

**Prof. Dr. Hans-Georg
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02/11/1958, Passau

Professor

SCIENTIFIC VITA

1977 - 1984 Medical School (Munich)
1985 MD in experimental virology (Munich)
1986 - 1989 PostDoc, Dept. of Molecular Biology, State Univ. New York at Stony Brook
1989 - 1993 Group leader, German Cancer Research Centre, Heidelberg
1990 Habilitation, University of Heidelberg
1993 - 1995 Head of junior department, German Cancer Research Centre, Heidelberg
1993 Offer for full professorship at the University of Münster, declined
1994 Offer for full professorship at the University of Ulm, declined
1995 - 1999 Full professor and head of department, Heinrich-Pette-Institute, Hamburg
1996 - 1999 Director, Heinrich-Pette-Institute, Hamburg
2000 – now Full professor and head of department for virology, University of Heidelberg
2004 – now Director Hygiene-Institute, University Heidelberg
2004 – now Coordinator research program “Infectious diseases”, University Heidelberg

COORDINATING FUNCTIONS

1994 – 1997 Speaker collaborative BMBF-funded AIDS-research grant University Heidelberg
1997 – 2000 Member steering committee SFB545, University Hamburg
1997 – 1999 Deputy speaker, DFG research group “RNA trafficking”
2001 – 2004 Coordinator EU (FP5) collaborative project HIV protease inhibitor resistance
2002 – 2005 Coordinator collaborative research project “Resistance of human pathogens” (Landesstiftung Baden-Württemberg)
2002 – now Speaker SFB544 “Control of tropical infectious diseases” University Heidelberg
2004 – now Member steering committee SFB638, University Heidelberg
2004 – now Member Rektoratskommission “BIOQUANT”
2005 – now Coordinator DFG central research program “Membrane envelopment”

FIELDS OF INTEREST

Molecular virology, cell biology of virus infection, HIV assembly and structure, virus entry and uncoating, viral proteases, antiviral drugs, resistance development, prevention of viral diseases

CURRENTLY FUNDED PROJECTS

SFB544, projects A6 and B11; SFB638, project A9, DFG-project on kinetics on viral entry; DFG-SPP1175; Landesstiftung Baden-Württemberg, German-Israeli-foundation, PROCOPE, DAAD, industry-support

Currently supervision of 3 diploma theses, 10 doctoral theses, 2 habilitation theses

PUBLICATIONS (10 selected publications since 2000):

Brügger, B., B. Glass, P. Haberkant, I. Leibrecht, F.T. Wieland and **H.-G. Kräusslich**. 2006. The HIV lipidome: A raft with an unusual composition. *Proc. Natl. Acad. Sci. USA* **103**: In press.

Briggs, J.A.G., K. Grünewald, B. Glass, F. Förster, **H.-G. Kräusslich** and S. Fuller. 2006. The mechanism of HIV-1 core assembly: insights from three-dimensional reconstructions of authentic virions. *Structure* **14**: 15-20.

Ternois F., J. Sticht, S. Duquerroy, **H.-G. Kräusslich** and F. A. Rey. 2005. Crystal structure of the HIV-1 capsid protein C-terminal domain in complex with an inhibitor of particle assembly. *Nat. Struct. Mol. Biol.* **12**: 678-682.

Sticht, J., M. Humbert, S. Findlow, J. Bodem, B. Müller, U. Dietrich, J. Werner and **H.-G. Kräusslich**. 2005. A Peptide Inhibitor of HIV-1 Assembly in vitro. *Nat. Struct. Mol. Biol.* **12**: 671-677.

Wakita, T., T. Pietschmann, T. Kato, T. Date, M. Miyamoto, Z. Zhao, K. Murthy, A. Habermann, **H.-G. Kräusslich**, M. Mizokami, R. Bartenschlager and T.J. Liang. 2005. Production of infectious hepatitis C virus in tissue culture from a cloned viral genome. *Nat. Med.* **11**: 791-796.

Müller, B., J. Daecke, O.T. Fackler, M.T. Dittmar, H. Zentgraf and **H.-G. Kräusslich**. 2004. Generation of a fluorescently labelled infectious HIV-1 derivative. *J. Virol.* **78**: 10803-10813.

Briggs, J.A.G., M.N. Simon, I. Gross, **H.-G. Kräusslich**, S.D. Fuller, V.M. Vogt and M.C. Johnson. 2004. The stoichiometry of Gag protein in HIV-1. *Nat. Struct. Mol. Biol.* **11**: 672-675.

von Schwedler, U., M. Stuchell, B. Müller, D. Ward, H.-Y. Chung, E. Morita, H. E. Wang, T. Davis, G.-P. He, D. M. Cimbora, A. Scott, **H.-G. Kräusslich**, J. Kaplan, S. G. Morham and W. I. Sundquist. 2003. The Protein Network of HIV Budding. *Cell* **114**: 701-713.

Briggs, J.A.G., T. Wilk, R. Welker, **H.-G. Kräusslich** and S. D. Fuller. 2003. The structural organization of authentic HIV-1 and its core. *EMBO J.* **22**: 1707-1715.

Gross, I., H. Hohenberg, T. Wilk, K. Wieggers, M. Grättinger, B. Müller, S. Fuller and **H.-G. Kräusslich**. 2000. A conformational switch controlling HIV-1 morphogenesis. *EMBO J.* **19**: 103-113.