

## CURRICULUM VITAE

**Name:** Brett David Lindenbach, Ph.D.

**Promoted to:** Associate Professor, Department of Microbial Pathogenesis

**Term:** Beginning July 1, 2012

**School:** Yale University School of Medicine

**Education:** B.S., Biology, University of Illinois, 1990.  
Ph.D., Immunology, Washington University School of Medicine, 1999.

### **Career/Academic Appointments:**

1999 Postdoctoral Research Associate, Department of Molecular Microbiology, Washington University, St. Louis, MO  
1999–2002 Postdoctoral Research Associate, Howard Hughes Medical Institute, University of Wisconsin, Madison, WI  
2002–2005 Postdoctoral Research Associate, Center for the Study of Hepatitis C, Laboratory of Virology and Infectious Disease, The Rockefeller University, New York, NY  
2005–2006 Research Associate, Center for the Study of Hepatitis C, Laboratory of Virology and Infectious Disease, The Rockefeller University, New York, NY  
2006–2012 Assistant Professor, Section of Microbial Pathogenesis, Yale University School of Medicine, New Haven, CT  
2012–present Associate Professor, Department of Microbial Pathogenesis, Yale University School of Medicine, New Haven, CT

### **Professional Honors or Recognition:**

#### A) International/National/Regional:

2011, 2012 Finalist, Burroughs-Wellcome Fund Investigators in the Pathogenesis of Infectious Disease  
2009, 2011 Top 20 Peer Reviewers, Journal of Virology  
2012 Top 25 Peer Reviewers, Journal of Virology  
2007–2009 Edward Mallinckrodt, Jr. Foundation Scholar Award  
2005–2010 Howard Temin Award, National Cancer Institute/National Institutes of Health  
2004, 2005 Travel Award, Int'l Symposium on Hepatitis C Virus and Related Viruses.

#### B) University:

2006–2008 Kingsley Fellowship in Medical Research, Yale University  
1999 Spencer T. and Ann W. Olin Medical Scientist Fellow, Washington University School of Medicine  
1993–1994 Lucille P. Markey Student Fellowship in Human Pathobiology, Washington University School of Medicine

### **Grant History:**

#### A) Current Grants:

Agency: NIH/NIAID Northeast Biodefense Center Developmental Project  
ID#: U54 AI057158  
Title: "Targeting a cellular protease essential for flavivirus replication"  
P.I.: Ian Lipkin (Columbia University)

Project period: 09/15/2012 – 2/28/2014

Agency: NIH/NIAID  
ID#: R01 AI076259  
Title: “Molecular determinants of hepatitis C virus infectivity”  
P.I.: Brett Lindenbach, Ph.D.  
Project period: 07/01/2009 – 06/30/2013

Agency: NIH/NIAID  
ID#: R01 AI087925  
Title: “Molecular determinants of hepatitis C virus assembly”  
P.I.: Brett Lindenbach, Ph.D.  
Project period: 02/01/2010 – 01/31/2015

Agency: NIH/NIAID  
ID#: R01 AI089826  
Title: “Structure and function of the HCV replication complex”  
P.I.: Anna Pyle, Ph.D. and Brett Lindenbach, Ph.D. (Multi-PI Award)  
Project period: 07/01/2010 – 06/30/2015

Agency: NIH/NIDA  
ID#: R01 DA030420  
Title: “Parenteral HCV transmission: assessing risks and prevention strategies  
*in vitro*”  
P.I.: Robert Heimer, Ph.D.  
Project period: 09/01/2011 – 6/30/2016

B) Past Grants:

Agency: NIH/NCI  
I.D.#: K01 CA107092  
Title: “Hepatocellular carcinoma: targeting HCV replication”  
P.I.: Brett D. Lindenbach, Ph.D.  
Project period: 06/01/2005 – 05/31/2010

Agency: Edward Mallinckrodt, Jr. Foundation  
Title: “Dissecting crucial aspects of hepatitis C virus infectivity”  
P.I.: Brett D. Lindenbach, Ph.D.  
Project period: 03/01/2007 – 02/27/2010

