Barbara Rehermann

List of Publications by Citations

132 papers	14,731 citations	56 h-index	121 g-index
169 ext. papers	16,607 ext. citations	12.6 avg, IF	6.74 L-index

#	Paper	IF	Citations
132	Immunology of hepatitis B virus and hepatitis C virus infection. *Nature Reviews Immunology*, **2005**, 5, 215-29	36.5	1282
131	The liver as an immunological organ. *Hepatology*, **2006**, 43, S54-62	11.2	816
130	A variant upstream of IFNL3 (IL28B) creating a new interferon gene IFNL4 is associated with impaired clearance of hepatitis C virus. *Nature Genetics*, **2013**, 45, 164-71	36.3	704
129	The hepatitis B virus persists for decades after patients' recovery from acute viral hepatitis despite active maintenance of a cytotoxic T-lymphocyte response. *Nature Medicine*, **1996**, 2, 1104-8	50.5	677
128	Pathogenesis, natural history, treatment, and prevention of hepatitis C. *Annals of Internal Medicine*, **2000**, 132, 296-305	8	647
127	Cellular immune responses persist and humoral responses decrease two decades after recovery from a single-source outbreak of hepatitis C. *Nature Medicine*, **2000**, 6, 578-82	50.5	612
126	Impaired effector function of hepatitis C virus-specific CD8+ T cells in chronic hepatitis C virus infection. *Journal of Immunology*, **2002**, 169, 3447-58	5.3	540
125	The cytotoxic T lymphocyte response to multiple hepatitis B virus polymerase epitopes during and after acute viral hepatitis. *Journal of Experimental Medicine*, **1995**, 181, 1047-58	16.6	428
124	Hepatitis C virus versus innate and adaptive immune responses: a tale of coevolution and coexistence. *Journal of Clinical Investigation*, **2009**, 119, 1745-54	15.9	407
123	Wild Mouse Gut Microbiota Promotes Host Fitness and Improves Disease Resistance. *Cell*, **2017**, 171, 1015-1028.e13	56.2	365
122	Quantitative analysis of hepatitis C virus-specific CD8(+) T cells in peripheral blood and liver using peptide-MHC tetramers. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 5692-7	11.5	365
121	Pathogenesis of chronic viral hepatitis: differential roles of T cells and NK cells. *Nature Medicine*, **2013**, 19, 859-68	50.5	328
120	Hepatitis C virus continuously escapes from neutralizing antibody and T-cell responses during chronic infection in vivo. *Gastroenterology*, **2007**, 132, 667-78	13.3	319
119	Immunological significance of cytotoxic T lymphocyte epitope variants in patients chronically infected by the hepatitis C virus. *Journal of Clinical Investigation*, **1997**, 100, 2376-85	15.9	251
118	Quantitative analysis of the peripheral blood cytotoxic T lymphocyte response in patients with chronic hepatitis C virus infection. *Journal of Clinical Investigation*, **1996**, 98, 1432-40	15.9	233
117	Cytotoxic T lymphocyte responsiveness after resolution of chronic hepatitis B virus infection. *Journal of Clinical Investigation*, **1996**, 97, 1655-65	15.9	232
116	Long-lasting memory T cell responses following self-limited acute hepatitis B. *Journal of Clinical Investigation*, **1996**, 98, 1185-94	15.9	225

