

Volker Lohmann

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119
papers

13,802
citations

60
h-index

117
g-index

129
ext. papers

14,865
ext. citations

7.6
avg, IF

6.23
L-index

#	Paper	IF	Citations
119	Replication of subgenomic hepatitis C virus RNAs in a hepatoma cell line. <i>Science</i> , 1999 , 285, 110-3	33.3	2397
118	Identification of the hepatitis C virus RNA replication complex in Huh-7 cells harboring subgenomic replicons. <i>Journal of Virology</i> , 2003 , 77, 5487-92	6.6	511
117	Replication of hepatitis C virus. <i>Microbiology (United Kingdom)</i> , 2000 , 81, 1631-48	2.9	486
116	Enhancement of hepatitis C virus RNA replication by cell culture-adaptive mutations. <i>Journal of Virology</i> , 2001 , 75, 4614-24	6.6	453
115	Biochemical properties of hepatitis C virus NS5B RNA-dependent RNA polymerase and identification of amino acid sequence motifs essential for enzymatic activity. <i>Journal of Virology</i> , 1997 , 71, 8416-28	6.6	426
114	Mutations in hepatitis C virus RNAs conferring cell culture adaptation. <i>Journal of Virology</i> , 2001 , 75, 1437-49	6.6	397
113	Recruitment and activation of a lipid kinase by hepatitis C virus NS5A is essential for integrity of the membranous replication compartment. <i>Cell Host and Microbe</i> , 2011 , 9, 32-45	23.4	385
112	Assembly of infectious hepatitis C virus particles. <i>Trends in Microbiology</i> , 2011 , 19, 95-103	12.4	347
111	Characterization of the early steps of hepatitis C virus infection by using luciferase reporter viruses. <i>Journal of Virology</i> , 2006 , 80, 5308-20	6.6	343
110	Viral and cellular determinants of hepatitis C virus RNA replication in cell culture. <i>Journal of Virology</i> , 2003 , 77, 3007-19	6.6	337
109	Characterization of cell lines carrying self-replicating hepatitis C virus RNAs. <i>Journal of Virology</i> , 2001 , 75, 1252-64	6.6	312
108	Persistent and transient replication of full-length hepatitis C virus genomes in cell culture. <i>Journal of Virology</i> , 2002 , 76, 4008-21	6.6	306
107	The molecular and structural basis of advanced antiviral therapy for hepatitis C virus infection. <i>Nature Reviews Microbiology</i> , 2013 , 11, 482-96	22.2	290
106	Sequences in the 5' nontranslated region of hepatitis C virus required for RNA replication. <i>Journal of Virology</i> , 2001 , 75, 12047-57	6.6	267
105	Interferon-gamma inhibits replication of subgenomic and genomic hepatitis C virus RNAs. <i>Hepatology</i> , 2002 , 35, 694-703	11.2	259
104	Quantitative analysis of the hepatitis C virus replication complex. <i>Journal of Virology</i> , 2005 , 79, 13594-605	6.6	235
103	Essential role of cyclophilin A for hepatitis C virus replication and virus production and possible link to polyprotein cleavage kinetics. <i>PLoS Pathogens</i> , 2009 , 5, e1000546	7.6	216

