

# Birke Bartosch

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	7,153 citations	42 h-index	84 g-index
107 ext. papers	7,984 ext. citations	6.2 avg, IF	5.66 L-index

#	Paper	IF	Citations
85	Infectious hepatitis C virus pseudo-particles containing functional E1-E2 envelope protein complexes. <i>Journal of Experimental Medicine</i> , <b>2003</b> , 197, 633-42	16.6	908
84	Cell entry of hepatitis C virus requires a set of co-receptors that include the CD81 tetraspanin and the SR-B1 scavenger receptor. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41624-30	5.4	456
83	Rapid induction of virus-neutralizing antibodies and viral clearance in a single-source outbreak of hepatitis C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 6025-30	11.5	407
82	In vitro assay for neutralizing antibody to hepatitis C virus: evidence for broadly conserved neutralization epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 14199-204	11.5	265
81	An interplay between hypervariable region 1 of the hepatitis C virus E2 glycoprotein, the scavenger receptor BI, and high-density lipoprotein promotes both enhancement of infection and protection against neutralizing antibodies. <i>Journal of Virology</i> , <b>2005</b> , 79, 8217-29	6.6	238
80	Monoclonal antibody AP33 defines a broadly neutralizing epitope on the hepatitis C virus E2 envelope glycoprotein. <i>Journal of Virology</i> , <b>2005</b> , 79, 11095-104	6.6	234
79	Human serum facilitates hepatitis C virus infection, and neutralizing responses inversely correlate with viral replication kinetics at the acute phase of hepatitis C virus infection. <i>Journal of Virology</i> , <b>2005</b> , 79, 6023-34	6.6	229
78	Mitochondria-associated endoplasmic reticulum membrane (MAM) integrity is required for insulin signaling and is implicated in hepatic insulin resistance. <i>Diabetes</i> , <b>2014</b> , 63, 3279-94	0.9	227
77	Characterization of host-range and cell entry properties of the major genotypes and subtypes of hepatitis C virus. <i>Hepatology</i> , <b>2005</b> , 41, 265-74	11.2	221
76	Evidence for cross-genotype neutralization of hepatitis C virus pseudo-particles and enhancement of infectivity by apolipoprotein C1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 4560-5	11.5	213
75	Role of N-linked glycans in the functions of hepatitis C virus envelope glycoproteins. <i>Journal of Virology</i> , <b>2005</b> , 79, 8400-9	6.6	206
74	Redox Biology of Respiratory Viral Infections. <i>Viruses</i> , <b>2018</b> , 10,	6.2	187
73	Characterization of functional hepatitis C virus envelope glycoproteins. <i>Journal of Virology</i> , <b>2004</b> , 78, 2994-3002	6.6	184
72	Oxidative Stress during HIV Infection: Mechanisms and Consequences. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 8910396	6.7	166
71	HCV and oxidative stress in the liver. <i>Viruses</i> , <b>2013</b> , 5, 439-69	6.2	151
70	C-type lectins L-SIGN and DC-SIGN capture and transmit infectious hepatitis C virus pseudotype particles. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 32035-45	5.4	147
69	Neutralizing antibodies to hepatitis C virus (HCV) in immune globulins derived from anti-HCV-positive plasma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7705-10	11.5	128

