



Publications of the FLI 2024

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compiled by: Anette Beidler
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Habilitation treatises, Doctoral, PhD, Diploma, Master and Bachelor theses

Habilitations

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Doctoral theses

Beckmüller, Elisabeth (ITE): Impacts of diets with reduced nitrogen and phosphorus concentrations on nutrient digestibility, balance, retention, and the chemical body composition of contemporary barrows (Tierärztliche Hochschule Hannover)

Ebinger, Arnt (IVD): Detektion und genetische Charakterisierung viraler Enzephalitiserreger mittels Hochdurchsatz-Sequenzierung und Metagenomdiagnostik (Universität Greifswald)

Ernst, Sonja (INNT): Tackling Animal Prion Diseases - A Genotyping and Prion Strain Typing Study (Tierärztliche Hochschule Hannover)

Fricke, Charlie (IfI): Investigating protective immune responses against SARS-CoV-2 infections in small animal models (Universität Greifswald)

Günther, Anne (IVD): Avian raptor surveillance - expert screening for highly pathogenic avian influenza viruses (clade 2.3.4.4b) (Ludwig-Maximilians-Universität München)

Haring, Viola (INNT, IVD): White-toothed shrews (genus *Crocidura*) - Small in size, but great in pathogen diversity (Ludwig-Maximilians-Universität München)

Hennig, Christin (IVD): Exploring the human-swine interface of Influenza A viruses (Ludwig-Maximilians-Universität München)

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Pickrodt, Chris (IMP): Paratuberkulose in Milchziegenhaltungen - Ermittlung von Infektionsquellen mit Relevanz für das Tiergesundheitsmanagement im Bestand (Justus-Liebig-Universität Gießen)

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Rogoll, Lisa (IfE): African swine fever in wild boar: targeted surveillance, seasonal patterns and stakeholder perceptions (Ludwig-Maximilians-Universität München)

Wagner, Stefanie (IMP): Charakterisierung der Auswirkungen von Tylosin und Chlorotoniol auf die Phylogenie und Funktionalität des intestinalen Mikrobioms junger Schweine durch Meta-Omics-Analysen (Friedrich-Schiller-Universität Jena)

PhD Theses

Agusi, Ebere Roseann (IITG): Identification of Reverse Spill-Over Transmission at High Risk Human-Animal Interface using Serological and Molecular Assays During Covid-19 Pandemic in Nigeria (University Nsukka, Nigeria)

Fernández, Juan Pablo (ING): Exploring strategies for generating genome-modified porcine embryos suitable for prospective xenotransplantation (Tierärztliche Hochschule Hannover)

Herbicht, Rebecca (ING): Bovine in vitro Embryo Production - Facing the Barriers from Various Perspectives (Tierärztliche Hochschule Hannover)

Rüster, Vanessa (ITT): Use of cold atmospheric plasma against poultry red mites (*Dermanyssus gallinae*) as an innovative component in an Integrated Pest Management (Tierärztliche Hochschule Hannover)

Diploma theses

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Master theses

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)

Dietzel, Friederike (IVD, ATB): Vorkommen von Pathogenen im Respirationstrakt von Wildwiederkäuern und Wildschweinen in Mecklenburg-Vorpommern (Universität Rostock)

Farooq, Muhammad Hamza (IMP): Exploring bacterial phytases: Bioinformatic screening and experimental verification (Friedrich-Schiller-Universität Jena)

Gebhard, Lara (ITT): Untersuchung des Trinkverhaltens von Fohlen nach der Geburt im Zusammenhang mit dem Geburtsverlauf (Georg-August-Universität Göttingen)

Gross, Tabea (IfI): Interspecies characterization of VEE virus replicon particle interaction with primary immune cells (Universität Greifswald)

Haile, Mihiret Shimelis (INNT): Detection of Orthonairovirus antibodies in ruminants using novel antigen candidates (Université der Tours, Universitat Autònoma de Barcelona, Hannover Medical School)

Hasan, Majdil Ilyas Hasan (IBIZ): Phenotypic and genotypic analysis of antimicrobial resistance in multiple drug-resistant *Klebsiella pneumoniae* isolates from humans (Anhalt University of Applied Sciences, Köthen)

Hochheiser, Elisa (IMVZ): Rabies virus-host interactions through phosphoprotein P: comparative analysis of virulent and attenuated virus strain (Universität Greifswald)

Kastner, Georg (IVD): Orthopoxvirus Evolution: Automated Genome Annotation, Advanced Phylogeny and Analysis of Genome Plasticity (Universität Greifswald)

Kudla, Madita (IMVZ): The Role of NXF1 in the Life Cycle of Arenaviruses (Universität Greifswald)

Lang, Annalena (IMVZ): In vitro und in vivo Charakterisierung des Pseudorabiesvirus (PrV) Impfstammes Bartha (K61) und der Doppelmutante K61- Δ UL21/US3 Δ Kin im Vergleich zum PrV Wildtypstamm Kaplan (Ka) und der Doppelmutante Ka- Δ UL21/US3 Δ Kin (Universität Greifswald)

McGuire, Megan (IITG): The Application of One Health: A Comparative and Ethical Analysis of African Swine Fever and Highly Pathogenic Avian Influenza Disease Control Policy in the European Union and United States (Université der Tours, Universitat Autònoma de Barcelona, Hannover Medical School)

Neuhof, Paul (IfI): Cell death patterns of mycobacteria-infected neutrophils under hypoxia (Universität Greifswald)

Okpako, Elohor (IMP): Implementation of a Bioinformatics Pipeline for the Analysis of Whole Genome Sequences from *Mycobacteria bovis* and *Mycobacteria caprae* (Université der Tours, Universitat Autònoma de Barcelona, Hannover Medical School)

Rath, Justina Luise (IVD): Establishment of the detection of neurotropic viruses using Digoxigenin-labelled RNA probes (Universität Greifswald)

Waizer, Miriam (IMVZ): Interaktion des Rabiesvirus mit neuronalen synaptischen Proteinen (Universität Greifswald)

Weißmann, Julia (IfI): Untersuchung des Einflusses von Phoca vitulina assoziierten Influenza A H10N7 NS1-Mutationen auf verschiedenen Wirtsfaktoren (Universität Greifswald)

Bachelor theses

Ahrens, Ava (ITT): Eignung zur Untersuchung von Sitzstangen für Legehennen (Georg-August-Universität Göttingen)

Haver, Cord (ITT): Einfluss der Größe der Abferkelbucht auf das Umdrehen nicht fixierter Sauen (Georg-August-Universität Göttingen)

Rohde, Benjamin Erik (IMVZ): Funktionalität unterschiedlicher Lyssavirus-Glycoproteine: Klonierung, Expression und Testung in einem Rabiesvirus in-trans Komplementierungssystem (Universität Greifswald)

Schens, Tim (IMVZ): Transport des Rabiesvirus Glykoproteins zu neuronalen synaptischen Membranen: Potenzielle Rolle zellulärer PDZ-Domänen (Universität Greifswald)

Taupitz, Nadine (IMP): Anpassung der Akoya-Multiplex-Staining-Methode zur Untersuchung der räumlichen Verteilung von Zellen im Zäkumgewebe von $\gamma\delta$ -T-Zell-Knockout- und Wildtyp-Hühnern (Fachhochschule Ernst Abbe Jena)

Wieneke, Nora (IfE): Beurteilung der Biosicherheit in deutschen Schweinebetrieben hinsichtlich der afrikanischen Schweinepest (Hochschule Stralsund)