115	Natural killer cells are polarized toward cytotoxicity in chronic hepatitis C in an interferon-alfa-dependent manner. *Gastroenterology*, **2010**, 138, 325-35.e1-2	13.3	211
114	Non-classical Immunity Controls Microbiota Impact on Skin Immunity and Tissue Repair. *Cell*, **2018**, 172, 784-796.e18	56.2	203
113	Cross-reactivity between hepatitis C virus and Influenza A virus determinant-specific cytotoxic T cells. *Journal of Virology*, **2001**, 75, 11392-400	6.6	199
112	Immune responses to HCV and other hepatitis viruses. *Immunity*, **2014**, 40, 13-24	32.3	193
111	Laboratory mice born to wild mice have natural microbiota and model human immune responses. *Science*, **2019**, 365,	33.3	189
110	A global scientific strategy to cure hepatitis B. *The Lancet Gastroenterology and Hepatology*, **2019**, 4, 545-558	18.8	187
109	Peripheral CD4(+)CD8(+) T cells are differentiated effector memory cells with antiviral functions. *Blood*, **2004**, 104, 478-86	2.2	183
108	Successful Interferon-Free Therapy of Chronic Hepatitis C Virus Infection Normalizes Natural Killer Cell Function. *Gastroenterology*, **2015**, 149, 190-200.e2	13.3	181
107	Kinetics of CD4+ and CD8+ memory T-cell responses during hepatitis C virus rechallenge of previously recovered chimpanzees. *Journal of Virology*, **2003**, 77, 4781-93	6.6	166
106	Previously infected and recovered chimpanzees exhibit rapid responses that control hepatitis C virus replication upon rechallenge. *Journal of Virology*, **2002**, 76, 6586-95	6.6	158
105	Efficient generation of a hepatitis B virus cytotoxic T lymphocyte epitope requires the structural features of immunoproteasomes. *Journal of Experimental Medicine*, **2000**, 191, 503-14	16.6	131
104	Early changes in natural killer cell function indicate virologic response to interferon therapy for hepatitis C. *Gastroenterology*, **2011**, 141, 1231-9, 1239.e1-2	13.3	129
103	Distinct KIR/HLA compound genotypes affect the kinetics of human antiviral natural killer cell responses. *Journal of Clinical Investigation*, **2008**, 118, 1017-26	15.9	124
102	Spontaneous clearance of chronic hepatitis C virus infection is associated with appearance of neutralizing antibodies and reversal of T-cell exhaustion. *Journal of Infectious Diseases*, **2012**, 205, 763-71	7	122
101	Effects of antiviral therapy on the cellular immune response in acute hepatitis C. *Hepatology*, **2004**, 40, 87-97	11.2	120
100	Virus-induced type I IFN stimulates generation of immunoproteasomes at the site of infection. *Journal of Clinical Investigation*, **2006**, 116, 3006-14	15.9	119
99	Immunological aspects of antiviral therapy of chronic hepatitis B virus and hepatitis C virus infections. *Hepatology*, **2015**, 61, 712-21	11.2	114
98	Interaction between the hepatitis C virus and the immune system. *Seminars in Liver Disease*, **2000**, 20, 127-41	7.3	108

97	Hepatitis C virus mutation affects proteasomal epitope processing. *Journal of Clinical Investigation*, **2004**, 114, 250-259	15.9	108
96	Foxp3+CD4+CD25+ T cells control virus-specific memory T cells in chimpanzees that recovered from hepatitis C. *Blood*, **2006**, 107, 4424-32	2.2	107
95	Chronic infections with hepatotropic viruses: mechanisms of impairment of cellular immune responses. *Seminars in Liver Disease*, **2007**, 27, 152-60	7.3	103
94	IL-29 is the dominant type III interferon produced by hepatocytes during acute hepatitis C virus infection. *Hepatology*, **2012**, 56, 2060-70	11.2	102
93	Hepatitis B virus evades innate immunity of hepatocytes but activates cytokine production by macrophages. *Hepatology*, **2017**, 66, 1779-1793	11.2	97
92	Immunization with hepatitis C virus-like particles induces humoral and cellular immune responses in nonhuman primates. *Journal of Virology*, **2004**, 78, 6995-7003	6.6	95
91	Intrahepatic T cells in hepatitis B: viral control versus liver cell injury. *Journal of Experimental Medicine*, **2000**, 191, 1263-8	16.6	90
90	Cell culture-produced hepatitis C virus impairs plasmacytoid dendritic cell function. *Hepatology*, **2008**, 47, 385-95	11.2	89
89	Early changes in interferon signaling define natural killer cell response and refractoriness to interferon-based therapy of hepatitis C patients. *Hepatology*, **2012**, 55, 39-48	11.2	88
88	Natural killer cell function is intact after direct exposure to infectious hepatitis C virions. *Hepatology*, **2009**, 49, 12-21	11.2	87
87	Hepatitis C virus infection: when silence is deception. *Trends in Immunology*, **2003**, 24, 456-64	14.4	83
86	Cellular immune responses to the hepatitis B virus polymerase. *Journal of Immunology*, **2004**, 173, 5863-71	5.3	76
85	The clearance of hepatitis C virus infection in chimpanzees may not necessarily correlate with the appearance of acquired immunity. *Journal of Virology*, **2003**, 77, 862-70	6.6	74
84	Immune responses in hepatitis B virus infection. *Seminars in Liver Disease*, **2003**, 23, 21-38	7.3	74
83	Monocytes activate natural killer cells via inflammasome-induced interleukin 18 in response to hepatitis C virus replication. *Gastroenterology*, **2014**, 147, 209-220.e3	13.3	65
82	Discovery of several thousand highly diverse circular DNA viruses. *ELife*, **2020**, 9,	8.9	65
81	Hepatitis C virus mutation affects proteasomal epitope processing. *Journal of Clinical Investigation*, **2004**, 114, 250-9	15.9	64
80	Insights From Antiviral Therapy Into Immune Responses to Hepatitis B and C Virus Infection. *Gastroenterology*, **2019**, 156, 369-383	13.3	62