102	Mutations that permit efficient replication of hepatitis C virus RNA in Huh-7 cells prevent productive replication in chimpanzees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 14416-21	11.5	214
101	Identification of hepatoprotective flavonolignans from silymarin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5995-9	11.5	201
100	Restoration of HCV-specific CD8+ T cell function by interferon-free therapy. <i>Journal of Hepatology</i> , 2014 , 61, 538-43	13.4	181
99	Complex formation between the NS3 serine-type proteinase of the hepatitis C virus and NS4A and its importance for polyprotein maturation. <i>Journal of Virology</i> , 1995 , 69, 7519-28	6.6	175
98	Analysis of hepatitis C virus superinfection exclusion by using novel fluorochrome gene-tagged viral genomes. <i>Journal of Virology</i> , 2007 , 81, 4591-603	6.6	174
97	Cyclosporin A inhibits hepatitis B and hepatitis D virus entry by cyclophilin-independent interference with the NTCP receptor. <i>Journal of Hepatology</i> , 2014 , 60, 723-31	13.4	172
96	Multiple effects of silymarin on the hepatitis C virus lifecycle. <i>Hepatology</i> , 2010 , 51, 1912-21	11.2	159
95	Novel cell culture systems for the hepatitis C virus. <i>Antiviral Research</i> , 2001 , 52, 1-17	10.8	157
94	A replicon-based bioassay for the measurement of interferons in patients with chronic hepatitis C. <i>Journal of Virological Methods</i> , 2003 , 110, 201-9	2.6	152
93	Biochemical and kinetic analyses of NS5B RNA-dependent RNA polymerase of the hepatitis C virus. <i>Virology</i> , 1998 , 249, 108-18	3.6	132
92	Dynamic oscillation of translation and stress granule formation mark the cellular response to virus infection. <i>Cell Host and Microbe</i> , 2012 , 12, 71-85	23.4	131
91	Daclatasvir-like inhibitors of NS5A block early biogenesis of hepatitis C virus-induced membranous replication factories, independent of RNA replication. <i>Gastroenterology</i> , 2014 , 147, 1094-105.e25	13.3	122
90	Hepatitis C virus-replicating hepatocytes induce fibrogenic activation of hepatic stellate cells. <i>Gastroenterology</i> , 2005 , 129, 246-58	13.3	118
89	Identification of type I and type II interferon-induced effectors controlling hepatitis C virus replication. <i>Hepatology</i> , 2012 , 56, 2082-93	11.2	111
88	Membrane association of the RNA-dependent RNA polymerase is essential for hepatitis C virus RNA replication. <i>Journal of Virology</i> , 2004 , 78, 13278-84	6.6	110
87	Production of infectious genotype 1b virus particles in cell culture and impairment by replication enhancing mutations. <i>PLoS Pathogens</i> , 2009 , 5, e1000475	7.6	105
86	Hepatitis C virus RNA replication. <i>Current Topics in Microbiology and Immunology</i> , 2013 , 369, 167-98	3.3	102
85	A target on the move: innate and adaptive immune escape strategies of hepatitis C virus. <i>Antiviral Research</i> , 2006 , 69, 129-41	10.8	102

84	Role of annexin A2 in the production of infectious hepatitis C virus particles. <i>Journal of Virology</i> , 2010 , 84, 5775-89	6.6	101
83	The lipid kinase phosphatidylinositol-4 kinase III alpha regulates the phosphorylation status of hepatitis C virus NS5A. <i>PLoS Pathogens</i> , 2013 , 9, e1003359	7.6	99
82	Ultrastructure of the replication sites of positive-strand RNA viruses. <i>Virology</i> , 2015 , 479-480, 418-33	3.6	98
81	Critical challenges and emerging opportunities in hepatitis C virus research in an era of potent antiviral therapy: Considerations for scientists and funding agencies. <i>Virus Research</i> , 2018 , 248, 53-62	6.4	95
80	Analysis of CD8+ T-cell-mediated inhibition of hepatitis C virus replication using a novel immunological model. <i>Gastroenterology</i> , 2009 , 136, 1391-401	13.3	95
79	The heme oxygenase 1 product biliverdin interferes with hepatitis C virus replication by increasing antiviral interferon response. <i>Hepatology</i> , 2010 , 51, 398-404	11.2	94
78	Mouse hepatic cells support assembly of infectious hepatitis C virus particles. <i>Gastroenterology</i> , 2011 , 141, 1057-66	13.3	93
77	Molecular mechanism of signal perception and integration by the innate immune sensor retinoic acid-inducible gene-I (RIG-I). <i>Journal of Biological Chemistry</i> , 2011 , 286, 27278-87	5.4	92
76	Hepatitis C virus escape from the interferon regulatory factor 3 pathway by a passive and active evasion strategy. <i>Hepatology</i> , 2007 , 46, 1365-74	11.2	92
75	Identification of determinants involved in initiation of hepatitis C virus RNA synthesis by using intergenotypic replicase chimeras. <i>Journal of Virology</i> , 2007 , 81, 5270-83	6.6	86
74	Hepatitis C virus replication cycle. <i>Journal of Hepatology</i> , 2010 , 53, 583-5	13.4	84
73	Dissecting the interferon-induced inhibition of hepatitis C virus replication by using a novel host cell line. <i>Journal of Virology</i> , 2005 , 79, 13778-93	6.6	77
72	The hepatitis C virus RNA-dependent RNA polymerase membrane insertion sequence is a transmembrane segment. <i>Journal of Virology</i> , 2002 , 76, 13088-93	6.6	77
71	Selective stimulation of hepatitis C virus and pestivirus NS5B RNA polymerase activity by GTP. <i>Journal of Biological Chemistry</i> , 1999 , 274, 10807-15	5.4	77
70	Mutagenic effect of ribavirin on hepatitis C nonstructural 5B quasispecies in vitro and during antiviral therapy. <i>Gastroenterology</i> , 2007 , 132, 921-30	13.3	73
69	Hepatitis C virus RNA replication is resistant to tumour necrosis factor-alpha. <i>Journal of General Virology</i> , 2003 , 84, 1253-1259	4.9	72
68	Modulation of the Host Lipid Landscape to Promote RNA Virus Replication: The Picornavirus Encephalomyocarditis Virus Converges on the Pathway Used by Hepatitis C Virus. <i>PLoS Pathogens</i> , 2015 , 11, e1005185	7.6	70
67	On the history of hepatitis C virus cell culture systems. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 1627-428.3		67