Agency: American Cancer Society/Yale Cancer Center  
I.D.#: IRG-58-012-49  
Title: “Targeting HCV infectivity: physical properties of the virus”  
P.I.: Brett D. Lindenbach, Ph.D.  
Project period: 03/01/2007 – 02/27/2008

Agency: Yale Liver Center Pilot Award  
Title: “Visualizing hepatitis C virus infection”  
P.I.: Brett D. Lindenbach, Ph.D.  
Project period: 09/01/2007 – 08/31/2008

Agency: Yale Cancer Center Swebilius Award  
Title: "Improved Tools to Study Cellular Transformation by Hepatitis C Virus"  
P.I.: Brett D. Lindenbach, Ph.D.  
Project period: 05/01/2008 – 04/31/2009

Agency: Yale Cancer Center Targeted Area of Research Excellence Award  
Title: "Defining the Molecular Machinery for HCV Replication and Packaging"  
P.I.: Anna Marie Pyle, Ph.D.  
Project period: 06/01/2008 – 05/31/2009

**Lectures, Courses, Web-based Education:**

- 2013 Invited Speaker, Gordon Research Conference on Viruses & Cells. Barga, Italy, May 5-10, 2013.  
Invited Speaker, Pennsylvania State University, Dr. Craig Cameron, host. State College, PA, March 15, 2013.  
Invited Speaker, Albert Einstein College of Medicine at Yeshiva University, Dr. Margaret Kielian, host. New York, NY, March 7, 2013.  
Course Lecturer, Yale School of Medicine IMM 601b "Fundamentals of Research" February 19, 2013.  
Course Lecturer, Yale School of Medicine MBO 685b "Molecular Mechanisms of Microbial Pathogenesis" Jan. 29-31, 2013.
- 2012 Invited Speaker, University of Washington Department of Microbiology and NIDA Center, Dr. Michael Katze, host. Seattle, WA, Dec. 20, 2012.  
Invited Speaker, HIV Drug Resistance Program Conference on Trafficking of Viral Macromolecules. Frederick, Maryland, December 14, 2012.  
Invited Speaker, NIH NIDDK Liver Diseases Branch: "The ins and outs of HCV: new insights into replication and assembly" Bethesda, Maryland, December 13, 2012.  
Course Lecturer, Yale School of Medicine MBO 734 "Molecular Biology of Animal Viruses" October 17 and 22, 2012.  
Plenary Speaker, "Efficient *trans*-complementation of HCV NS3-5B." Abstract O-47, in 19<sup>th</sup> International Symposium on Hepatitis C Virus and Related Viruses, Venice, Italy, October 5-9, 2012.  
Invited Speaker, Symposium in Honor of Dr. Charles M. Rice, The Rockefeller University, New York, NY, August 25, 2012.  
Invited Speaker, 19th International Methods in Protein Structure Analysis Conference. Ottawa, Canada, June 26-28, 2012.  
Keynote Speaker, Scientific Advisory Board Meeting for the Cooperative Center for Human Immunology (U19), Harvard Medical School–Massachusetts General Hospital, June 8, 2012.  
Course Lecturer, Yale School of Medicine IMM 601b "Fundamentals of Research" February 28, 2012.  
Course Mentor, Yale School of Medicine MBO 700a "Seminal Papers on the Foundations of Modern Microbiology" February 22, 2012.  
Course Lecturer, Yale School of Medicine MBO 785b "Molecular Mechanisms of Microbial Pathogenesis" January 24-26, 2012.
- 2011 Invited Speaker, University of Heidelberg: "In a network of lines that enlance: genetics, biochemistry, and live cell imaging of hepatitis C virus assembly." Heidelberg, Germany, October 18, 2011.  
Invited Speaker, University of Lübeck: "In a network of lines that enlance:

