

## Curriculum vitae: Prof. Dr. Ralf Bartenschlager



Department of Infectious Diseases, Molecular Virology  
University Hospital Heidelberg  
Im Neuenheimer Feld 345  
69120 Heidelberg  
Phone: 06221 56-4569  
Fax: 06221 56-4570  
E-mail: ralf\_bartenschlager@med.uni-heidelberg.de  
website:  
<http://www.klinikum.uni-heidelberg.de/Molecular-Virology.104862.0.html>

**May 29, 1958, Mannheim Head of the Department of Infectious Diseases,  
Molecular Virology / Professor (C4)**

### Education and employment record:

#### Academic Education

08/1987 – 12/1990 PhD work, Molecular Biology, Center for Molecular Biology,  
Heidelberg, supervised by Prof. Dr. Heinz Schaller  
07/1986 – 07/1987 Diploma work, Biology, Center for Molecular Biology,  
Heidelberg, supervised by Prof. Dr. Heinz Schaller  
10/1981 – 07/1987 Study of biology at the Heidelberg University

#### University degrees

1999 Habilitation in Virology, University of Mainz, mentor:  
1990 Ph.D thesis in Molecular Biology at Heidelberg University,  
Center for Molecular Biology, (Grade: summa cum laude;  
supervised by Prof. Dr. Heinz Schaller  
1987 Diploma in Biology, Center for Molecular Biology, Heidelberg  
(with distinction), supervised by Prof. Dr. Heinz Schaller

#### Employment

02/2002 - Full professor (C4) for “Molecular Virology”, Heidelberg  
University  
04/2000 – 01/2002 Full professor for molecular virology (C3), Institute for  
Virology, University of Mainz  
02/1999 – 03/2000 Associate professor at the Institute for Virology, University  
of Mainz  
01/1994 – 01/1999 Independent group leader at the Institute for Virology,  
University of Mainz  
01/1991 – 12/1993 Postdoc and leader of the HCV program, “Central research  
Unit” Hoffmann-LaRoche AG Basel, Switzerland

## **Scholarships / Awards / Editorships**

2008	Behring Lecture
2006	Aschoff Medal from the Medical Society Freiburg
2002	William Prusoff Young Investigator Award from the International Society for Antiviral Research
2001	Löffler-Frosch Preis of the Society for Virology
2000	Robert-Koch-Förderpreis of the Bergstadt Clausthal-Zellerfeld
1991	Award for the best Ph.D. thesis from the society for molecular biological research Heidelberg

## **Coordinating functions/ Memberships**

2010-now	Co-coordinator of the TTU Hepatitis, German Center for Infection Research (DZIF)
2010-now	Member of the European Association for the Study of the Liver (EASL)
2010-now	Member of the Steering Committee SFB/TRR 77 "Liver Cancer"
2009-now	Coordinator of the DFG-funded research unit FOR 1202 "Mechanisms of persistence of hepatropic viruses"
2008-now	Member of the International Society for Antiviral Research (ISAR)
2008-now	Member of the American Society of Microbiology (ASM)
2008-now	Member of the American Society for Biochemistry and Molecular Biology (ASBMB)
2008-now	Major (elected) reviewer of the German Research Council ('Fachkollegium' der DFG), re-elected in 2011
2008-now	Member of the Steering Committee Excellence cluster "CellNetworks"
2007- now	Member of the Scientific Advisory Board of the Hepatitis Network (HepNet)
2005-2008	Coordinator of the project "Infektionsstrategien humanpathogener Viren" of the Landesstiftung Baden-Württemberg
2005-now	Member of the Scientific Advisory Board of the Society for Virology (GfV)

## **Field of interest**

Molecular and cell biology HCV and DENV infection; virus-host cell interaction, especially how viral and cellular factors regulate the viral replication cycle; live cell imaging and electron microscopy of HCV/ DENV replication compartments; virus assembly and involved host cell factors; mathematical modeling of virus replication and the race with the innate immune response; innate immunity against HCV and DENV; mechanism of viral RNA recognition by pattern recognition receptors; interferon response and viral counter measures; antiviral therapy and therapy resistance; mode-of-action of selected antiviral compounds. For further details see selected publications.