66	Monocytes activate natural killer cells via inflammasome-induced interleukin 18 in response to hepatitis C virus replication. <i>Gastroenterology</i> , 2014 , 147, 209-220.e3	13.3	65
65	Structural and functional analysis of hepatitis C virus strain JFH1 polymerase. <i>Journal of Virology</i> , 2009 , 83, 11926-39	6.6	65
64	Replication vesicles are load- and choke-points in the hepatitis C virus lifecycle. <i>PLoS Pathogens</i> , 2013 , 9, e1003561	7.6	63
63	Biochemical and structural analysis of the NS5B RNA-dependent RNA polymerase of the hepatitis C virus. <i>Journal of Viral Hepatitis</i> , 2000 , 7, 167-74	3.4	62
62	In vitro studies on the activation of the hepatitis C virus NS3 proteinase by the NS4A cofactor. <i>Virology</i> , 1996 , 221, 54-66	3.6	61
61	Flavivirus Infection Uncouples Translation Suppression from Cellular Stress Responses. <i>MBio</i> , 2017 , 8,	7.8	60
60	NS5A Domain 1 and Polyprotein Cleavage Kinetics Are Critical for Induction of Double-Membrane Vesicles Associated with Hepatitis C Virus Replication. <i>MBio</i> , 2015 , 6, e00759	7.8	60
59	Inhibition of HCV replication by cyclophilin antagonists is linked to replication fitness and occurs by inhibition of membranous web formation. <i>Gastroenterology</i> , 2014 , 146, 1361-72.e1-9	13.3	58
58	A comprehensive structure-function comparison of hepatitis C virus strain JFH1 and J6 polymerases reveals a key residue stimulating replication in cell culture across genotypes. <i>Journal of Virology</i> , 2011 , 85, 2565-81	6.6	53
57	Hepatitis C Virus Replication Depends on Endosomal Cholesterol Homeostasis. <i>Journal of Virology</i> , 2018 , 92,	6.6	52
56	Hepatitis C virus NS2/3 processing is required for NS3 stability and viral RNA replication. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29604-11	5.4	52
55	microRNA-122 amplifies hepatitis C virus translation by shaping the structure of the internal ribosomal entry site. <i>Nature Communications</i> , 2018 , 9, 2613	17.4	50
54	Immunodominance of HLA-A2-restricted hepatitis C virus-specific CD8+ T cell responses is linked to naive-precursor frequency. <i>Journal of Virology</i> , 2011 , 85, 5232-6	6.6	47
53	Protective effect of human leukocyte antigen B27 in hepatitis C virus infection requires the presence of a genotype-specific immunodominant CD8+ T-cell epitope. <i>Hepatology</i> , 2010 , 51, 54-62	11.2	42
52	Replication of the hepatitis C virus. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , 2000 , 14, 241-54	2.5	42
51	Identification of HNRNPK as regulator of hepatitis C virus particle production. <i>PLoS Pathogens</i> , 2015 , 11, e1004573	7.6	41
50	Human leukocyte antigen B27 selects for rare escape mutations that significantly impair hepatitis C virus replication and require compensatory mutations. <i>Hepatology</i> , 2011 , 54, 1157-66	11.2	41
49	Control of temporal activation of hepatitis C virus-induced interferon response by domain 2 of nonstructural protein 5A. <i>Journal of Hepatology</i> , 2015 , 63, 829-37	13.4	40