- genetics, biochemistry, and live cell imaging of hepatitis C virus assembly.” Lübeck, Germany, October 17, 2011.
- Plenary Speaker, “Dynamic trafficking of HCV core protein to and from cellular lipid droplets during virus particle assembly.” Abstract O7.19, in 18th International Symposium on Hepatitis C Virus and Related Viruses, Seattle, WA, September 8-12, 2011.
- Course Lecturer (web-based), Yale-Centro Internacional de Entrenamiento e Investigaciones Medicas (Columbia), “Molecular Mechanisms of Microbial Pathogenesis” May 11, 2011.
- Course Lecturer, Yale School of Medicine MBI0 785b “Molecular Mechanisms of Microbial Pathogenesis” May 5-7, 2011.
- Invited Speaker, Achillion Pharmaceuticals, Inc.: “Hepatitis C virus nonstructural proteins coordinate RNA replication and virus particle assembly.” New Haven, CT, February 25, 2011.
- 2010 Course Mentor, Yale School of Medicine MBI0 700a “Seminal Papers on the Foundations of Modern Microbiology” November 17, 2010.
- Invited Speaker, Stony Brook University: “Taking apart hepatitis C virus assembly.” Stony Brook, NY, November 8, 2010.
- Course Lecturer, Yale School of Medicine MBI0 734 “Molecular Biology of Animal Viruses” October 20 and 27, 2010.
- Course Lecturer, Yale School of Medicine MBI0 785b “Molecular Mechanisms of Microbial Pathogenesis” September 21-23, 2010.
- Short Talk and Poster, “Hepatitis C virus NS2 protein mediates distinct, early steps in virus particle assembly.” Abstract 218, In Cell Biology of Virus Entry, Replication and Pathogenesis, Keystone Symposium, Taos, NM February 16-21, 2010.
- Course Lecturer, Yale School of Medicine MBI0 703b “Evasion of Host Defenses by Viruses, Bacteria and Eukaryotic Parasites” January 27, 2010.
- 2009 Invited Speaker, John Squire Lecture, Institute of Biomedical Research, University of Birmingham: “Deconstructing the process of hepatitis C virus assembly.” Birmingham, UK, December 11, 2009.
- Invited Speaker, University of Pennsylvania: “Deconstructing the process of hepatitis C virus assembly.” Philadelphia, PA, December 2, 2009.
- Plenary Speaker, “Genetic and physical interactions of NS2 and NS3-4A contribute to HCV particle assembly.” Abstract O-28, In 16th International Symposium on Hepatitis C Virus and Related Viruses, Nice, France, October 3-7, 2009.
- Invited Speaker, Hannover University Medical School: “Deconstructing the process of hepatitis C virus assembly.” Hannover, Germany, October 1, 2009.
- Course Lecturer, Yale School of Medicine MBI0 685b “Molecular Mechanisms of Microbial Pathogenesis” September 15-17 and September 22-24, 2009.
- Course Lecturer, Yale School of Medicine CB 601 “Molecular and Cellular Basis of Human Disease” May 11, 2009.
- Invited Speaker, Harvard Medical School/Massachusetts General Hospital Experimental Gastroenterology Research Unit: “New aspects of hepatitis C virus replication and virus assembly.” Boston, MA April 7, 2009.
- Course Lecturer, Yale School of Medicine MBI0 685b “Molecular Mechanisms of Microbial Pathogenesis” January 27-30, February 3-6.
- 2008 Course Mentor, Yale School of Medicine MBI0 700a “Seminal Papers on the

