

CURRICULUM VITAE

Prof. Dr. rer. nat. Nicole Fischer

Institute for Medical Mikrobiology

Virology and Hygiene

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EDUCATION:

2010/2011 **Habilitation and Venia Legendi**

Medical faculty, University of Hamburg

(Virology, Infectious Diseases and Microbiology)

1994-1998 PhD Thesis, Saarland University

Dr. rer. nat (Virology)

1989-1994 Biology Diploma study, Saarland University

Diplom Biologin (Mikrobiologie/Genetics/Biochemistry)

RESEARCH POSITIONS:

May 15 - today

Professor for Diagnostic and Molecular Virology,

University Medical Center Hamburg-Eppendorf, Institute for
Medical Microbiology, Virology and Hygiene.

Research focus:

Human Tumor Viruses: MCPyV Pathogenesis.

- *Role of Merkel cell polyomavirus (MCPyV) in Merkel cell cancer pathogenesis:*
 - *Molecular mechanisms of viral tumor proteins in tumor induction and progression applying in vitro cell culture systems and in vivo model systems.*
 - *Molecular characterization of viral oncoproteins applying genome wide studies (RNA-Seq; Chip-Seq)*
 - *Mechanisms of polyomavirus persistence*

Clinical relevant human Polyomaviruses BK Virus; JC Virus and MCPyV:

- *Identification and characterization of anti-viral inhibitors active against clinically relevant PyVs (e.g. BK, JC and MCPyV).*

Metagenomics/Metatranscriptomics to detect and identify pathogens in diagnostic specimen:

- *Development and application of pre-analytical and bioinformatical approaches to detect pathogens in clinical samples by next generation sequencing: support of epidemiological analysis of infectious disease outbreaks, support of conventional diagnostic techniques.*
- *Application of next generation sequencing to study the virome of different species.*

Jan. 06 – Apr. 15

Group leader, virology research

Institute for Medical Microbiology, Virology and Hygiene,
University Medical Center Hamburg-Eppendorf, Hamburg,
Germany
(Head of the institute: Prof. Dr. med. Martin Aepfelbacher)

Aug. 02 – Dez. 05

Assistant Specialist

Joint position between
Prof. Don Ganem, MD, Howard Hughes Medical
Institute, Department of Microbiology, University of California,
San Francisco, USA
(Since 2011: Global Head of Infectious Diseases Research at
Novartis) and
Prof. Joseph DeRisi, PhD, Howard Hughes Medical
Institute, Department of Biochemistry and Biophysics, University
of California, San Francisco, USA

Research focus:

- *Identification of novel viruses in acute and chronic diseases by DNA microarrays.*

März 99 – Jul. 02

Postdoctoral Fellow (DFG Stipendium)

Prof. Dr. Karsten Weis, Department of Molecular Cell Biology,
University of California, Berkeley, USA
(Since 2013: Department of Biochemistry, ETH Zürich,
Switzerland)

CURRICULUM VITAE Prof. Dr Nicole Fischer

Research focus:

- *Regulation of mRNA export and decay in Saccharomyces cerevisiae.*

MEMBERSHIPS:

- 1999 - today Gesellschaft für Virologie, GfV, www.g-f-v.org
- 2009 - today European Society for Virology, ESV, www.eusv.eu
- 2012 - today American Society for Microbiology, ASM, www.asm.org
- 2012 - today Deutsches Zentrum für Infektionsforschung, DZIF, www.dzif.de