



Publications of the FLI 2019

Table of Contents

Publications in peer-reviewed journals.....	2
Publications in non-peer reviewed journals/Conference Proceedings	28
Books/Book chapters.....	33
Habilitation treatises, Doctoral, PhD, Diploma, Master and Bachelor theses.....	34
Habitations	34
Doctoral theses	34
PhD Theses.....	36
Diploma theses	36
Master theses.....	36
Bachelor theses	37

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Publications in peer-reviewed journals

Abanda, B., A. Paguem, M.D. Achukwi, A. Renz, and A. Eisenbarth. 2019. Development of a Low-Density DNA Microarray for Detecting Tick-Borne Bacterial and Piroplasmid Pathogens in African Cattle. *Trop Med Infect Dis* 4:64.

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Habilitation treatises, Doctoral, PhD, Diploma, Master and Bachelor theses

Habilitations

Wernike, Kerstin (IVD): Schmallerberg virus, a novel emerging orthobunyavirus (Universität Rostock)

Doctoral theses

Bashar, Rouzbeh (IfE): Spatial Epidemiology of Rabies in Iran (Freie Universität Berlin)

Bühler, Susanne (ITE): Effects of peripartal energy supply and nicotinic acid supplementation on functional activity and gene expression of blood leukocytes and on serum antioxidant variables of periparturient dairy cows (Martin-Luther-Universität Halle-Wittenberg)

Cafarelli, Chiara Valentina (IMED): De novo genome sequencing and comparative stage-specific transcriptomic analysis of *Dirofilaria repens* (Universität Zürich)

Dudde, Anissa (ITT): The effects of Selection for Egg Yield on the Behaviour of Laying hens (Universität Bielefeld)

Forth, Leonie Franziska (IVD): Improved diagnostic metagenomics for virus discovery (Universität Greifswald)

Graaf, Annika (IVD): From low to high pathogenicity - Characterization of avian influenza viruses of subtypes H7 and H5 (Ludwig-Maximilians-Universität München)

Grümpel, Angelika Karin (ITT): Reducing tail biting in German weaner pigs - Risk factor identification and prevention using a management tool (Christian-Albrechts-Universität zu Kiel)

Gutjahr, Benjamin (INNT): Generation and characterization of antibodies against Rift Valley fever phlebovirus and evaluation of their therapeutic efficacy in a mouse model (Tierärztliche Hochschule Hannover)

Hassel, Rainer Hubertus (IfE): Rabies in Greater Kudu Antelope in Namibia: History, Epidemiological Studies and Vaccinology Experiments (Freie Universität Berlin)

Hartwiger, Julia (ITE): Effects of vernal ration and environment change from a total mixed ration to a rotational grazing system with moderate concentrate feed supply on performance, energy metabolism, rumen physiology and immune system of dairy cows in the midlactation (Tierärztliche Hochschule Hannover)

Henke, Julia Maria (IVD): Protection against transplacental transmission of Classical swine fever virus using live marker vaccine “CP7_E2alf” (Ludwig-Maximilians-Universität München)

Kaiser, Franziska Karola (ING): Untersuchungen zur Kryokonservierung geschlechtssortierter und unsortierter Schafbockspermien (Tierärztliche Hochschule Hannover)

Keßler, Catharina (IMVZ): Proteomanalyse der Partikel des Virus der afrikanischen Schweinepest und ASFV infizierter Säugetierzellen (Universität Greifswald)

Klafack, Sandro (IMED): Phylogeny of the Koi herpesvirus and development of a vaccine against Koi herpesvirus disease (Universität Greifswald)

Klemmer, Jessica (IBIZ): Q fever in Egypt: Epidemiological Survey of Coxiella burnetti-Specific Antibodies in Cattle, Buffaloes, Sheep, Goats and Camels (Ludwig-Maximilians-Universität München)

Malomane, Dorcus K. (ING): Retrieving patterns of genetic diversity in a global set of chicken breeds (Georg-August-Universität Göttingen)

Mißbach, Sophie (IfI): Die karzinoembryonale Antigen/schwangerschaftsspezifische Glykoprotein Genfamilie des Pferdes (Freie Universität Berlin)

Michel, Friederike (INNT): Monitoring and Pathogenesis of Flavivirus Infections in Wild Birds and Domestic Poultry in Germany (Tierärztliche Hochschule Hannover)

Mohamed, Ahmed Hatem Salaheldin Abdelhamid (IMVZ): Epidemiological investigations and molecular characterization of avian influenza viruses in poultry in Egypt (Freie Universität Berlin)

Niemann, Lisa (ING): Genetic relatedness and antimicrobial susceptibility of porcine respiratory tract pathogens *Streptococcus suis*, *Bordetella bronchiseptica* and *Pasteurella multocida* (Freie Universität Berlin)

Ryll, René (INNT): Identification and molecular characterization of small mammal-associated hepeviruses for the development of novel animal models (Universität Greifswald)

Schertz, Hanna (ITE): Investigations on the toxicokinetics, bioavailability and Sa/So ratio as a biomarker of Fumonisin B1 (FB1) after *iv* and *po* exposure in pigs and the impact of a feed additive with fumonisin esterase activity (Tierärztliche Hochschule Hannover)

Schmidt, Nadine (IMP): Effect of Shiga toxoid vaccination and vitamin E supplementation on shedding of Shiga toxin-producing Escherichia coli, immunological, health, and performance parameters in male Holstein calves (Justus-Liebig-Universität Gießen)