- Foundations of Modern Microbiology” November 12, 2008.  
Course Lecturer, Yale University MBB 449a/749a “Medical Impact of Basic Science” November 11, 2008.  
Course Lecturer, Yale School of Medicine MBIO 734 “Molecular Biology of Animal Viruses” October 20 and November 3, 2008.  
Plenary Speaker, Abstract 073 in 15th International Symposium on Hepatitis C Virus and Related Viruses: “Live imaging of HCV core protein in virus-producing cells.” San Antonio, TX, October 5 – 9, 2008.  
Invited Plenary Speaker, American Association for the Study of Liver Diseases Single Topic Conference on Viral Hepatitis Therapy, Lessons to be Learned from HIV: “HCV Structure, replication, and in vitro replication models.” Chicago, IL, July 24, 2008.  
Invited Speaker, University of Connecticut Health Sciences Center Molecular, Microbial & Structural Biology Seminar: “HCV: master manipulator of cellular membranes.” Farmington, CT, May 1, 2008.  
Course Lecturer, Yale School of Medicine MBIO 685b “Molecular Mechanisms of Microbial Pathogenesis” March 4-7 and April 1-4, 2008.  
Course Lecturer, Yale School of Medicine MBIO 703b “Evasion of Host Defenses by Viruses, Bacteria and Eukaryotic Parasites” January 30, 2008.
- 2007 Course Lecturer, Yale School of Medicine CB 601 “Molecular and Cellular Basis of Human Disease” April 9, 2007.  
Course Lecturer, Yale School of Medicine MBIO 685b “Molecular Mechanisms of Microbial Pathogenesis” February 20-23, 2007.
- 2006 Course Lecturer, Yale School of Medicine GEN 734a “Molecular Biology of Animal Viruses.” October 26, 2006.  
Invited Plenary Speaker, American Society of Virology Medical Virology Club: “Dissecting hepatitis C virus infectivity: in vitro, in vivo, and back again.” ASV 25th Annual Meeting, Madison, WI, July 15, 2006.
- 2005 Invited Speaker, AIDS Clinical Trials Group Fall 2005 Meeting: “Infectious hepatitis C virus: assays systems for drug development.” Baltimore, MD November 30, 2005.  
Invited Speaker, Yale University School of Medicine Microbiology Graduate Program Seminar Series: “Hepatitis C virus infectivity: *in vitro*, *in vivo*, and back again.” New Haven, CT, November 17th, 2005.  
Invited Speaker, Triangle Virology Association: “Hepatitis C virus infectivity: *in vitro*, *in vivo*, and back again.” North Carolina Biotechnology Center, Research Triangle Park, NC, October 27th, 2005.  
Plenary Speaker, Abstract 0222 in 12th International Symposium on Hepatitis C Virus and Related Viruses: “Cell-culture produced HCV is highly infectious in vitro and in vivo.” Montreal, Canada, October 2 – 6, 2005.
- 2004 Invited Speaker, Department of Gastroenterology, Weill Medical College of Cornell University: “Complete replication of HCV in cell culture.” New York, NY, December 9, 2004.  
Plenary Speaker, Abstract O-29 in 11th International Symposium on Hepatitis C Virus and Related Viruses “The C-terminal acidic domain of HCV NS4A is a critical determinant of replication.” Heidelberg, Germany, October 3-7, 2004.
- 2003 Invited Speaker, Dengue Virus – Molecular Basis of Cell Entry and Pathogenesis: “Molecular genetic tools for dissecting flavivirus particle assembly and entry.” Vienna, Austria, June 25-27, 2003.
- 2001 Short Talk, Abstract W3-3 in Scientific Program and Abstracts of the 20th Annual

- Meeting of the American Society for Virology: "Flock House virus subgenomic RNA3 synthesis is controlled by a long distance base pairing interaction in RNA1." Madison, WI, 2001.
- 1999 Invited Speaker, Leiden University School of Medicine: "Yellow fever virus NS1 protein: a secreted glycoprotein involved in RNA replication" Leiden, The Netherlands, June 7, 2001.
- 1999 Invited Speaker, University of Massachusetts Medical School: "Yellow fever virus NS1 protein – a secreted glycoprotein involved in flavivirus RNA replication." Worcester, MA, October 20, 1999.
- Short Talk, Abstract W15-3 in Scientific Program and Abstracts of the 18th Annual Meeting of the American Society for Virology "Tracking the flavivirus NS1 protein in RNA replication." University of Massachusetts, Amherst, MA, 1999.
- 1998 Invited Plenary Speaker, Fifth International Symposium on Positive Strand RNA Viruses: "Yellow fever virus NS1 protein and its relation to flavivirus RNA replication." St. Petersburg, FL, May 23-28, 1998.
- 1997 Short Talk, Abstract W44-1 in Scientific Program and Abstracts of the 16th Annual Meeting of the American Society for Virology: "Trans-complementation of yellow fever virus nonstructural protein 1." Bozeman, MT, July 19-23, 1997.