48	Membrane alterations induced by nonstructural proteins of human norovirus. <i>PLoS Pathogens</i> , 2017 , 13, e1006705	7.6	40
47	Tuning a cellular lipid kinase activity adapts hepatitis C virus to replication in cell culture. <i>Nature Microbiology</i> , 2016 , 2, 16247	26.6	39
46	Secretion of Hepatitis C Virus Replication Intermediates Reduces Activation of Toll-Like Receptor 3 in Hepatocytes. <i>Gastroenterology</i> , 2018 , 154, 2237-2251.e16	13.3	36
45	Analysis of hepatitis C virus resistance to silibinin in vitro and in vivo points to a novel mechanism involving nonstructural protein 4B. <i>Hepatology</i> , 2013 , 57, 953-63	11.2	36
44	DDX60L Is an Interferon-Stimulated Gene Product Restricting Hepatitis C Virus Replication in Cell Culture. <i>Journal of Virology</i> , 2015 , 89, 10548-68	6.6	35
43	Factors that determine the antiviral efficacy of HCV-specific CD8(+) T cells ex vivo. <i>Gastroenterology</i> , 2013 , 144, 426-436	13.3	34
42	Relationships between hepatitis C virus replication and CXCL-8 production in vitro. <i>Journal of Virology</i> , 2006 , 80, 7885-93	6.6	32
41	Mapping of functional domains of the lipid kinase phosphatidylinositol 4-kinase type III alpha involved in enzymatic activity and hepatitis C virus replication. <i>Journal of Virology</i> , 2014 , 88, 9909-26	6.6	28
40	Annexin A2 as a differential diagnostic marker of hepatocellular tumors. <i>Pathology Research and Practice</i> , 2011 , 207, 8-14	3.4	27
39	Novel perspectives for hepatitis A virus therapy revealed by comparative analysis of hepatitis C virus and hepatitis A virus RNA replication. <i>Hepatology</i> , 2015 , 62, 397-408	11.2	26
38	Phosphorylation-Dependent Feedback Inhibition of RIG-I by DAPK1 Identified by Kinome-wide siRNA Screening. <i>Molecular Cell</i> , 2017 , 65, 403-415.e8	17.6	25
37	Overall Structural Model of NS5A Protein from Hepatitis C Virus and Modulation by Mutations Confering Resistance of Virus Replication to Cyclosporin A. <i>Biochemistry</i> , 2017 , 56, 3029-3048	3.2	22
36	Rapid antigen processing and presentation of a protective and immunodominant HLA-B*27-restricted hepatitis C virus-specific CD8+ T-cell epitope. <i>PLoS Pathogens</i> , 2012 , 8, e1003042	7.6	21
35	HCV replicons: overview and basic protocols. <i>Methods in Molecular Biology</i> , 2009 , 510, 145-63	1.4	21
34	Bile acids specifically increase hepatitis C virus RNA-replication. <i>PLoS ONE</i> , 2012 , 7, e36029	3.7	20
33	TCR-redirected human T cells inhibit hepatitis C virus replication: hepatotoxic potential is linked to antigen specificity and functional avidity. <i>Journal of Immunology</i> , 2012 , 189, 4510-9	5.3	19
32	Differing and isoform-specific roles for the formin DIAPH3 in plasma membrane blebbing and filopodia formation. <i>Cell Research</i> , 2012 , 22, 728-45	24.7	17
31	Experimental models to study the immunobiology of hepatitis C virus. <i>Journal of General Virology</i> , 2011 , 92, 477-93	4.9	17

