



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.

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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-Glil, M.Y., P. Thomas, J. Linde, K.A. Jolley, D. Harmsen, L.H. Wieler, H. Neubauer, and C. Seyboldt. 2021. Establishment of a Publicly Available Core Genome Multilocus Sequence Typing Scheme for *Clostridium perfringens*. *Microbiol Spectr* **9**:e00533-21.

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Bartels, T., J. Berk, K. Cramer, E. Kanitz, and W. Otten. 2021. Research Note: It's not just stress - Fecal contamination of plumage may affect feather corticosterone concentration. *Poultry Sci* **100**:101494.

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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)

Blaurock, Claudia (IMVZ): Genetic determinants for virulence and adaptation of avian influenza viruses H9N2 and H5N8 subtypes in poultry and mammals (Universität Greifswald)

Brandt, Janine (IMVZ): Functional analysis of the molecular interactions between ebolaviruses and host proteins (Universität Greifswald)

Calvelage, Sten (IVD): In-depth genomic analyses of lyssaviruses (Universität Greifswald)

García Soto, Silvia (IBIZ): A Whole-Genome sequencing-based study of the emergent multidrug-resistant *Salmonella enterica* subspecies *enterica* serovar *Infantis* clones in German broiler farms (Universität Leipzig)

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

Hartlaub, Julia (INNT): Beyond CCHFV : characterization of orthonairovirus infections in ruminants (Tierärztliche Hochschule Hannover)

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)

Jansen, Simon (ING): Genetical aspects of Bone stability in laying hens differing in phylogeny and performance level (Georg-August-Universität Göttingen)

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

Kameke, Daniela (IMED): Biting midges (Diptera: Ceratopogonidae) of the genus *Culicoides* LATREILLE - evaluation of their role as Schmallenberg virus vectors and investigation of their ecological aspects in Germany (Universität Greifswald)

Karte, Claudia (IVD): Einsatz moderner Sequenziertechniken für die Analyse des porzinen Darmmikrobioms und zur detaillierten Pathogencharakterisierung (Ludwig-Maximilians-Universität München)

Kauselmann, Karen (ITT): Attraktives Beschäftigungsmaterial zur Reduktion von Schwanz- und Ohrschäden beim Schwein (Universität Hohenheim)

King, Jacqueline (IVD): Genetic characterisation of highly pathogenic avian influenza viruses based on novel real-time nanopore sequencing (Ludwig-Maximilians-Universität München)

Körner, Sophia (IBIZ): Untersuchungen zur Vektorkompetenz von Zecken für *Coxiella burnetii* (Universität Leipzig)

Kuhlisch, Cornelius (IMED): Distribution, habitat binding and morphological peculiarities of selected mosquito species (Diptera: Culicidae) occurring in Germany (Universität Greifswald)

Lüder, Christiane (IfE): Retrospektive Analyse der Biosicherheit und der Wahrscheinlichkeit einer windvermittelten Übertragung von hochpathogenen aviären Influenzaviren zwischen putenhaltenden Betrieben in Nordwestdeutschland (Freie Universität Berlin)

Matthiesen, Svea (IfI): Charakterisierung zellautonomer Selbstverteidigung und pathogenvermittelter Gegenwehr in *Coxiella burnetii*-infizierten dendritischen Zellen und natürlichen Killerzellen (Universität Greifswald)

Meißner, Katharina (IfE): Langzeitstudie zum Vorkommen von Extended-Spectrum B-Laktamase-produzierenden *E. coli* in der konventionellen und ökologischen Schweinemast sowie bei Wildschweinen im Nordosten Deutschlands (Freie Universität Berlin)

Moharam, Ibrahim Mohamad Abdelrahman (IVD): Viral respiratory diseases complex: Investigation on the relevance of Newcastle disease virus in vaccinated poultry flocks in Egypt and characterization of further detected viruses (Freie Universität Berlin)

Mu, Yu (IfI): Functional and structural analysis of pestivirus E1 glycoprotein (Freie Universität Berlin)

Müller, Eva (IBIZ): Untersuchungen zur Antibiotikaresistenz und Virulenz von *Aliarcobacter cryaerophilus*- und *Aliarcobacter butzleri*-Isolaten von Wassergeflügel aus Thüringen (Universität Leipzig)

Parvizi, Omid (IBIZ): Overview of anaplasmosis in Arab countries in North Africa and the Middle East, and optimizing a commercial c-ELISA for camels (Freie Universität Berlin)

Polasky, Christina (IMP): Aktivierung CD8 α -charakterisierter $\gamma\delta$ -T-Zellsubpopulationen bei verschiedenen Hühnerlinien (Friedrich-Schiller-Universität Jena)

Potratz, Madlin (IMVZ): Pathogenicity Determinants in Field Rabies Virus Infection and *In Vivo* Tracking (Universität Greifswald)

Ries, Christina Lidwina (IVD): Developments on Diagnosis, Pathogenesis and Control of Bluetongue Disease Virus (Ludwig-Maximilians-Universität München)