### **Professional Service**

#### **Peer Review Groups/Grant Study Sections**

- 2013 Ad hoc grant reviewer, NIH Virology A (VIRA) Study Section
- 2013 Ad hoc grant reviewer, NIH Virology B (VIRB) Study Section
- 2013 Ad hoc grant reviewer, French National Research Agency
- 2012 Ad hoc grant reviewer, NIH-NIAID R21/R33 Special Emphasis Panel
- 2012 Ad hoc grant reviewer, NIH-NIAID P01 Program Project Panel
- 2012 Chair, NIH-NIAID Special Emphasis Panel
- 2012 Ad hoc grant reviewer, Medical Research Council UK
- 2012 Ad hoc grant reviewer, NIH Virology A (VIRA) Study Section
- 2012 Ad hoc grant reviewer, Qatar National Research Fund
- 2011 Ad hoc grant reviewer, NIH-NIAID Special Emphasis Panel
- 2011 Ad hoc grant reviewer, NIH-NIAID P01 Study Section
- 2011 Ad hoc grant reviewer, U.S. National Science Foundation
- 2011 Ad hoc grant reviewer, University of Ghent Research Council
- 2011 Ad hoc grant reviewer, Qatar National Research Fund
- 2010–present Scientific Advisory Board, Massachusetts General Hospital Cooperative Center for Human Immunology (U19)
- 2010–present Grant Review Board, American Liver Foundation
- 2010 Ad hoc grant reviewer, NIH Virology A (VIRA) Study Section
- 2010 Ad hoc grant reviewer, The Wellcome Trust
- 2009 NIH Study Section, Hepatitis C Cooperative Research Centers (U19)
- 2009 Scientific Advisory Board, Antiviral Development, Avila Therapeutics Inc., Waltham, MA
- 2009 Ad hoc grant reviewer, Austrian Science Fund (FWF)
- 2007 Ad hoc grant reviewer, The Wellcome Trust
- 2006 Consultant to the Director for Scientific Evaluation, Institute Pasteur, Paris, France
- 2004 Ad hoc grant reviewer, Austrian Science Fund (FWF)

2004 Grant review study section, Pediatric Dengue Vaccine Initiative, Int'l Vaccine Institute

### **Journal Service**

2011–present Associate Editor, Hepatology  
2010–present Editorial Board, Viruses  
2010–present Reviews Editor, Frontiers in Virology  
2010 Guest Editor, Viruses (ISSN 1999-4915) Special Edition “Antivirals Against Hepatitis C Virus”  
2008–2010 Editorial Board, PLoS ONE  
2005–present Editorial Board, Journal of Virology  
2002–present Reviewer for Cell Host & Microbe, Gastroenterology, Hepatology, Journal of Experimental Medicine, Journal of General Virology, Journal of Infectious Diseases, Nature, Nature Medicine, Nature Communications, Nature Reviews Microbiology, PLoS, PLoS Pathogens, Proceedings of the National Academy of Sciences U.S.A., RNA, Science, and Virology

### **Professional Organizations**

2012–present Member, American Association for the Study of Liver Diseases  
2011–present Member, American Society for Cell Biology  
2011–present Member, New York Academy of Science  
2008–present Member, American Association for the Advancement of Science  
2007–present Member, Gesellschaft für Virologie (German Society for Virology)  
2006–present Lifetime Member, American Society for Virology  
2006–present Member, American Society for Microbiology

### **Meeting Planning/Participation**

2013 Session Chair, Keystone Symposium on Positive-Strand RNA Viruses, Boston, MA, April 28-May 3, 2013  
2012 Session Chair, 19th International Symposium on Hepatitis C Virus and Related Viruses, Venice, Italy, October 5-9, 2012  
2011 Session Chair, 18th International Symposium on Hepatitis C Virus and Related Viruses, Seattle, WA, September 8-12, 2011  
2010–2012 Member, American Society for Virology Program Planning Committee  
2010 Convener, RNA Virus Replication and Gene Expression Workshop II, American Society for Virology 29th Annual Meeting  
2006 Convener, Hepatitis Virus Workshop, American Society for Virology 25th Annual Meeting  
2004–present Abstract Reviewer, International Symposium on Hepatitis C & Related Viruses

