



## Publications of the FLI 2012

### Table of Contents

Publications in peer-reviewed journals.....	2
Publications in non-peer reviewed journals/Conference Proceedings .....	23
Books/Book chapters.....	40
Habilitation treatises, Doctoral, PhD, Diploma, Master and Bachelor theses.....	41
Habitations .....	41
Doctoral theses .....	42
PhD Theses.....	43
Diploma theses .....	43
Master theses.....	43
Bachelor theses .....	44

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last updated: 14 November 2022

## Publications in peer-reviewed journals

- Abbas, T., H. Wilking, D. Höreth-Böntgen, and F.J. Conraths.** 2012. Contact structure and potential risk factors for avian influenza transmission among open-sided chicken farms in Kamalia, an important poultry rearing area of Pakistan. *Berl Münch Tierärztl Wschr* **125**:110-116.
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- Abdelwhab, E.M., C. Grund, M.M. Aly, M. Beer, T.C. Harder, and H.M. Hafez.** 2012. Influence of maternal immunity on vaccine efficacy and susceptibility of one day old chicks against Egyptian highly pathogenic avian influenza H5N1. *Vet Microbiol* **155**:13-20.
- Abdelwhab, E.M. and H.M. Hafez.** 2012. Insight into Alternative Approaches for Control of Avian Influenza in Poultry, with Emphasis on Highly Pathogenic H5N1. *Viruses* **4**:3179-3208.
- Akter, S.H., S. Häussler, D. Germeroth, D. von Soosten, S. Dänicke, K.-H. Südekum, and H. Sauerwein.** 2012. Immunohistochemical characterization of phagocytic immune cell infiltration into different adipose tissue depots of dairy cows during early lactation. *J Dairy Sci* **95**:3032-3044.
- Al Dahouk, S., E. Hofer, H. Tomaso, G. Vergnaud, P. Le Flèche, A. Cloeckaert, M.S. Koylass, A.M. Whatmore, K. Nöckler, and H.C. Scholz.** 2012. Intraspecies Biodiversity of the Genetically Homologous Species *Brucella microti*. *Appl Environ Microbiol* **78**:1534-1543.
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- Aschemann, M., P. Lebzien, L. Hüther, K.-H. Südekum, and S. Dänicke.** 2012. Effect of niacin supplementation on rumen fermentation characteristics and nutrient flow at the duodenum in lactating dairy cows fed a diet with a negative rumen nitrogen balance. *Arch Anim Nutr* **66**:303-318.
- Bandt, D., S. Monecke, C. Scott, A. Gall, B. Hoffmann, and R. Ehricht.** 2012. Economic high-throughput-identification of influenza A subtypes from clinical specimens with a DNA-oligonucleotide microarray in an outbreak situation. *Mol Cell Probes* **26**:6-10.
- Barnetova, I., M. Morovic, F. Strejcek, O. Østrup, P. Hyttel, H. Niemann, J. Laurincik, J. Fulka Jr., and H. Fulka.** 2012. RNA Polymerase II Transcriptional Silencing in Growing and Fully Grown Germinal Vesicle Oocytes Isolated From Gonadotropin-Stimulated and Non-Stimulated Gilts. *Mol Reprod Dev* **79**:697-708.
- Barth, M., S. Rickelt, E. Noffz, S. Winter-Simanowski, H. Niemann, P. Akhyari, A. Lichtenberg, and W.W. Franke.** 2012. The adhering junctions of valvular interstitial cells: molecular composition in fetal and adult hearts and the comings and goings of plakophilin-2 in situ, in cell culture and upon re-association with scaffolds. *Cell Tissue Res* **348**:295-307.
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## Habilitation treatises, Doctoral, PhD, Diploma, Master and Bachelor theses

### Habilitations

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## Doctoral theses

**Aschemann, Martina** (ITE): Effect of niacin on the efficiency of nitrogen utilisation in the rumen of dairy cows (Universität Bonn)

**Ballke, Simone** (IfI): Klinik und Pathologie von Scrapie im Mausmodell bei unterschiedlichen Inokulationsrouten (Justus-Liebig-Universität Gießen)

**Braukmann, Maria** (IMP): Wirt-Pathogen-Wechselwirkungen in Chlamydia psittaci- und Chlamydia abortus-infizierten Hühnerembryonen (Friedrich-Schiller-Universität Jena)

**Fiegl, Dorothee** (IfI): Intrazelluläre Mechanismen der MHC I Antigenpräsentation in Chlamydien-infizierten dendritischen Zellen (Eberhard-Karls-Universität Tübingen)

**Franz, Martin** (INNT): Vermehrung und Analyse des abnormalen Prion-Proteins mit Hilfe der Protein Misfolding Cyclic Amplification (Ernst-Moritz-Arndt-Universität Greifswald)

**Freyse, Susanne** (INNT): Studien zur Pathogenese und Charakterisierung Transmissibler Spongiformer Enzephalopathien der Ziege (Tierärztliche Hochschule Hannover)

**Gabriel, Claudia** (IVD): Classical and African Swine Fever in Domestic Pigs and European Wild Boar: Optimization of Control Strategies and Laboratory Diagnosis (Ludwig-Maximilians-Universität München)