Sake, Hendrik Johannes (ING): Erstellung von B4GALNT2-knockout Schweinen für die Xenotransplantation (Tierärztliche Hochschule Hannover)

Santos, Pauline Dianne (IVD): High-throughput sequencing based early warning and outbreak investigation (Universität Greifswald)

Schäfer, Alexander (IfI): Functional analyses of porcine T-cell responses upon viral infections (Universität Greifswald)

Schumann, Anja (IVD): Pestivirus-Replikons als Werkzeug für heterologe Genexpression und molekulare Charakterisierung (Universität Greifswald)

Stellfeld, Mareike (IBIZ): Evaluierung des diagnostischen Potenzials des rekombinanten *Coxiella burnetii*-Com1 Proteins für den serologischen Nachweis von Q-Fieber bei Schafen, Ziegen und Rindern (Universität Leipzig)

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

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

Tippelt, Lisa (IMED): Distribution and ecology of selected mosquito species (Diptera: Culicidae) in Germany (Universität Greifswald)

Weber, Saskia (IVD): Von Reservoir- bis Modelltier - Nachweis und Charakterisierung von zoonotischen Kuhpockenviren (CPXV) (Ludwig-Maximilians-Universität München)

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

Wendt, Lisa Marie (IMVZ): Characterisation of ebolavirus-host interactions (Universität Greifswald)

Wolff, Janika (IVD): Diagnosis, pathogenesis and control of capripox virus-induced diseases (Universität Greifswald)

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)

König, Rebecca (INNT): Expression von Epitopen der Rifttalfeiebvirus Glyoproteine und Evaluation ihrer immunogenen Wirkung (Tierärztliche Hochschule Hannover)

Diplomarbeiten

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Masterarbeiten

Baumann, Vanessa (ITT): Monitoring der Nutzung eines Auslaufs durch Mastschweine mittels UHF-RFID in einem Außenklimastall und Veränderungen in der Auslaufnutzung durch unterschiedliche Ausgestaltung des Außenbereichs (Universität Hohenheim)

Dreyer, Sylvia (IITG): Un-mystifying a buzzword: Qualitative analysis of the utilization of the term „human-animal-interface“ in One Health oriented research (Medizinische Hochschule Hannover)

Geers, Jessica (IVD): Establishing diagnostic strategies for rustrelavirus (RusV), a recently discovered neurotropic pathogen (Universität Köln)

Haake, Josephine (ING): Study of the ectopic expression of the germ plasm organizer Bucky ball in mammalian cells and embryos (Technische Hochschule Braunschweig)

Hemsing, Laura (ITT): Einfluss der sozialen Stellung in der Herde auf das Fress- und Liegeverhalten von Hausziegen (Humboldt-Universität zu Berlin)

Hund, Inga (INNT): Charakterisierung von potenziellen Endozytosemotiven in der zytoplasmatischen Domäne des Cedarvirus Glykoproteins (Universität Greifswald)

Ibrahimi, Mohamed (ING): Optimization of Pluripotency Induction in Murine Fibroblasts (Tierärztliche Hochschule Hannover)

Lauffer, Marius (IMVZ): Characterization of the host proteins Aly and RBM15 in the Ebola virus life cycle (Universität Greifswald)

Löschberger, Ulrike (IfI): Optimization of immune responses to vaccination by chemo-enzymatic coupling of ligands to Mycobacterium bovis BCG (Universität Greifswald)

Lückemann, Alina Kathrin (ITE): Auswirkung ätherischer Öle, mit unterschiedlichen Konzentrationen in der Futtermischung auf die Leistungs- und Eiqualitätsparameter sowie Befallsstärke mit roter Vogelmilbe (*Dermanyssus gallinae*) und damit verbundene Verhaltensweisen bei Legehennen in der fortgeschrittenen Legeperiode (Fachhochschule Südwestfalen - Standort Soest)

Reimers, Anna Louisa (ITT): Nutzung von erhöhten Ebenen und deren Einfluss auf Lauffähigkeit und Ängstlichkeit bei Masthühnern (Georg-August-Universität Göttingen)

Schwotzer, Henriette (IMVZ): Establishment of molecular detection methods to assess activation of the unfolded protein response by the arenavirus glycoprotein (Universität Greifswald)

Bachelorarbeiten

Marszalek, Aleksandra (IfI): Interferenz von Proteinen des Maul und Klauenseuche Virus mit dem angeborenen Immunsystem (Hochschule Zittau/Görlitz)

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

Rath, Justina Luise (IMVZ): Funktionalität von Ebola-Virus / Lloviu-Virus VP40-Chimären zur Produktion infektiöser Partikel (Universität Greifswald)

Tadewaldt, Nils (IMED): Generierung eines West-Nil-Virus Replikons (Universität Greifswald)

Wisnewski, Kira (IMED): Herstellung einer stabilen Zelllinie zur Generierung von West-Nil-Virus-ähnlichen Partikeln (Universität Greifswald)

Zacharias, Shamalla (ITT): Erfassung von Brustbeinschäden bei Legehennen (Universität Kassel)