



## Publikationen des FLI 2021

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## Veröffentlichungen in referierten Zeitschriften

Abdel-Glil, M.Y., A. Chiaverini, G. Garofolo, A. Fasanella, A. Parisi, D. Harmsen, K.A. Jolley, M.C. Elschner, H. Tomaso, J. Linde, and D. Galante. 2021. A whole genome-based gene-by-gene typing system for standardised high resolution strain typing of *Bacillus anthracis*. *J Clin Microbiol* **59**:e02889-20.

Abdel-Glil, M.Y., P. Thomas, J. Linde, A. Busch, L.H. Wieler, H. Neubauer, and C. Seyboldt. 2021. Comparative in silico genome analysis of *Clostridium perfringens* unravels stable phylogroups with different genome characteristics and pathogenic potential. *Sci Rep* **11**:6756.

Abdel-Moneim, A.S., E.M. Abdelwhab, and Z.A. Memish. 2021. Insights into SARS-CoV-2 evolution, potential antivirals, and vaccines. *Virology* **558**:1-12.

Abdo, S.M., H. El-Adawy, H.F. Farag, H.A. El-Taweel, H. Elhadad, and A. Abdel-Moamen El-Badry. 2021. Detection and molecular identification of *Blastocystis* isolates from humans and cattle in northern Egypt. *J Parasit Dis* **45**:738-745.

Abed, A.H., A.M.S. Menshawy, M.M.A. Zeinoh, D. Hossain, E. Khalifa, G. Wareth, and M.F. Awad. 2021. Subclinical Mastitis in Selected Bovine Dairy Herds in North Upper Egypt: Assessment of Prevalence, Causative Bacterial Pathogens, Antimicrobial Resistance and Virulence-Associated Genes. *Microorganisms* **9**:1175.

Abkollo, H.M., N. Svitek, B. Oduor, E. Owino, S.P. Henson, S. Oyola, S. Munyao, N. Assad-Garcia, W. Fuchs, S. Vashee, and L. Steinaa. 2021. Rapid CRISPR/Cas9 Editing of Genotype IX African Swine Fever Virus Circulating in Eastern and Central Africa. *Front Genet* **12**:733674.

Adamek, M., J. Davies, A. Beck, L. Jordan, A.M. Becker, M. Mojzesz, K. Rakus, T. Rumiak, B. Collet, G. Brogden, K. Way, S.M. Bergmann, J. Zou, and D. Steinhagen. 2021. Antiviral actions of 25-hydroxycholesterol in fish vary with the virus-host combination. *Front Immunol* **12**:581786.

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. 2021. It is everywhere - a survey on the presence of carp edema virus in carp populations in Germany. *Transbound Emerg Dis* [Epub ahead of print; doi:10.1111/tbed.14225]

Adamek, M., F. Teitge, I. Baumann, V. Jung-Schroers, S. Abd El Rahman, R. Paley, V. Piackova, D. Gela, M. Kocour, S. Rakers, S.M. Bergmann, M. Ganter, and D. Steinhagen. 2021. Koi sleepy disease as a pathophysiological and immunological consequence of a branchial infection of common carp with carp edema virus. *Virulence* **12**:1855-1883.

Adfeldt, R., J. Schmitz, B. Kropff, M. Thomas, N. Monakhova, J.E. Hölper, B.G. Klupp, T.C. Mettenleiter, V. Makarov, and E. Bogner. 2021. Diazadispiroalkane derivatives - new viral entry inhibitors. *Antimicrob Agents Chemother* **65**:e02103-20.

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- Bäßler, S.C., Á. Kenéz, T. Scheu, C. Koch, U. Meyer, S. Dänicke, and K. Huber.** 2021. Association between alterations in plasma metabolome profiles and laminitis in intensively finished Holstein bulls in a randomized controlled study. *Sci Rep* **11**:12735.
- Bastian, M., U. Truyen, and M. Ganter.** 2021. Die neue Leitlinie zur Impfung von Wiederkäuern. *Prakt Tierarzt* **102**:856-863.
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- Bay, S., D. Begg, C. Ganneau, M. Branger, T. Cochard, J.P. Bannantine, H. Köhler, J.L. Moya, R.J. Whittington, and F. Biet.** 2021. Engineering synthetic lipopeptide antigen for specific detection of *Mycobacterium avium* subsp. *paratuberculosis* infection. *Front Vet Sci* **8**:637841.
- Beck, B., T. Grochow, G. Schares, R. Blaga, D. Le Roux, B. Bangoura, A. Dausgchies, and S.A. Fietz.** 2021. Burden and regional distribution of *Toxoplasma gondii* cysts in the brain of COBB 500 broiler chickens following chronic infection with 76K strain. *Vet Parasitol* **296**:109497.
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- Berguido, F.J., P.D. Burbelo, A. Bortolami, F. Bonfante, K. Wernike, D. Hoffmann, A. Balkema-Buschmann, M. Beer, W.G. Dundon, C.E. Lamien, and G. Cattoli.** 2021. Serological Detection of SARS-CoV-2 Antibodies in Naturally-Infected Mink and Other Experimentally-Infected Animals. *Viruses* **13**:1649.
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**Bhatia, B., W. Furuyama, T. Hoenen, H. Feldmann, and A. Marzi.** 2021. Ebola Virus Glycoprotein Domains Associated with Protective Efficacy. *Vaccines* **9**:630.

