, L.A. Basing, A. Sylla, M.S. Kouamé-Sina, I. Amanor, P. Ndzomo, A. Aloumba, M. Bakheit, C. Müller, N. Borst, T. Haerpfer, E. Landmann, L. Becherer, S. Lüert, S. Frischmann, S. Burl, E. Njih Tabah, T. Crucitti, A. Tano, D. Arhinful, P. Awondo, S. Ngazoa Kakou, S. Eyangoh, K.K. Addo, S. Knauf, O. Mitjà, E.-M. Harding-Esch, and M. Marks. 2024. A Multi-Country, Diagnostic Accuracy Evaluation of a Loop Mediated Isothermal Amplification (LAMP) Test for Yaws (Preprint). SSRN J [Epub ahead of print; doi:10.2139/ssrn.4769105]

Hildebrand, L., S. Weigend, M. Kölln, S. Petow, and L. Schrader. 2024. Schadensbegrenzung betreiben. DGS Magazin 1/2024:16-19.

Kalbfleisch, T., S. McKay, B. Murdoch, D.L. Adelson, D. Almansa, G. Becker, L.M. Beckett, M.J. Benítez-Galeano, F. Biase, T. Casey, E. Chuong, E. Clark, S. Clarke, N. Cockett, C. Couldrey, B.W. Davis, C.G. Elsik, T. Faraut, Y. Gao, C. Genet, P. Grady, J. Green, R. Green, D. Guan, D. Hagen, G.A. Hartley, M. Heaton, S.J. Hoyt, W. Huang, E. Jarvis, J. Kalleberg, H. Khatib, K.-P. Koepfi, J. Koltcs, S. Koren, C. Kühn, T. Leeb, A. Leonard, G.E. Liu, W.Y. Low, H. McConnell, K. McRae, K. Miga, M. Mousel, H. Neibergs, R. O'Neill, T. Olagunju, M. Pennell, B. Petry, M. Pewsner, A.M. Phillippy, B.D. Pickett, P. Pineda, T. Potapova, S. Rachagani, A. Rhie, M. Rijnkels, A. Robic, N. Rodriguez Osorio, Y. Safonova, G. Schettini, R.D. Schnabel, N. Sirpu Natesh, M. Stegemiller, J.M. Storer, P. Stothard, C. Stull, G. Tosser-Klopp, G.M. Traglia, C. Tuggle, C.P. van Tassell, C. Watson, R. Weikard, K. Wimmers, S. Xie, L. Yang, T. Smith, and B. Rosen. 2024. RT2T: A Global Collaborative Project to Study Chromosomal Evolution in the Suborder Ruminantia (Preprint). Res Square [Epub ahead of print; doi:10.21203/rs.3.rs-3918604/v2]

Kuryshko, M., M. Landmann, C. Luttermann, R. Ulrich, and E.M. Abdelwhab. 2024. In turkeys, unlike chickens, the non-structural NS1 protein does not play a significant role in the replication and tissue tropism of the H7N1 avian influenza virus (Preprint). bioRxiv [Epub ahead of print; doi:10.1101/2024.01.29.57776]

Reichmann, J., C. Sarrazin, S. Schmale, C. Blaurock, A. Balkema-Buschmann, B. Schmitzer, and T. Salditt. 2024. Cytoarchitecture of SARS-CoV-2 infected hamster lungs by X-ray phase contrast tomography: imaging workflow and classification for drug testing (Preprint). bioRxiv [Epub ahead of print; doi:10.1101/2024.01.21.576083]

Reichmann, J., C. Sarrazin, S. Schmale, C. Blaurock, A. Balkema-Buschmann, B. Schmitzer, and T. Salditt. 2024. Cytoarchitecture of SARS-CoV-2 infected hamster lungs by X-ray phase contrast tomography: imaging workflow and classification for drug testing (Preprint). Research Square [Epub ahead of print; doi:10.21203/rs.3.rs-3958072/v1]

Rüster, V., C. Strube, C. Schnabel, H. Werner, S. Wieneke, G. Avaramidis, L. ten Bosch, and T. Bartels. 2024. Lila Licht gegen Rote Vogelmilben. DGS Magazin 75(3):28-31.

Stadler, J., S. Zwickl, S. Gumbert, M. Ritzmann, K. Lillie-Jaschniski, T. Harder, A. Graaf-Rau, V. Skampardonis, and M. Eddicks. 2024. Influenza surveillance in pigs: balancing act between broad diagnostic coverage and specific virus characterization (Preprint). Res Square [Epub ahead of print; doi:10.21203/rs.3.rs-3873860/v1]

Voigt, A., H. Kampen, E. Heuser, S. Zeiske, B. Hoffmann, D. Höper, M. Holsteg, F. Sick, S. Ziegler, K. Wernike, M. Beer, and D. Werner. 2024. Emergence of bluetongue virus serotype 3 in western

Germany, October 2023, and *ad-hoc* monitoring in *Culicoides* biting midges (Preprint). bioRxiv [Epub ahead of print; doi:10.1101/2024.02.26.582175]

Werner, D., A. Voigt, H. Kampen, K. Wernike, and M. Beer. 2024. Winzige Mücke, große Wirkung. Top agrar, <https://www.topagrar.com/rind/news/winzige-muecke-grosse-wirkung-20001313.html?upgrade=true>.

Wilharm, G., E. Skiebe, A. Łopińska, P.G. Higgins, K. Weber, C. Schaudinn, C. Neugebauer, K. Görlitz, G. Meimers, Y. Rizova, U. Blaschke, C. Heider, C. Cuny, S. Drewes, E. Heuser, K. Jeske, J. Jacob, R.G. Ulrich, M. Bochenski, M. Kasprzak, E. Burda, M. Ciepliński, I. Kaluga, Ł. Jankowiak, J.I. Aguirre, A. López-García, U. Höfle, Z. Jagiello, M. Tobótko, B. Janic, P. Zieliński, M. Kamiński, J. Frisch, J. Siekiera, A.F. Wendel, P. Brauner, U. Jäckel, M. Kaatz, S. Müller, A. Lübke-Becker, L.H. Wieler, J. von Wachsmann, L. Thrukonda, M. Helal, L. Epping, S.A. Wolf, T. Semmler, and L. Jerzak. 2024. On the ecology of *Acinetobacter baumannii* - jet stream rider and opportunist by nature (Preprint). bioRxiv [Epub ahead of print; doi:10.1101/2024.01.15.572815]

Buchbeiträge

Rodriguez-Diaz, C., C. Seboldt, and M. Rupnik. 2024. Non-human *Clostridioides difficile* Reservoirs and Sources: Animals, Food, Environment. In: Mastrantonio, P., and M. Rupnik (eds.), Updates on *Clostridioides difficile* in Europe, Advances in Experimental Medicine and Biology, Vol. 1435, Springer, Cham, ISBN: 978-3-031-42107-5 (print) / 978-3-031-42108-2 (online), doi:10.1007/978-3-031-42108-2_15, p. 329-350.

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

Habilitationen

--

Dissertationen

--

PhD Theses

--

Diplomarbeiten

--

Masterarbeiten

Crisóstomo, João Afonso Coutinho (IfE): Examination of a herd experiencing *Neospora caninum*-associated abortion by a mouse monoclonal antibody-based competitive ELISA (Universidade de Évora, Portugal)

Bachelorarbeiten

--