68	The tight junction-associated protein occludin is required for a postbinding step in hepatitis C virus entry and infection. <i>Journal of Virology</i> , <b>2009</b> , 83, 8012-20	6.6	123
67	Cell entry of hepatitis C virus. <i>Virology</i> , <b>2006</b> , 348, 1-12	3.6	121
66	Hepatitis C virus-induced hepatocarcinogenesis. <i>Journal of Hepatology</i> , <b>2009</b> , 51, 810-20	13.4	114
65	Hepatitis C virus glycoproteins mediate low pH-dependent membrane fusion with liposomes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 3909-17	5.4	105
64	Receptor complementation and mutagenesis reveal SR-BI as an essential HCV entry factor and functionally imply its intra- and extra-cellular domains. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000310	7.6	100
63	Evidence and consequence of porcine endogenous retrovirus recombination. <i>Journal of Virology</i> , <b>2004</b> , 78, 13880-90	6.6	94
62	Oxidative stress, a trigger of hepatitis C and B virus-induced liver carcinogenesis. <i>Oncotarget</i> , <b>2017</b> , 8, 3895-3932	3.3	85
61	Disruption of calcium transfer from ER to mitochondria links alterations of mitochondria-associated ER membrane integrity to hepatic insulin resistance. <i>Diabetologia</i> , <b>2016</b> , 59, 614-23	10.3	85
60	Determinants of high titer in recombinant porcine endogenous retroviruses. <i>Journal of Virology</i> , <b>2004</b> , 78, 13871-9	6.6	80
59	Analysis of a highly flexible conformational immunogenic domain a in hepatitis C virus E2. <i>Journal of Virology</i> , <b>2005</b> , 79, 13199-208	6.6	79
58	The mouse IAPV endogenous retrovirus can infect cells through any of the five GPI-anchored EphrinA proteins. <i>Retrovirology</i> , <b>2011</b> , 8,	3.6	78
57	Vaccine-induced early control of hepatitis C virus infection in chimpanzees fails to impact on hepatic PD-1 and chronicity. <i>Hepatology</i> , <b>2007</b> , 45, 602-13	11.2	74
56	The exchangeable apolipoprotein ApoC-I promotes membrane fusion of hepatitis C virus. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 32357-69	5.4	71
55	Basic residues in hypervariable region 1 of hepatitis C virus envelope glycoprotein e2 contribute to virus entry. <i>Journal of Virology</i> , <b>2005</b> , 79, 15331-41	6.6	69
54	Xenotransplantation and pig endogenous retroviruses. <i>Reviews in Medical Virology</i> , <b>2003</b> , 13, 311-29	11.7	66
53	Human monoclonal antibodies that react with the E2 glycoprotein of hepatitis C virus and possess neutralizing activity. <i>Hepatology</i> , <b>2005</b> , 42, 1055-62	11.2	56
52	HCV core protein uses multiple mechanisms to induce oxidative stress in human hepatoma Huh7 cells. <i>Viruses</i> , <b>2015</b> , 7, 2745-70	6.2	55
51	Metabolic Hallmarks of Hepatic Stellate Cells in Liver Fibrosis. <i>Cells</i> , <b>2019</b> , 9,	7.9	55