30	Mutations in Encephalomyocarditis Virus 3A Protein Uncouple the Dependency of Genome Replication on Host Factors Phosphatidylinositol 4-Kinase III and Oxysterol-Binding Protein. <i>MSphere</i> , 2016 , 1,	5	16
29	An integrated transcriptomic and meta-analysis of hepatoma cells reveals factors that influence susceptibility to HCV infection. <i>PLoS ONE</i> , 2011 , 6, e25584	3.7	15
28	Nonstructural protein 5A does not contribute to the resistance of hepatitis C virus replication to interferon alpha in cell culture. <i>Virology</i> , 2005 , 336, 131-6	3.6	15
27	Matrix conditions and KLF2-dependent induction of heme oxygenase-1 modulate inhibition of HCV replication by fluvastatin. <i>PLoS ONE</i> , 2014 , 9, e96533	3.7	12
26	Hepatitis C virus replicons: dinosaurs still in business?. <i>Journal of Viral Hepatitis</i> , 2009 , 16, 1-9	3.4	11
25	Hepatitis C virus cell culture models: an encomium on basic research paving the road to therapy development. <i>Medical Microbiology and Immunology</i> , 2019 , 208, 3-24	4	11
24	Hepatitis C virus-induced natural killer cell proliferation involves monocyte-derived cells and the OX40/OX40L axis. <i>Journal of Hepatology</i> , 2018 , 68, 421-430	13.4	11
23	Hepatitis C Virus-Specific T Cell Receptor mRNA-Engineered Human T Cells: Impact of Antigen Specificity on Functional Properties. <i>Journal of Virology</i> , 2017 , 91,	6.6	10
22	Low perforin expression of early differentiated HCV-specific CD8+ T cells limits their hepatotoxic potential. <i>Journal of Hepatology</i> , 2012 , 57, 9-16	13.4	10
21	The accelerating pace of HCV research: a summary of the 15th International Symposium on Hepatitis C Virus And Related Viruses. <i>Gastroenterology</i> , 2009 , 136, 9-16	13.3	10
20	Foot-and-mouth disease virus replicates independently of phosphatidylinositol 4-phosphate and type III phosphatidylinositol 4-kinases. <i>Journal of General Virology</i> , 2016 , 97, 1841-1852	4.9	10
19	Generation of T-cell receptors targeting a genetically stable and immunodominant cytotoxic T-lymphocyte epitope within hepatitis C virus non-structural protein 3. <i>Journal of General Virology</i> , 2012 , 93, 247-258	4.9	9
18	Tyrphostin AG1478 Inhibits Encephalomyocarditis Virus and Hepatitis C Virus by Targeting Phosphatidylinositol 4-Kinase III. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 6402-6	5.9	9
17	Type I and type II interferon responses in two human liver cell lines (Huh-7 and HuH6). <i>Genomics Data</i> , 2016 , 7, 166-70		6
16	Characterization of a Threonine-Rich Cluster in Hepatitis C Virus Nonstructural Protein 5A and Its Contribution to Hyperphosphorylation. <i>Journal of Virology</i> , 2018 , 92,	6.6	5
15	Interaction and Mutual Activation of Different Innate Immune Cells Is Necessary to Kill and Clear Hepatitis C Virus-Infected Cells. <i>Frontiers in Immunology</i> , 2017 , 8, 1238	8.4	4
14	In vitro replicative properties of replicons constructed using sequence variants of the hepatitis C virus strain AD78 that caused a single-source outbreak of hepatitis C. <i>Virus Research</i> , 2009 , 142, 1-9	6.4	4
13	The cyclophilin-inhibitor alisporivir stimulates antigen presentation thereby promoting antigen-specific CD8(+) T cell activation. <i>Journal of Hepatology</i> , 2016 , 64, 1305-14	13.4	3

12	PI4KIII inhibitor enviroxime impedes the replication of the hepatitis C virus by inhibiting PI3 kinases. <i>Journal of Antimicrobial Chemotherapy</i> , 2018 , 73, 3375-3384	5.1	3
11	Evidence for Internal Initiation of RNA Synthesis by the Hepatitis C Virus RNA-Dependent RNA Polymerase NS5B. <i>Journal of Virology</i> , 2019 , 93,	6.6	2
10	Inhibition of Hepatitis C Replication by Targeting the Molecular Chaperone Hsp90: Synthesis and Biological Evaluation of 4,5,6,7-Tetrahydrobenzo[1,2-d]thiazole Derivatives. <i>ChemMedChem</i> , 2019 , 14, 334-342	3.7	2
9	Interferon lambda 4 impairs hepatitis C viral antigen presentation and attenuates T cell responses. <i>Nature Communications</i> , 2021 , 12, 4882	17.4	2
8	The Hepatitis C Virus Replicon System and Its Role in Drug Development. <i>Topics in Medicinal Chemistry</i> , 2019 , 69-96	0.4	1
7	The HCV Replicase Complex and Viral RNA Synthesis 2016 , 149-196		1
6	SEC14L2, a lipid-binding protein, regulates HCV replication in culture with inter- and intra-genotype variations. <i>Journal of Hepatology</i> , 2019 , 70, 603-614	13.4	1
5	Convergent use of phosphatidic acid for hepatitis C virus and SARS-CoV-2 replication organelle formation.. <i>Nature Communications</i> , 2021 , 12, 7276	17.4	1
4	Analysis of Hepatitis C Virus Superinfection Exclusion by Using Novel Fluorochrome Gene-Tagged Viral Genomes. <i>Journal of Virology</i> , 2007 , 81, 7327-7327	6.6	0
3	In Vitro Replication Models 2013 , 325-340		
2	The Replicon System as an Efficient Tool to Study HCV RNA Replication 2005 , 25, 81-95		
1	Hepatitis C Virus Replication in Cell Culture 2004 , 108-122		