### **Yale University Service**

#### **University Committees**

2010–present Member, Biosafety Level 3 Committee  
2007–present Member, BBS Microbiology Track Graduate Admissions Committee

#### **Medical School Committees**

2013 Reviewer, Yale Liver Center Pilot Study  
2012 Reviewer, Yale Cancer Center Leslie H. Warner Postdoctoral

2012 Fellowships for Cancer Research  
2012 Reviewer, Yale Center for Collaborative Molecular Discovery Award  
2007 Reviewer, Yale Cancer Center/American Cancer Society Pilot Project Awards

### Departmental Committees

2011–present Departmental Equipment Committee  
2010–present Organizer, Microbiology Annual Retreat  
2010–present Webmaster, Section of Microbial Pathogenesis

### Summary of Courses Taught

2012–present IMM 601b “Fundamentals of Research”  
2008–present MBI0 700a “Seminal Papers on the Foundations of Modern Microbiology”  
2008–present MBI0 703b “Evasion of Host Defenses by Viruses, Bacteria and Eukaryotic Parasites”  
2006–present GEN 734a “Molecular Biology of Animal Viruses”  
2006–present MBI0 685b “Molecular Mechanisms of Microbial Pathogenesis”  
2007, 2009 CB 601 “Molecular and Cellular Basis of Human Disease”  
2008 MBB 449a/749a “Medical Impact of Basic Science”

### Leadership Activities

2008–present Organized Yale Virology Faculty Lunch, to foster inter-departmental communication among Yale faculty who study viruses  
2012 Scientific Leadership & Management Course. Sponsored by the Yale Postdoctoral Affairs office; Kevin Grigsby (AAMC), course leader.  
2012 Mentorship Training, Sponsored by the Yale Center for Clinical Investigation; Eugene Shapiro and Patrick O'Connor, course leaders.

### Other Yale Activities

2009 Invited Speaker, Yale-New Haven Transplantation Center Grand Rounds

### Student Thesis Committees

2013 Outside committee member, Yan Zheng, Ph.D. (Albert Einstein College of Medicine at Yeshiva University)  
2011–present Chair, Nyree Maes, Microbiology (Yale)  
2011 Reader, Johanna Dean, Ph.D. (Monash University-Burnet Institute)  
2010–present Member, Camille Hardiman, Microbiology (Yale)  
2009–present Member, Andrew Kohlway, Molecular Biophys. & Biochem. (Yale)  
2009–2011 Thesis Advisor, Peniel Dimberu, Immunobiology (Yale)  
2007–2012 Member, Jonathan Chen, Ph.D., Immunobiology (Yale)  
2007–2011 Member, Yao Cheng, Ph.D., Pharmacology (Yale)  
2009 Reader, C. Brandon Ogunugafar, M.D.-Ph.D., Microbiology (Yale)  
2006–2008 Member, Nadya Morales, Ph.D., Microbiology (Yale)

### Bibliography

#### Peer-reviewed original research

1. Kuhner, K.H., B.D. Lindenbach, R.S. Wolfe. “Component A2 of methylcoenzyme M reductase system from *Methanobacterium thermoautotrophicum*  $\Delta$ H: nucleotide sequence