79	Successful vaccination induces multifunctional memory T-cell precursors associated with early control of hepatitis C virus. *Gastroenterology*, **2012**, 143, 1048-60.e4	13.3	58
78	Immunopathology of hepatitis C. *Seminars in Immunopathology*, **1997**, 19, 57-68		58
77	Intra-Hepatic Depletion of Mucosal-Associated Invariant T Cells in Hepatitis C Virus-Induced Liver Inflammation. *Gastroenterology*, **2017**, 153, 1392-1403.e2	13.3	57
76	Acute hepatitis C: a multifaceted disease. *Seminars in Liver Disease*, **2005**, 25, 7-17	7.3	56
75	Oral immunization with HCV-NS3-transformed Salmonella: induction of HCV-specific CTL in a transgenic mouse model. *Gastroenterology*, **2001**, 121, 1158-66	13.3	56
74	Innate immune responses in hepatitis C virus-exposed healthcare workers who do not develop acute infection. *Hepatology*, **2013**, 58, 1621-31	11.2	55
73	Hepatitis C virus (HCV)-specific immune responses of long-term injection drug users frequently exposed to HCV. *Journal of Infectious Diseases*, **2008**, 198, 203-12	7	52
72	Natural Killer Cells in Viral Hepatitis. *Cellular and Molecular Gastroenterology and Hepatology*, **2015**, 1, 578-588	7.9	51
71	Emergence of a distinct pattern of viral mutations in chimpanzees infected with a homogeneous inoculum of hepatitis C virus. *Gastroenterology*, **2001**, 121, 1226-33	13.3	49
70	Effect of ribavirin on viral kinetics and liver gene expression in chronic hepatitis C. *Gut*, **2014**, 63, 161-9	19.2	48
69	Delayed induction, not impaired recruitment, of specific CD8+ T cells causes the late onset of acute hepatitis C. *Gastroenterology*, **2011**, 141, 686-95, 695.e1	13.3	47
68	Direct functional analysis of epitope-specific CD8+ T cells in peripheral blood. *Viral Immunology*, **2001**, 14, 59-69	1.7	47
67	Rapid decrease in hepatitis C viremia by direct acting antivirals improves the natural killer cell response to IFN *Gut*, **2017**, 66, 724-735	19.2	46
66	Sporadic reappearance of minute amounts of hepatitis C virus RNA after successful therapy stimulates cellular immune responses. *Gastroenterology*, **2011**, 140, 676-685.e1	13.3	46
65	Dendritic cells transfected with cytopathic self-replicating RNA induce crosspriming of CD8+ T cells and antiviral immunity. *Immunity*, **2004**, 20, 47-58	32.3	45
64	Infection trains the host for microbiota-enhanced resistance to pathogens. *Cell*, **2021**, 184, 615-627.e17	56.2	43
63	The frequency of CD127(+) hepatitis C virus (HCV)-specific T cells but not the expression of exhaustion markers predicts the outcome of acute HCV infection. *Journal of Virology*, **2013**, 87, 4772-7	6.6	40
62	R2d2 Drives Selfish Sweeps in the House Mouse. *Molecular Biology and Evolution*, **2016**, 33, 1381-95	8.3	39

