STIFTUNG TIERÄRZTLICHE HOCHSCHULE HANNOVER
UNIVERSITY OF VETERINARY MEDICINE HANNOVER, FOUNDATION

Prof. Dr. Stefanie Becker

Date of Birth: 06.09.1977
Place of Birth: Kaiserslautern, Germany

University of Veterinary Medicine Hannover
Research Center for Emerging Infections
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Current position: Professor for Vector-borne-diseases at the University of Veterinary Medicine Hannover and group leader of the Division of Parasitology at the Research Center for Emerging Infections and Zoonoses

Professional Experience

07/2015 - present Professor for Vector-borne-diseases at University of Veterinary Medicine Hannover

06/14 - 06/15 Director of the Institute Infectiology (IMED) at Friedrich-Loeffler-Institute

Duties and interests:
1) Diagnostics and control of diseases of aquatic animals
2) Medical Entomology and Vector competence, Arbovirus evolution, Co-infections of viral and microbial pathogens, Head of BSL3 insectary

07/11 - 05/14 Leader of the Molecular Entomology Group at the Bernhard-Nocht-Institute for Tropical Medicine

Research Objectives:
- Vector competence of German mosquitoes for tropical viruses
- Insect immunity towards viral infections
- Arbovirus evolution and vector adaptation
- Surveillance and genetic characterization of German mosquito populations
- Co-infections of viral and microbial pathogens in insect vectors

03/07 - 05/11 Research associate (post-doc) at the Institute de Biologie Moleculaire et Cellulaire, CNRS (Prof. Jean-Luc Imlers group), Universite Louis Pasteur, Strasbourg

Research Objectives:
- Analysis of Drosophila innate immune response to viral infection
- The DExD/H-box helicase Dicer-2-mediated induction of antiviral activity in *Drosophila*
- RNA interference in negative-strand virus-infection,
- Comparative analysis of *Drosophila melanogaster* immune pathways in infection with ssRNA, dsRNA and DNA viruses

08/02 - 12/07 Research associate (PhD) at the Bernhard Nocht Institute for Tropical Medicine (Prof. Stephan Günthers group), Hamburg

Research Objectives

- Host-pathogen interactions
  - Analysis of global gene expression in Arenavirus-infected human hepatoma cells

- Virus genetics
  - Contribution of the construction of an artificial Lassa virus replicon system and analysis of viral replication mechanisms

- Antiviral therapy and diagnostics
  - Design and experimental testing of a therapeutic siRNA directed against Lassa virus
  - Characterization of the antiviral properties of zinc finger antiviral protein in Ebola and Marburg virus infection
  - Contribution to the characterization of the causative agent of severe acute respiratory syndrome (SARS)

PhD degree 2.2.2007 *Magna cum laude*

Education and Qualifications

10/97 - 07/02 Biology (Diploma) at University of Kaiserslautern
Diploma thesis:
- Analysis of the replication origin of linear plasmid SCP1 from *Streptomyces coelicolor* A3(2) via Knock out and Transposon mutagenesis
  Grade 1,33

06 - 09/00 Internship at the department of Zoology, University of Oxford
Role of protein phosphatases in signalling and *Drosophila* development

Additional Skills
Professional skills:
Training and supervision of training in BSL 3 and BSL 4 facilities
Courses in Fist Aid and Fire Security
Project leader course (Gentechnik Recht)

Management and Business:
Courses in European patent law, German civil law and business
Course in management (Team leading, Communication)
Course in Project management (EU consortia building and Grant application)

Memberships
Member of "Deutsche Zoonosen Plattform" since 2012
Member of "Deutsche Gesellschaft für Virologie" since 2013
Member of "Academia Net" since 2012