- and functional expression by *Escherichia coli*." *J. Bacteriol.* 1993, 175(10): 3195-3203.
2. Lin, C., B.D. Lindenbach, B.M. Prágai, D.W. McCourt, C.M. Rice. "Processing in the hepatitis C virus E2-NS2 region: identification of p7 and two distinct E2-specific products with different C termini." *J. Virol.* 1994, 68(8): 5063-5073.
  3. Lindenbach, B.D., C.M. Rice. "*trans*-complementation of yellow fever virus NS1 reveals a role in early RNA replication." *J. Virol.* 1997, 71(12): 9608-9617.
  4. Agapov, E.V., I. Frolov, I., B.D. Lindenbach, B.M. Prágai, S. Schlesinger, C.M. Rice. "Noncytopathic Sindbis virus RNA vectors for heterologous gene expression." *Proc. Natl. Acad. Sci. U.S.A.* 1998, 95(22): 12989-12994.
  5. Lindenbach, B.D., C.M. Rice. "Genetic interaction of flavivirus NS1 and NS4A proteins as a determinant of replicase function." *J. Virol.* 1999, 73(6): 4611-4621.
  6. Lindenbach, B.D., J.-Y. Sgro, P.G. Ahlquist. "Long-distance base pairing in Flock House virus RNA1 regulates subgenomic RNA3 synthesis and RNA2 replication." *J. Virol.* 2002, 76(8): 3905-19.
  7. Bredenbeek P.J., E.A. Kooi, B. Lindenbach, N. Huijkman, C.M. Rice, and W.J. Spaan. "A stable full-length yellow fever virus cDNA clone and the role of conserved RNA elements in flavivirus replication." *J. Gen. Virol.* 2003, 84(5): 1261-8.
  8. Kushner D.B., B.D. Lindenbach, V.Z. Grdzvelishvili, A.O. Noueiry, S.M. Paul, P. Ahlquist. "Systematic, genome-wide identification of host genes affecting replication of a positive-strand RNA virus." *Proc. Natl. Acad. Sci. U.S.A.* 2003, 100(26): 15764-9.
  9. Moradpour, D., M.J. Evans, R. Gosert, Z. Yuan, H.E. Blum, S.P. Goff, B.D. Lindenbach, C.M. Rice. "Insertion of green fluorescent protein into nonstructural protein 5A allows direct visualization of functional hepatitis C virus replication complexes." *J. Virol.* 2004, 75(14): 7400-7409.
  10. Pfeffer, S., A. Sewer, M. Lagos-Quintana, R. Sheridan, C. Sander, F.A. Grasser, L.F. van Dyk, C.K. Ho, S. Shuman, M. Chien, J.J. Russo, J. Ju, G. Randall, B.D. Lindenbach, C.M. Rice, V. Simon, D.D. Ho, M. Zavolan, T. Tuschl. "Identification of microRNAs of the herpesvirus family." *Nat. Methods* 2005, 2:269-276.
  11. Lindenbach, B.D., M.J. Evans, A.J. Syder, B. Wölk, T.L. Tellinghuisen, C.C. Liu, T. Maruyama, R.O. Hynes, D.R. Burton, J.A. McKeating, C.M. Rice. "Complete replication of hepatitis C virus in cell culture." *Science* 2005, 309:623-626.
  12. Tscherne, D.M., C.T. Jones, M.J. Evans, B.D. Lindenbach, J.A. McKeating, C.M. Rice. "Time and temperature-dependent activation of hepatitis C virus for pH-triggered entry." *J. Virol.* 2006, 80(4): 1734-1741.
  13. Lindenbach, B.D.\*, P. Meuleman\*, A. Ploss, T. Vanwollegem, A.J. Syder, J.A. McKeating, R.E. Lanford, S.M. Feinstone, M.E. Major, G. Leroux-Roels, C.M. Rice. "Cell culture-grown hepatitis C virus is infectious in vivo and can be recultured in vitro." *Proc. Natl. Acad. Sci. U.S.A.* 2006, 103(10): 3805-3809. \* shared first authorship
  14. von Hahn, T., B.D. Lindenbach, A. Boullier, O. Quehenberger, C.M. Rice, J.A. McKeating. "Oxidized low-density lipoprotein inhibits hepatitis C virus cell entry in human hepatoma cells." *Hepatology* 2006, 43(5): 932-942.
  15. Randall, G., L. Chen, M. Panis, A.K. Fischer, B.D. Lindenbach, J. Sun, J. Heathcote, C.M. Rice, A.M. Eswards, I.D. McGilvray "Silencing of USP18 Potentiates the Antiviral Activity of Interferon Against Hepatitis C Virus Infection." *Gastroenterology* 2006, 131(5): 1584-1591.
  16. Tscherne D.M., M.J. Evans, T. von Hahn, C.T. Jones, Z. Stamataki, J.A. McKeating, B.D. Lindenbach, C.M. Rice. "Superinfection exclusion in cells infected with hepatitis C virus." *J. Virol.* 2007, 81(8):3693-3703.
  17. Randall, G., M. Panis, J.D. Cooper, T.L. Tellinghuisen, K.E. Sukhodolets, S. Pfeffer, M.