61	Potent enhancement of cellular and humoral immune responses against recombinant hepatitis B antigens using AS02A adjuvant in healthy adults. *Vaccine*, **2005**, 23, 2591-601	4.1	38
60	Aberrant tRNA processing causes an autoinflammatory syndrome responsive to TNF inhibitors. *Annals of the Rheumatic Diseases*, **2018**, 77, 612-619	2.4	37
59	The hepatitis B vaccine protects re-exposed health care workers, but does not provide sterilizing immunity. *Gastroenterology*, **2013**, 145, 1026-34	13.3	37
58	Durability of antibody response against hepatitis B virus in healthcare workers vaccinated as adults. *Clinical Infectious Diseases*, **2015**, 60, 505-13	11.6	36
57	Subinfectious hepatitis C virus exposures suppress T cell responses against subsequent acute infection. *Nature Medicine*, **2013**, 19, 1638-42	50.5	36
56	Private aspects of heterologous immunity. *Journal of Experimental Medicine*, **2005**, 201, 667-70	16.6	35
55	T cell responses in hepatitis C virus infection: historical overview and goals for future research. *Antiviral Research*, **2015**, 114, 96-105	10.8	34
54	Induction of CXCR3- and CCR5-associated chemokines during acute hepatitis C virus infection. *Journal of Hepatology*, **2011**, 55, 545-553	13.4	33
53	Identification of CD4 T-cell epitopes in soluble liver antigen/liver pancreas autoantigen in autoimmune hepatitis. *Gastroenterology*, **2008**, 135, 2107-18	13.3	31
52	Molecular and immunological significance of chimpanzee major histocompatibility complex haplotypes for hepatitis C virus immune response and vaccination studies. *Journal of Virology*, **2002**, 76, 6093-103	6.6	29
51	Genetic immunization of wild-type and hepatitis C virus transgenic mice reveals a hierarchy of cellular immune response and tolerance induction against hepatitis C virus structural proteins. *Journal of Virology*, **2001**, 75, 12121-7	6.6	28
50	Sequence analysis of hepatitis C virus from patients with relapse after a sustained virological response: relapse or reinfection?. *Journal of Infectious Diseases*, **2014**, 209, 38-45	7	27
49	Baseline Intrahepatic and Peripheral Innate Immunity are Associated with Hepatitis C Virus Clearance During Direct-Acting Antiviral Therapy. *Hepatology*, **2018**, 68, 2078-2088	11.2	26
48	Keratinocyte-intrinsic MHCII expression controls microbiota-induced Th1 cell responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23643-23652	11.5	26
47	Hepatitis C virus attenuates interferon-induced major histocompatibility complex class I expression and decreases CD8+ T cell effector functions. *Gastroenterology*, **2014**, 146, 1351-60.e1-4	13.3	26
46	Hepatitis D Virus-Specific CD8 T Cells Have a Memory-Like Phenotype Associated With Viral Immune Escape in Patients With Chronic Hepatitis D Virus Infection. *Gastroenterology*, **2019**, 156, 1805-1819.e9	13.3	25
45	HCV in 2015: Advances in hepatitis C research and treatment. *Nature Reviews Gastroenterology and Hepatology*, **2016**, 13, 70-2	24.2	25
44	Ribavirin improves the IFN-γ response of natural killer cells to IFN-based therapy of hepatitis C virus infection. *Hepatology*, **2014**, 60, 1160-9	11.2	23

43	Occupational exposure to hepatitis C virus: early T-cell responses in the absence of seroconversion in a longitudinal cohort study. *Journal of Infectious Diseases*, **2013**, 208, 1020-5	7	23
42	Improving natural product research translation: From source to clinical trial. *FASEB Journal*, **2020**, 34, 41-65	0.9	23
41	High levels of subgenomic HCV plasma RNA in immunosilent infections. *Virology*, **2007**, 365, 446-56	3.6	22
40	Liver-directed gamma interferon gene delivery in chronic hepatitis C. *Journal of Virology*, **2005**, 79, 13412-20	6.8	22
39	Mucosal-Associated Invariant T Cells in Chronic Inflammatory Liver Disease. *Seminars in Liver Disease*, **2018**, 38, 60-65	7.3	21
38	B cell homeostasis in chronic hepatitis C virus-related mixed cryoglobulinemia is maintained through naïve B cell apoptosis. *Hepatology*, **2012**, 56, 1602-10	11.2	20
37	Hepatitis C vaccines: Inducing and challenging memory T cells. *Hepatology*, **2006**, 43, 1395-8	11.2	20
36	Trace amounts of sporadically reappearing HCV RNA can cause infection. *Journal of Clinical Investigation*, **2014**, 124, 3469-78	15.9	19
35	The clinical relevance of persistent recombinant immunoblot assay-indeterminate reactions: insights into the natural history of hepatitis C virus infection and implications for donor counseling. *Transfusion*, **2012**, 52, 1940-8	2.9	18
34	The kinetics of hepatitis C virus-specific CD8 T-cell responses in the blood mirror those in the liver in acute hepatitis C virus infection. *Journal of Virology*, **2008**, 82, 9782-8	6.6	17
33	Immune responses and immunity in hepatitis C virus infection. *Journal of Gastroenterology*, **2001**, 36, 799-808	6.9	17
32	Infectivity in chimpanzees (Pan troglodytes) of plasma collected before HCV RNA detectability by FDA-licensed assays: implications for transfusion safety and HCV infection outcomes. *Blood*, **2012**, 119, 6326-34	2.2	16
31	Use of Current and New Endpoints in the Evaluation of Experimental Hepatitis B Therapeutics. *Clinical Infectious Diseases*, **2017**, 64, 1283-1288	11.6	15
30	Systemic toxoplasma infection triggers a long-term defect in the generation and function of naive T lymphocytes. *Journal of Experimental Medicine*, **2016**, 213, 3041-3056	16.6	13
29	Mature peritoneal macrophages take an avascular route into the injured liver and promote tissue repair. *Hepatology*, **2017**, 65, 376-379	11.2	13
28	More rare birds, and the occasional swan. *Gastroenterology*, **2009**, 136, 2412-4	13.3	13
27	The liver as an immunological organ. *Journal of Gastroenterology and Hepatology (Australia)*, **2004**, 19, S279-S283	4	11
26	Chronic hepatitis B and hepatocarcinogenesis: does prevention of "collateral damage" bring the cure?. *Hepatology*, **2003**, 37, 707-10	11.2	11