**Gehrke, Kira** (IfI): Veränderungen der Expression von Neurofilamenten und des DISC1-Proteins im Gehirn nach neonataler Infektion von Lewis-Ratten mit dem Borna Disease Virus (Justus-Liebig-Universität Gießen)

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**Junge-Krämer, Sonja** (ING): Charakterisierung der Interaktion porciner Spermien mit uterinen Epithelzellen und der hiermit verbundenen Genexpression hinsichtlich der Modulation einer erfolgreichen Insemination (Tierärztliche Hochschule Hannover)

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**Wernike, Kerstin** (IVD): Establishment of a multiplex real-time PCR assay for the detection and differentiation of wild-type and glycoprotein E-deleted vaccine strains of bovine herpesvirus type 1 (Ludwig-Maximilians-Universität München)

## PhD Theses

**Feßler, Andrea T.** (ING): Comparative molecular analysis of methicillin-resistant isolates of *Staphylococcus aureus* and coagulase-negative *Staphylococcus* spp. from cases of mastitis among dairy cattle (Tierärztliche Hochschule Hannover)

**Hauschild-Quintern, Janet** (ING): Targeted genetic modification of the porcine genome using zinc-finger nucleases (Tierärztliche Hochschule Hannover)

**Schink, Anne-Kathrin** (ING): Studies on the prevalence, distribution and organization of extended-spectrum  $\beta$ -lactamase genes and transferable (fluoro)quinolone resistance genes among Enterobacteriaceae from defined disease conditions of companion and farm animals (Tierärztliche Hochschule Hannover)

## Diploma theses

**Drewes, Stephan** (INNT): Wirtsassoziation von Hantaviren in Deutschland (Ernst-Moritz-Arndt-Universität Greifswald)

**Jeske, Lisa** (IMB/Leitung): Entwicklung effizienter Algorithmen zur Vorhersage von Primern für die Multiplex-PCR von Influenza-A-Viren (Ernst-Moritz-Arndt-Universität Greifswald)

**Kunze, Michaela** (INNT): Herstellung, Charakterisierung und Vergleich rekombinanter Nukleokapsidproteine unterschiedlicher Krim-Kongo-Hämorrhagisches-Fieber-Viren (Ernst-Moritz-Arndt-Universität Greifswald)

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**Schröter, Christina** (IMB): Bedeutung essentieller Glykoproteine für die Membranfusion (Ernst-Moritz-Arndt-Universität Greifswald)

## Master theses

**Billerbeck, Carmen** (ING): Organisation und Lokalisation von Resistenzgenen bei Methicillin-resistenten *Staphylococcus aureus* (MRSA)-Isolaten von Rindern und Geflügel aus dem GERM-Vet-Programm 2008 und 2009 (Beuth-Hochschule für Technik Berlin)

**Deutsch, Falk** (ITE): Einfluss des Konzentratfutters in Mehl- oder Krümelform auf die Futteraufnahme und Leistungsparameter von Milchkühen (Georg-August-Universität Göttingen)

**Kasnitz, Nadine (IMP):** Untersuchungen zur Stabilität spezifischer Zielsequenzen der Genotypisierung im Genom von *Mycobacterium avium* subsp. *paratuberculosis* nach Kultivierung und Passagierung (Friedrich-Schiller-Universität Jena)

**Pohlmann, Eva (ITT):** Pilotstudie zur Entwicklung eines elektronischen Frühwarnsystems für Schwanzbeißausbrüche beim Schwein (Christian-Albrechts-Universität Kiel)

**Rubin, Konrad (IBIZ):** Untersuchung eines DNA Arrays für die Identifizierung und Charakterisierung von *Clostridium botulinum* (Fachhochschule Anhalt)

## Bachelor theses

**Eckroth, Elisa (IMB):** Strukturbasierte Mutationsanalysen am essentiellen Hüllglykoprotein gH des Pseudorabies Virus (Ernst-Moritz-Arndt-Universität Greifswald)

**Freund, Lisa (IBIZ):** Untersuchung zur Tenazität von *Bacillus anthracis* in Frischkäse und Evaluierung ausgewählter Detektionsmethoden bei Kontamination (Fachhochschule Jena)

**Hamel, Johannes (ITE):** Vergleich der in sacco-Abbaubarkeit von Trockensubstanz und verschiedenen Faserfraktionen der Silagen zweier Maishybriden (*Zea mays* L., brown midrib und konventionell) bei Milchkühen (Hochschule Osnabrück)

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**Karnebeck, Stefanie (IMB):** Untersuchungen zur intrazellulären Lokalisation von Lyssavirus Matrixproteinen (Ernst-Moritz-Arndt-Universität Greifswald)

**Rähse, André-Fabian (ITE):** Charakterisierung immunologischer und zellbiologischer Parameter in Blutzellen von Milchkühen mit subklinischer Ketose (Fachhochschule Flensburg)

**Schröter, Anna J. (IMB):** Speziespezifität der Zytoplasmadomäne von Lyssavirus Glykoproteinen (Ernst-Moritz-Arndt-Universität Greifswald)

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