

## Curriculum vitae: Prof. Dr. Frank Kirchhoff

*Name, academic title:* Kirchhoff, Frank, Prof. Dr. rer nat et med habil  
*Date of birth:* April 24th, 1961

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**Present position:** W3 Professor and Head of Institute

### University education:

1996 Habilitation, Institute of Clinical and Molecular Virology, University of Erlangen, 1996, mentor: Prof. Dr. B. Fleckenstein  
1991 Promotion (Dr. rer. nat.), German Primate Center, Georg August-University in Göttingen, Prof. Dr. G. Hunsmann

### Academic Career

since 2009 W3 Professor and Director of the Institute of Molecular Virology, University Clinic Ulm  
2001 - 2008 C3 Professor: Department of Virology, University Clinic Ulm  
1994 - 2001 Lab head: Department of Virology, University of Erlangen  
1991 - 1994 Postdoc with Prof. R. Desrosiers, NERPRC, Harvard Med. School, USA

### Membership in advisory boards

Currently Editorial board of Advances in Virology, Cell  
Editor of the Journal of Virology and Retrovirology  
since 2016 Board of Directors Center for Quantum Bionosciences (ZQB)  
since 2014 Scientific Advisory Board of the Med. Faculty of Ulm  
2013 til 2017 University  
since 2012 Scientific Advisory Board German Society of Virology  
Co-Founder and scientific board of the Ulm Competence  
Center for Peptide Pharmaceuticals (UPEP)  
since 2011 Member of the International AIDS Society  
since 2009 Member of the German Academy of Sciences, Leopoldina  
since 2009

### Honors and awards

2017 Speaker of CRC 1279 "Exploiting the Human Peptidome for Novel Antimicrobial and Anticancer Agents"  
2016 KT Jeang Retrovirology prize  
2015 Cooperation award Science-Economy, Ulm University  
2014 Award of Research Building & Center for Quantum-Biosciences  
2013 (Budget €27Million) co-applicant & Founding Director  
2012 Ernst-Schering Award  
2010 Advanced ERC Grant ("Anti-Virome")

2009	AIDS research award of the German Society of Infectious Diseases
	Gottfried Wilhelm Leibniz award of the DFG
2008	Research award of the GlaxoSmithkline foundation for clinical research
2007	Merckle Research Award
2007	Innovation award of the German University Clinics
2007	AIDS research award of the Hector Foundation
2006	AIDS research award of the Heinz-Ansmann Foundation
2003	German AIDS Award from the German Society of AIDS
1998	Thiersch-award of the Medical faculty of the University of Erlangen
1995	AIDS research award from the German Soc. of Inf. Diseases

### Ten selected publications

Bibollet-Ruche F, Heigele A, Keele BF, Easlick JL, Decker JM, Takehisa J, Learn G, Sharp PM, Hahn BH, and Kirchhoff F. (2012). Efficient SIVcpz replication in human lymphoid tissue requires viral matrix protein adaptation. *J. Clin. Invest.* **122**, 1644-52.

Götz N, Sauter D, Usmani SM, Fritz JV, Goffinet C, Heigele A, Geyer M, Bibollet-Ruche F, Learn GH, Fackler OT, Hahn BH, Kirchhoff F. (2012). Reacquisition of Nef-mediated tetherin antagonism in a single in vivo passage of HIV-1 through its chimpanzee host. *Cell Host Microbe.* **12**, 373-80.

Sauter, D., Unterweger, D., Vogl, M., Usmani, S.M., Heigele, A., Kluge, S.F. Hermkes, E., Moll, M., Barker, E., Peeters, M., Learn, G.H., Bibollet-Ruche, F., Fritz, J.V., Fackler, O.T., Hahn, B.H., and Kirchhoff, F. (2012). Human Tetherin Exerts Strong Selection Pressure on the HIV-1 Group N Vpu Protein. *PLOS Pathogens* **8**, e1003093.

Schmökel J, Li H, Shabir A, Yu H, Geyer M, Silvestri G, Sodora DL, Hahn BH, Kirchhoff F. (2013). Link between Primate Lentiviral Coreceptor Usage and Nef Function. *Cell Reports* **5**:997-1009.

Kluge SF, Mack K, Iyer SS, Pujol FM, Heigele A, Learn GH, Usmani SM, Sauter D, Joas S, Hotter D, Bibollet-Ruche F, Plenderleith LJ, Peeters M, Geyer M, Sharp PM, Fackler OT, Hahn BH, and Kirchhoff F. (2014). Nef proteins of epidemic HIV-1 group O strains antagonize human tetherin. *Cell Host & Microbe* **16**:639-650

Sauter D, Hotter D, Van Driessche B, Stürzel CM, Kluge SF, Wildum S, Yu H, Baumann B, Wirth T, Hahn BH, Van Lint C, Kirchhoff, F. (2015). Differential regulation of NF- $\kappa$ B-mediated proviral and antiviral host gene expression by primate lentiviral Nef and Vpu proteins. *Cell Reports* **10**:586-599.

Krapp, C., Hotter, D., Gawanbacht, A., McLaren, P.J., Kluge, S.F., Stürzel, C.M., Mack, K., Reith, E., Engelhart, S., Ciuffi, A., Hornung, V., Sauter, D., Telenti, A., Kirchhoff, F. (2016). Guanylate Binding Protein (GBP) 5 Is an Interferon-Inducible Inhibitor of HIV-1 Infectivity *Cell Host & Microbe* **19**: 504-514.

Heigele, A., Kmiec, D., Regensburger, K., Langer, S., Peiffer, L., Stürzel, C.M., Sauter, D., Peeters, M., Pizzato, M., Learn, G.H., Hahn, B.H., Kirchhoff, F. (2016). The Potency of Nef-Mediated SERINC5 Antagonism Correlates with the Prevalence of Primate Lentiviruses in the Wild. *Cell Host & Microbe* **20**:381-91.

Joas, S., Parrish, E.H., Gnanadurai, C.W., Lump, E., Stürzel, C.M., Parrish, N.F., Learn G.H., Sauermann, U., Neumann, E., Mätz Rensing, K., Fuchs, D., Billingsley, J.M., Bosinger, S.E., Silvestri, G., Apetrei, C., Huot, N., Garcia-Tellez, T., Müller-Trutwin, M., Hotter, D., Sauter, D., Stahl-Hennig, C., Hahn, B.H., Kirchhoff, F. (2018) Species-specific host factors rather than virus intrinsic virulence determine primate lentiviral pathogenicity. *Nat Commun* **9**:1371.

Kmiec, D., Ananth, S., Hotter, D., Sparrer, K., Trautz, B., Ayouba, A., Peeters, M., Yao, Z., Stagljar, I., Passos, V., Goffinet, C., Sauter, D., Fackler, O.T. and Kirchhoff, F. (2018). SIVcol Nef counteracts SERINC5 by promoting its proteasomal degradation but does not enhance HIV-1 replication in human CD4+ T cells and lymphoid tissue. *PLOS Path.* **14**:e1007269.