50	Effect of Quercetin on Hepatitis C Virus Life Cycle: From Viral to Host Targets. <i>Scientific Reports</i> , <b>2016</b> , 6, 31777	4.9	52
49	Hepatitis C virus-induced mitochondrial dysfunctions. <i>Viruses</i> , <b>2013</b> , 5, 954-80	6.2	51
48	Reduction of the infectivity of hepatitis C virus pseudoparticles by incorporation of misfolded glycoproteins induced by glucosidase inhibitors. <i>Journal of General Virology</i> , <b>2007</b> , 88, 1133-1143	4.9	49
47	Strategies for retargeted gene delivery using vectors derived from lentiviruses. <i>Current Gene Therapy</i> , <b>2004</b> , 4, 427-43	4.3	47
46	Hepatitis C Virus Envelope Glycoprotein E1 Forms Trimers at the Surface of the Virion. <i>Journal of Virology</i> , <b>2015</b> , 89, 10333-46	6.6	46
45	Assembly of functional hepatitis C virus glycoproteins on infectious pseudoparticles occurs intracellularly and requires concomitant incorporation of E1 and E2 glycoproteins. <i>Journal of General Virology</i> , <b>2005</b> , 86, 3189-3199	4.9	45
44	Characterization of Lassa virus cell entry and neutralization with Lassa virus pseudoparticles. <i>Journal of Virology</i> , <b>2009</b> , 83, 3228-37	6.6	41
43	Contribution of the charged residues of hepatitis C virus glycoprotein E2 transmembrane domain to the functions of the E1E2 heterodimer. <i>Journal of General Virology</i> , <b>2005</b> , 86, 2793-2798	4.9	41
42	Glutathione peroxidase 4 is reversibly induced by HCV to control lipid peroxidation and to increase virion infectivity. <i>Gut</i> , <b>2016</b> , 65, 144-54	19.2	37
41	Hepatitis C Virus NS5A Protein Triggers Oxidative Stress by Inducing NADPH Oxidases 1 and 4 and Cytochrome P450 2E1. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2016</b> , 2016, 8341937	6.7	37
40	PCR-based cloning and immunocytological titration of infectious porcine endogenous retrovirus subgroup A and B. <i>Journal of General Virology</i> , <b>2002</b> , 83, 2231-2240	4.9	34
39	Studying HCV cell entry with HCV pseudoparticles (HCVpp). <i>Methods in Molecular Biology</i> , <b>2009</b> , 510, 279-93	1.4	34
38	Very-low-density lipoprotein (VLDL)-producing and hepatitis C virus-replicating HepG2 cells secrete no more lipovirions than VLDL-deficient Huh7.5 cells. <i>Journal of Virology</i> , <b>2013</b> , 87, 5065-80	6.6	32
37	Metabolic reprogramming: a hallmark of viral oncogenesis. <i>Oncogene</i> , <b>2016</b> , 35, 4155-64	9.2	31
36	Hepatitis B and C viruses and hepatocellular carcinoma. <i>Viruses</i> , <b>2010</b> , 2, 1504-9	6.2	31
35	Hepatitis C virus infection triggers a tumor-like glutamine metabolism. <i>Hepatology</i> , <b>2017</b> , 65, 789-803	11.2	30
34	Characterization of hepatitis C virus pseudoparticles by cryo-transmission electron microscopy using functionalized magnetic nanobeads. <i>Journal of General Virology</i> , <b>2010</b> , 91, 1919-1930	4.9	25
33	Comparative immunogenicity analysis of modified vaccinia Ankara vectors expressing native or modified forms of hepatitis C virus E1 and E2 glycoproteins. <i>Vaccine</i> , <b>2004</b> , 22, 3917-28	4.1	25