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**Biadlegne, F., P. Rademacher, Y.G. Jaimes de Sulbaran, B. König, A.C. Rodloff, U. Zedler, A. Dorhoi, and U. Sack.** 2021. Exosomes in serum-free cultures of THP-1 macrophages infected with *Mycobacterium tuberculosis*. *Mol Med Rep* **24**:815.

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**Binder, F., G. Gallo, E. Bendl, I. Eckerle, M. Ermonval, C. Luttermann, and R.G. Ulrich.** 2021. Inhibition of interferon I induction by non-structural protein NSs of Puumala virus and other vole-associated orthohantaviruses: phenotypic plasticity of the protein and potential functional domains. *Arch Virol* [Epub ahead of print; doi:10.1007/s00705-021-05159-y]

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**Borkute, R.R., S. Woelke, G. Pei, and A. Dorhoi.** 2021. Neutrophils in Tuberculosis: Cell Biology, Cellular Networking and Multitasking in Host Defense. *Int J Mol Sci* **22**:4801.

**Bouaicha, F., A. Eisenbarth, K. Elati, A. Schulz, B. Ben Smida, M. Bouajila, L. Sassi, M. Rekik, M.H. Groschup, and M.K. Khbou.** 2021. Epidemiological investigation of Crimean-Congo haemorrhagic fever virus infection among the one-humped camels (*Camelus dromedarius*) in southern Tunisia. *Ticks Tick-borne Dis* **12**:101601.

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**Bucherer, M., J. Holzhausen, F.J. Conraths, and C. Probst.** 2021. Infrastructure of animal farms: key constructional elements in terms of biosecurity based on experience from Germany. *Berl Münch Tierärztl Wschr* **134**, doi:10.2376/1439-0299-2020-37.

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

### Habilitationen

Hoenen, Thomas (IMVZ): Development and application of reverse genetics systems for filoviruses (Universität Greifswald)

Knauf, Sascha (IITG): Investigating Disease Reservoirs in the Context of Natural Ecosystems, One Health and Wildlife Health With Special Reference to the Yaws Case in Nonhuman Primates (Justus-Liebig-Universität Gießen)



## Dissertationen

**Allendorf, Valerie** (IfE): Zur Epidemiologie des Bunthörnchen-Bornavirus 1 in Hörnchenhaltungen in Deutschland und Europa (Freie Universität Berlin)

**Binder, Florian** (INNT): Characterization of Puumala Orthohantavirus - Host Interactions: From the Field to the Bench (Universität Greifswald)

**Halecker, Sabrina** (IVD): Peste des Petits Ruminants Virus (PPRV): optimization of diagnostic procedures and pathogenesis studies (Ludwig-Maximilians-Universität München)

**Hillert, Kirsten Regine** (IfE): Entwicklung der europäischen und nationalen Rechtsetzung zur Blauzungenkrankheit vor dem Hintergrund des Tierseuchengeschehens in den Jahren 2006 bis 2015 (Freie Universität Berlin)

**Jeske, Kathrin** (INNT): Rodent-borne *Leptospira* spp. and hantaviruses in Europe (Universität Greifswald)

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**Szillat, Kevin P.** (IVD): Virus characterization in an era of outbreaks (Universität Greifswald)

**Weise, Susann** (IfE): Erkennen des Beginns der klinischen Mastitis durch Auswertung der täglichen Aktivitäts- und Milchmengendaten von Milchkühen (Freie Universität Berlin)

**Zaack, Luca Mirko** (IMVZ): Advanced light microscopy to resolve spatio-temporal and spatio-morphological infection processes in vitro and in vivo (Universität Greifswald)

## PhD Theses

**Gutiérrez Añez, Juan Carlos** (ING): Role of melatonin in bovine gametes competence and preimplantation embryo development *in vitro* (Tierärztliche Hochschule Hannover)

## Diplomarbeiten

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## Masterarbeiten

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## Bachelorarbeiten

**Marx, Amelie** (IfE): ESBL/AmpC tragende *Escherichia coli* in der Schweinehaltung (Hochschule Neubrandenburg)