25	The accelerating pace of HCV research: a summary of the 15th International Symposium on Hepatitis C Virus And Related Viruses. *Gastroenterology*, **2009**, 136, 9-16	13.3	10
24	Serological pattern of hepatitis C virus recurrence after liver transplantation. *Journal of Hepatology*, **1996**, 24, 15-20	13.4	10
23	Immunopathogenesis of viral hepatitis. *Baillieres Clinical Gastroenterology*, **1996**, 10, 483-500		10
22	Identification of novel chimpanzee MHC class I and II alleles using an improved sequence-based typing strategy. *Human Immunology*, **2006**, 67, 63-72	2.3	9
21	Neonatal exposure to a wild-derived microbiome protects mice against diet-induced obesity. *Nature Metabolism*, **2021**, 3, 1042-1057	14.6	7
20	Tissue-resident T cells in hepatitis B: A new target for cure?. *Journal of Experimental Medicine*, **2017**, 214, 1564-1566	16.6	6
19	Interleukin-6 in liver diseases. *Journal of Hepatology*, **1992**, 15, 277-80	13.4	6
18	Immunologic aspects of acute and chronic hepatitis B and C. *Current Opinion in Gastroenterology*, **1996**, 12, 554-559	3	5
17	Author response: Discovery of several thousand highly diverse circular DNA viruses **2020**,		5
16	Clearance of pegylated interferon by Kupffer cells limits NK cell activation and therapy response of patients with HBV infection. *Science Translational Medicine*, **2021**, 13,	17.5	5
15	The role of genetics in hepatic fibrosis among hepatitis C virus patients. *Hepatology*, **2018**, 67, 2043-2045	11.2	5
14	Dendritic cells transfected with Her2 antigen-encoding RNA replicons cross-prime CD8 T cells and protect mice against tumor challenge. *Vaccine*, **2010**, 28, 7764-73	4.1	4
13	Hepatitis C virus and the threshold of natural killer cell inhibition. *Hepatology*, **2005**, 41, 675-7	11.2	4
12	Liver-Resident Bystander CD8 T Cells Contribute to Liver Disease Pathogenesis in Chronic Hepatitis D Virus Infection. *Gastroenterology*, **2021**, 161, 1567-1583.e9	13.3	4
11	Chronic HCV infection and the clonality of intrahepatic T cells. *Journal of Hepatology*, **2003**, 38, 677-80	13.4	3
10	Virus-Induced Interferon Regulates the Urea Cycle. *Immunity*, **2019**, 51, 975-977	32.3	3
9	Acute hepatitis C. *Gastroenterology*, **2009**, 136, 2411	13.3	2
8	Determination of hepatitis B virus-specific CD8+ T-cell activity in the liver. *Methods in Molecular Medicine*, **2004**, 96, 65-83		2

7	Hepatic NK, NKT, and T Cells **2007**, 71-82		2
6	8 Immunopathogenesis of hepatitis C. *Biomedical Research Reports*, **2000**, 2, 147-168		1
5	Spontaneous Clearance of Drug-Resistant Chronic Hepatitis C Virus Infection. *Hepatology*, **2021**, 74, 3552-3553	11.2	1
4	Determination of HCV-specific T-cell activity. *Methods in Molecular Biology*, **2009**, 510, 403-13	1.4	1
3	Analysis of HCV-specific T cells by flow cytometry. *Methods in Molecular Biology*, **2009**, 510, 415-26	1.4	1
2	Natural versus Laboratory World: Incorporating Wild-Derived Microbiota into Preclinical Rodent Models. *Journal of Immunology*, **2021**, 207, 1703-1709	5.3	0
1	Reply: b-cell frequency in HCV-related mixed cryoglobulinemia. *Hepatology*, **2013**, 58, 448-9	11.2	