32	Hepatitis C virus infection propagates through interactions between Syndecan-1 and CD81 and impacts the hepatocyte glycocalyx. <i>Cellular Microbiology</i> , <b>2017</b> , 19, e12711	3.9	24
31	Hepatitis C virus E2 links soluble human CD81 and SR-B1 protein. <i>Virus Research</i> , <b>2006</b> , 121, 58-64	6.4	22
30	Recent advances in hepatitis C virus cell entry. <i>Viruses</i> , <b>2010</b> , 2, 692-709	6.2	21
29	Synergistic effect of interleukin-17 and tumour necrosis factor- $\alpha$ on inflammatory response in hepatocytes through interleukin-6-dependent and independent pathways. <i>Clinical and Experimental Immunology</i> , <b>2018</b> , 193, 221-233	6.2	20
28	The Ig domain protein CD9P-1 down-regulates CD81 ability to support Plasmodium yoelii infection. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 31572-8	5.4	20
27	An immortalized human liver endothelial sinusoidal cell line for the study of the pathobiology of the liver endothelium. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 450, 7-12	3.4	19
26	Epstein - Barr virus transforming protein LMP-1 alters B cells gene expression by promoting accumulation of the oncoprotein $\lambda$ p73. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003186	7.6	19
25	Porcine endogenous retroviruses PERV A and A/C recombinant are insensitive to a range of divergent mammalian TRIM5 $\alpha$ proteins including human TRIM5 $\alpha$ . <i>Journal of General Virology</i> , <b>2009</b> , 90, 702-709	4.9	18
24	Hepatitis C virus alters metabolism of biogenic polyamines by affecting expression of key enzymes of their metabolism. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 483, 904-909	3.4	17
23	Polyamine Metabolism and Oxidative Protein Folding in the ER as ROS-Producing Systems Neglected in Virology. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	15
22	Hypoxia sensing by hepatic stellate cells leads to VEGF-dependent angiogenesis and may contribute to accelerated liver regeneration. <i>Scientific Reports</i> , <b>2020</b> , 10, 4392	4.9	13
21	The long form of CDK2 arises via alternative splicing and forms an active protein kinase with cyclins A and E. <i>DNA and Cell Biology</i> , <b>2001</b> , 20, 413-23	3.6	12
20	Regulation of Mitochondria-Associated Membranes (MAMs) by NO/sGC/PKG Participates in the Control of Hepatic Insulin Response. <i>Cells</i> , <b>2019</b> , 8,	7.9	12
19	Batch profiling calibration for robust NMR metabonomic data analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 8819-27	4.4	11
18	Epidermal Growth Factor Receptor-Dependent Mutual Amplification between Netrin-1 and the Hepatitis C Virus. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002421	9.7	10
17	Role of seipin in lipid droplet morphology and hepatitis C virus life cycle. <i>Journal of General Virology</i> , <b>2013</b> , 94, 2208-2214	4.9	8
16	Hepatitis C virus and its complex interplay with hepatic glucose and lipid metabolism. <i>Journal of Hepatology</i> , <b>2009</b> , 50, 845-7	13.4	8
15	Hepatitis C Virus Increases Occludin Expression via the Upregulation of Adipose Differentiation-Related Protein. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146000	3.7	7

14	Activation of Polyamine Catabolism by N,N-Diethylnorspermine in Hepatic HepaRG Cells Induces Dedifferentiation and Mesenchymal-Like Phenotype. <i>Cells</i> , <b>2018</b> , 7,	7.9	7
13	Two phase kinetics of the inflammatory response from hepatocyte-peripheral blood mononuclear cell interactions. <i>Scientific Reports</i> , <b>2019</b> , 9, 8378	4.9	5
12	The mouse IAPE endogenous retrovirus can infect cells through any of the five GPI-anchored Ephrin A proteins. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002309	7.6	5
11	T- and B-cell responses to multivalent prime-boost DNA and viral vectored vaccine combinations against hepatitis C virus in non-human primates. <i>Gene Therapy</i> , <b>2016</b> , 23, 753-759	4	4
10	CD81 large extracellular loop-containing fusion proteins with a dominant negative effect on HCV cell spread and replication. <i>Journal of General Virology</i> , <b>2017</b> , 98, 1646-1657	4.9	3
9	Hepatitis C Virus RNA-Dependent RNA Polymerase Is Regulated by Cysteine S-Glutathionylation. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 3196140	6.7	2
8	Piecing together the key players of fibrosis in chronic hepatitis C: what roles do non-hepatic liver resident cell types play?. <i>Gut</i> , <b>2015</b> , 64, 862-3	19.2	2
7	Heparanase is upregulated by HCV and favors its replication.. <i>Journal of Hepatology</i> , <b>2022</b> ,	13.4	2
6	Effect of endothelial cell heterogeneity on nanoparticle uptake. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 587, 119699	6.5	2
5	NLRP3 controls ATM activation in response to DNA damage		1
4	Oxidative Stress in Hepatitis C Infection <b>2018</b> , 1-13		1
3	Cluster of differentiation 44 promotes osteosarcoma progression in mice lacking the tumor suppressor Merlin. <i>International Journal of Cancer</i> , <b>2020</b> , 147, 2564-2577	7.5	0
2	Hepatitis C Virus Alters Metabolism of Biogenic Polyamines by a ROS-dependent Induction of Key Enzymes of Their Metabolism. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 112, 166-167	7.8	
1	HCV Virology <b>2021</b> , 1-44		