## 10 selected Publications:

1. Romero-Brey I, Merz A, Chiramel A, Lee JY, Chlanda P, Haselman U, Santarella-Mellwig R, Habermann A, Hoppe S, Kallis S, Walther P, Antony C, Krijnse-Locker J, **Bartenschlager R**. 2012. Three-dimensional architecture and biogenesis of membrane structures associated with hepatitis C virus replication. *PLoS Pathog* 8(12):e1003056.
2. Ruggieri A, Dazert E, Metz P, Hofmann S, Bergeest JP, Mazur J, Bankhead P, Hiet MS, Kallis S, Alvisi G, Samuel CE, Lohmann V, Kaderali L, Rohr K, Frese M, Stoecklin G and **Bartenschlager R**. 2012. Dynamic oscillation of translation and stress granule formation mark the cellular response to virus infection. *Cell Host Microbe* 12:71-85.
3. Long G, Hiet MS, Windisch MP, Lee JY, Lohmann V, **Bartenschlager R**. 2011. Mouse hepatic cells support assembly of infectious hepatitis C virus particles. *Gastroenterology* 141(3):1057-66.
4. Bauhofer O, Ruggieri A, Schmid B, Schirmacher P, **Bartenschlager R**. Persistence of HCV in Quiescent Hepatic Cells during an Interferon-Induced Antiviral Response. *Gastroenterology* 143(2):429-38.
5. Reiss S, Rebhan I, Backes P, Romero-Brey I, Erfle H, Matula P, Kaderali L, Poenisch M, Blankenburg H, Hiet MS, Longerich T, Diehl S, Ramirez F, Balla T, Rohr K, Kaul A, Bühler S, Pepperkok R, Lengauer T, Albrecht M, Eils R, Schirmacher P, Lohmann V, **Bartenschlager R**. 2011. Recruitment and activation of a lipid kinase by hepatitis C virus NS5A is essential for integrity of the membranous replication compartment. *Cell Host Microbe* 9:32-45.
6. Welsch S, Miller S, Romero-Brey I, Merz A, Bleck CK, Walther P, Fuller SD, Antony C, Krijnse-Locker J, **Bartenschlager R**. 2009. Composition and three-dimensional architecture of the dengue virus replication and assembly sites. *Cell Host Microbe* 5:365-75
7. Dazert E, Neumann-Haefelin C, Bressanelli S, Fitzmaurice K, Kort J, Timm J, McKiernan S, Kelleher D, Gruener N, Tavis JE, Rosen HR, Shaw J, Bowness P, Blum HE, Klenerman P, **Bartenschlager R\***, Thimme R\*. 2009. Loss of viral fitness and cross-recognition by CD8+ T cells limit HCV escape from a protective HLA-B27-restricted human immune response. *J Clin Invest* 119:376-86.\* co-corresponding authors
8. Pietschmann T, A. Kaul, G. Koutsoudakis, A. Shavinskaya, S. Kallis, E. Steinmann, K. Abid, F. Negro, M. Dreux F.L. Cosset, and **R. Bartenschlager**. 2006. Construction and characterization of infectious intragenotypic and intergenotypic hepatitis C virus chimeras. *PNAS* 103:7408-7413.
9. Wakita, T\*, Pietschmann T\*, Kato T, Date T, Miyamoto M, Zhao Z, Murthy K, Habermann A, Kräusslich HG, Mizokami M, **Bartenschlager R\***, and Liang TJ. 2005. Production of infectious hepatitis C virus in tissue culture from a cloned viral genome. *Nature Medicine* 11:791-796. \* Equal contribution
10. Lohmann V, Körner F, Koch JO, Herian U, Theilmann L and **Bartenschlager R**. 1999. Replication of subgenomic hepatitis C virus RNAs in a hepatoma cell line. *Science* 285:110-113.