



Dr. Imke Steffen

Address: Department of Physiological
Chemistry / Research Center
for Emerging Infections
and Zoonoses
University of Veterinary Medicine
Bünteweg 17
30559 Hannover, Germany

Phone: +49 (0)511 953 6112
Fax: +49 (0)511 953 8585
E-mail: imke.steffen@tiho-hannover.de

Current
position: Junior Research Group Leader

**The project is funded by the
Federal Ministry of Education
and Research (BMBF)**



Family obligations: 1 child

Research Positions:

- 07/2017 present **Junior Research Group Leader**,
Institute for Physiological Chemistry and
Research Center for Emerging Infections and Zoonoses,
University of Veterinary Medicine, Hannover, Germany
- Identification of host-specific mechanisms of protection
against arthropod-borne flaviviruses
 - Comparative analyses of flavivirus pathogenesis in different
host species
- 02/2011 06/2017 **Postdoctoral Fellow** in the Laboratory of Dr. Graham Simmons,
Blood Systems Research Institute and Laboratory Medicine,
University of California San Francisco, CA
- Establishment of pseudotype and reverse genetics systems for
new and emerging RNA viruses
 - Identification of viral attachment and receptor molecules
 - High-throughput screening of serum samples for neutralizing
antibodies targeting hemorrhagic fever viruses
- 10/2007 01/2011 **PhD Candidate** in the Laboratory of Prof. Stefan Pöhlmann,
Department of Virology, Hannover Medical School, Germany
- Inhibition of HIV capsid assembly by small molecule
compounds
identified in a cell-free protein synthesis screen
 - HIV cell-to-cell transmission by cellular lectins
 - Alternative co-receptors for SIV cell entry into human cells
 - Proteolytic activation of the viral envelope proteins of SARS
coronavirus and influenza A virus
- 05/2006 09/2007 **M.Sc. Graduate Student and Research Assistant** in the
Laboratory of Prof. Albrecht Bufe, Department of Experimental
Pneumology, Ruhr-University Bochum, Germany:
- Identification of immunomodulatory substances in stable dust
extracts and their effect on the development of allergic asthma

EDUCATION

- 10/2007 - 01/2011 **PhD in Infection Biology**, Institute of Virology, Hannover Medical
School, Hannover, Germany. Advisor: Prof. Stefan Pöhlmann,
Thesis: "Identification and characterization of HIV capsid
assembly inhibitors", summa cum laude (excellent)
- 08/2005 - 04/2007 **M.Sc. in Biochemistry**, Experimental Pneumology, Ruhr-
University Bochum, Bochum, Germany. Advisor: Prof. Albrecht
Bufe, Thesis: "Identification of immunomodulatory substances
in stable dust extracts", (excellent)

10/2004 - 07/2005 **ERASMUS Program** for European Student Exchange, University of Coimbra, Coimbra, Portugal

10/2001 - 09/2004 **B.Sc. in Biochemistry**, Ruhr-University Bochum, Germany and Max-Planck Institute of Molecular Physiology, Dortmund, Germany. Advisor: Dr. Eva Wolf, Thesis: "Expression, purification and crystallization of the *Drosophila* period protein".

Awards and Fellowships

- **Postdoctoral Research Fellowship**, German Research Foundation (Deutsche Forschungsgemeinschaft, DFG) (July 2013 - June 2016)
- **PhD Prize for Outstanding Contribution to the Field of Infection Biology**, Hirte Foundation (January 2011) Imke Steffen, PhD Curriculum Vitae
- **First Prize Oral Presentation**, PhD program "Infection Biology", 2nd Retreat, Hannover Medical School, Germany (February 2010)
- **Young Investigator Award**, 17th Conference on Retroviruses and Opportunistic Infections, San Francisco, CA (February 2010)
- **Poster prize**, Master Class of Virology, Hannover Medical School, Germany (November 2009)
- **Young Investigator Award**, 16th Conference on Retroviruses and Opportunistic Infections, Montreal, Canada (February 2009)
- **Infection Biology PhD Fellowship**, Hannover Medical School, Germany (October 2007 - January 2011)

Additional skills and training:

Dec 2014 and Feb 2015 **Scientific Leadership and Management Course**, University of California San Francisco, San Francisco, CA

November 2008 **Research Skills Development Course**, Helmholtz Association and Imperial College London

July 2008 **Communication and Presentation Skills**, Helmholtz Association and Imperial College London

2007 - present **Extensive experience in biosafety level 3 operating procedures**, Hannover Medical School, Germany, Blood Systems Research Institute, San Francisco, CA and University of Veterinary Medicine, Hannover, Germany

April 2006 **Technical Qualification Course in Radiation Safety**, Central Isotope Laboratory, Ruhr-University Bochum, Germany

Presentations:

National Symposium on Zoonoses Research, Berlin, Germany, October 2017. "Emerging RNA viruses and their interaction with the human and animal host", Poster Presentation

35th Annual Meeting of the American Society for Virology, Blacksburg, VA, June 2016. "Serological prevalence of hemorrhagic fever viruses in Equatorial Africa", Oral Presentation

26th Annual Meeting of the German Society for Virology, Münster, Germany, April 2016. "Serological prevalence of hemorrhagic fever viruses in Equatorial Africa", Oral Presentation

33rd Annual Meeting of the American Society for Virology, Fort Collins, CO, June 2014. "Serological evidence for human Bas-Congo virus exposure in the Republic of the Congo", Oral Presentation

62nd Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC, Nov. 2013. "Characterization of the Bas-Congo virus glycoprotein and its function and use in pseudotyped viruses", Poster Presentation

1st Bay Area Symposium on Viruses, UC Berkeley, May 2011. "Identification and characterization of HIV capsid assembly inhibitors", Poster Presentation

Infection Biology Retreat, Hannover Medical School, Germany, Feb 2010. "Identification of HIV capsid assembly inhibitors", Oral Presentation

17th Conference on Retroviruses and Opportunistic Infections, San Francisco, CA, Feb 2010. "Identification of HIV capsid assembly inhibitors", Poster Presentation

16th Conference on Retroviruses and Opportunistic Infections, Montreal, Canada, Feb 2009. "Analysis of HIV-1 inhibition by an anionic polysaccharide isolated from the cyanobacterium *Arthrospira platensis*" and "HIV-1 transmission by platelets", Poster Presentation

Other contributions and memberships:

- Member of the Advisory Board of the German Research Platform for Zoonoses
- Session Chair at the 35th Annual Meeting of the American Society for Virology, 2016
- Head of the Organizing Committee for the BSRI Retreat 2014
- Ad-hoc Reviewer for PLoS One Open Access Journal
- Member of the American Society for Virology (ASV) since 2014
- Member of the International Society for Infectious Diseases (ISID) since 2011

Sie sind hier: [Kliniken & Institute](#) > [Forschungszentrum für Infektio...](#) > [Research Groups and Management...](#) > [AG Steffen](#) > [Project leader](#)

Dieses PDF-Dokument wurde dynamisch auf www.tiho-hannover.de erstellt.

Letzte Aktualisierung dieses Dokumentes: 19. Juni 2020

© Stiftung Tierärztliche Hochschule Hannover, Bünteweg 2, 30559 Hannover, Tel.: +49 511 953-60