Schmitz, Rolf (ITE): Changes of performance energy efficiency, ruminal fermentation and animal health depending on energy concentration in roughage and amounts of concentrates in dairy cows during early lactation (Tierärztliche Hochschule Hannover)

Schön, Jacob (IVD): Entwicklung von reassortment-inkompetenten Lebendvakzinen gegen die aviäre Influenza auf Basis von Fledermaus-Influenzaviren (Albert-Ludwig-Universität Freiburg)

Schröder, Lars (IMVZ): Herstellung sicherer und wirksamer Lebendvakzine gegen die Koi Herpesvirus Infektion von Karpfen (Universität Greifswald)

PhD Theses

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Diploma theses

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Master theses

Barf, Lisa-Marie (IMP): Bioinformatic and in vitro comparison among Chlamydia spp. to elucidate chlamydial host specificity and phylogeny (Friedrich-Schiller-Universität Jena)

Blanco, Alba Rodríguez (IfI): Oncolytic properties of Newcastle disease virus on sarcomatoid pancreatic cancer (Brandenburgische Technische Universität Cottbus-Senftenberg)

Bögel, Franziska Theresa (ITE): Einfluss einer totalen Mischrätion-(TMR) oder weidebasierten Fütterung mit Kraftfutterergänzung auf die ruminale mikrobielle Rohproteinsynthese und Faserverdaulichkeit bei Milchkühen (Rheinische Friedrich-Wilhelms-Universität Bonn)

Brzoska, Laura (IfE): Analyse der Strukturen im deutschen Rinderhandelsnetzwerk (Universität Greifswald)

Christen, Michael (IMVZ): Vergleich unterschiedlicher Rabiesviren hinsichtlich Infektion, intrazellulärer Lokalisation und zellulärer Faktoren in primären Neuronenkulturen (Universität Greifswald)

Fernandes, Ana Isabel Martins (IfI): The impact of *Mycobacterium tuberculosis* diversity to the course of infection (Universidade do Porto)

Johannes, Maren (ITE): Einfluss unterschiedlicher Kraftfutter-Anteile in der Ration auf die mikrobielle Proteinsynthese bei Milchkühen (Hochschule Osnabrück)

Kämper, Lennart (IMVZ): Characterization of Lloviu virus proteins by reverse genetics (Universität Greifswald)

Kamphaus, Verena (ITT): Soziale Einflüsse auf das Verhalten von Legehennen mit hoher und niedriger Prävalenz für das Auftreten von Federpicken (Georg-August-Universität Göttingen)

Lötzsch, Henriette (IMVZ): Rolle der cytoplasmatischen Domäne des Pseudorabies Virus Glykoproteins gB für die Membranfusion und Infektion (Universität Greifswald)

Söllner, Jenny (ING): Introduction of CRISPR/Cas9 into parthenogenetically activated porcine zygotes by electroporation (Wageningen University & Research)

Ullrich, Stephanie (IMVZ): Generation and visualization of reporter gene expressing Influenza A viruses and visualization of influenza virus infection in murine lung tissue (Universität Greifswald)

Waßmann, Irke (NWG Arenavirus-Biologie): Impact of defective viral genomes and the nucleoprotein exonuclease domain on Tacaribe virus infection and the host cell antiviral response (Universität Greifswald)

Wöhnke, Elisabeth (IMED): Vector Competence of field-collected and laboratory reared floodwater mosquitoes for West Nile virus Lineages 1 and 2 (Universität zu Lübeck)

Bachelor theses

Ahlers, Mahelia (ITE): Einfluss der Energiekonzentration im Grundfutter auf die ruminale Protozoenkonzentration (Hochschule Anhalt)

Benneker, Nele-Sophie (INNT): Expression and purification of Nipahvirus L-peptides as antigens for antibody production (HAN University of Applied Sciences und Hochschule Bonn-Rhein-Sieg)

Braun, Stefanie (IMVZ): Analyse der Kompatibilität des Filovirus-Matrixproteins VP40 mit RNP-Proteinen mittels chimärer Minigenome (Universität Greifswald)

Duveneck, Sarah Gesine (ING): Kryokonservierung und molekulare Bewertung genetischer Ressourcen des Haushuhnes (Universität Bielefeld)

Güttner, Ann-Kathrin (IfE): Auswertung und Automatisierung eines Modells zur aviären Influenza migrierender Wildvögel (Hochschule Stralsund)

Pioch, Jonathan (IfI): Characterization of the intracellular anti-mycobacterial immune response against *M.bovis* BCG using CRISPR/Cas9 technology (Hochschule für Wirtschaft und Technik Berlin)

Thier, Annika (ITT): Analyse der Raumnutzung von Mastläufern in Abhängigkeit der Buchtenstrukturierung und des Platzangebotes (Universität Hohenheim)

Topallar, Selin (INNT): Die Bedeutung von N-Glykanen für die biologische Aktivität des Cedarvirus Fusionsprotein (Universität Greifswald)

Trinks, Alexander (IMP): Expression und Funktionsanalyse polymorpher Membranproteine von *Chlamydia psittaci* (Friedrich-Schiller-Universität Jena)

Walther, Maïke (ATB): Untersuchung einer porcinen Teschovirus-Infektion bei Hausschweinen mit neurologischen Symptomen (Martin-Luther-Universität Halle-Wittenberg)