- Landthaler, P. Landgraf, S. Kan, B.D. Lindenbach, M. Chien, D.B. Weir, J.J. Russo, J. Ju, M.J. Brownstein, R. Sheridan, C. Sander, M. Zavolan, T. Tuschl, and C.M. Rice. "Cellular cofactors affecting hepatitis C virus infection and replication." *Proc. Natl. Acad. Sci. U.S.A.* 2007, 104(31): 12884-12889.
18. Lindenbach, B.D., B.M. Prágai, R. Montserret, R.K.F. Beran, A.M. Pyle, F. Penin, and C.M. Rice. "The C-terminus of hepatitis C virus NS4A encodes an electrostatic switch that regulates NS5A hyperphosphorylation and viral replication." *J. Virol.* 2007, 81(17):8905-8918.
  19. Beran, R.K.F., B.D. Lindenbach, A.M. Pyle. "The NS4A protein of hepatitis C virus promotes RNA-coupled ATP hydrolysis by the NS3 helicase." *J. Virol.* 2009, 83(7):3268-3275.
  20. Phan T., R.K. Beran, C. Peters, I.C. Lorenz, B.D. Lindenbach. "Hepatitis C virus NS2 protein contributes to virus particle assembly via opposing epistatic interactions with the E1-E2 glycoprotein and NS3-NS4A enzyme complexes." *J. Virology* 2009, 83(17):8379-8395.
  21. Cheng Y., L.K. Tsou, J. Cai, T. Aya, G.E. Dutschman, E.A. Gullen, S.P. Grill, A.P. Chen, B.D. Lindenbach, A.D. Hamilton, Y.C. Cheng. "A novel class of meso-tetrakis-porphyrin derivatives exhibits potent activities against hepatitis C virus genotype 1b replicons in vitro." *Antimicrob. Agents Chemother.* 2010, 54(1):197-206.
  22. Harding M.J., C.M. Lepus, T.F. Gibson, B.R. Shepherd, S.A. Gerber, M. Graham, F.X. Paturzo, C. Rahner, J.A. Madri, A.L. Bothwell, B.D. Lindenbach, J.S. Pober. "An implantable vascularized protein gel construct that supports human fetal hepatoblast survival and infection by hepatitis C virus in mice." *PLoS ONE* 2010 5(4):e9987.
  23. Paintsil E., H. He, C. Peters, B.D. Lindenbach, R. Heimer. "Survival of hepatitis C virus in syringes: implication for transmission among injection drug users." *J Infect Dis.* 2010, 202(7):984-990.
  24. Phan T., A. Kohlway, P. Dimberu, A.M. Pyle, B.D. Lindenbach. "The acidic domain of hepatitis C virus NS4A contributes to RNA replication and virus particle assembly." *J. Virol.* 2011, 85(3):1193-204.
  25. Stapleford K., B.D. Lindenbach. "Hepatitis C virus NS2 coordinates virus particle assembly through physical interactions with the E1-E2 glycoprotein and NS3-NS4A enzyme complexes." *J Virol.* 2011, 85(4):1706-17.
  26. Counihan, N.A., S.M. Rawlinson, B.D. Lindenbach. "Trafficking of Hepatitis C Virus Core Protein During Virus Particle Assembly." *PLoS Pathogens*, 2011, 7(10): e1002302.
  27. Luo, D., S.C. Ding, A. Vela, A.S. Kohlway; B.D. Lindenbach, A.M. Pyle. "Structural insights into RNA recognition by RIG-I." *Cell.* 2011, 147(2):409-422.

**Editorials, Reviews, Chapters, Books:**

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