Keigo Machida

List of Publications by Year
in descending order

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79	4,557	94433	102487
papers	citations	37 h-index	66 g-index

81	81	81	6470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hepatitis C virus induces a mutator phenotype: Enhanced mutations of immunoglobulin and protooncogenes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4262-4267.	7.1	346
2	NANOG Metabolically Reprograms Tumor-Initiating Stem-like Cells through Tumorigenic Changes in Oxidative Phosphorylation and Fatty Acid Metabolism. Cell Metabolism, 2016, 23, 206-219.	16.2	285
3	Hepatitis C Virus Triggers Mitochondrial Permeability Transition with Production of Reactive Oxygen Species, Leading to DNA Damage and STAT3 Activation. Journal of Virology, 2006, 80, 7199-7207.	3.4	222
4	Toll-like receptor 4 mediates synergism between alcohol and HCV in hepatic oncogenesis involving stem cell marker Nanog. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1548-1553.	7.1	210
5	Hepatitis C Virus Induces Toll-Like Receptor 4 Expression, Leading to Enhanced Production of Beta Interferon and Interleukin-6. Journal of Virology, 2006, 80, 866-874.	3.4	184
6	Mitophagy Controls the Activities of Tumor Suppressor p53 to Regulate Hepatic Cancer Stem Cells. Molecular Cell, 2017, 68, 281-292.e5.	9.7	179
7	Hepatitis C Virus Infection Activates the Immunologic (Type II) Isoform of Nitric Oxide Synthase and Thereby Enhances DNA Damage and Mutations of Cellular Genes. Journal of Virology, 2004, 78, 8835-8843.	3.4	170
8	Replication of Hepatitis C Virus RNA on Autophagosomal Membranes. Journal of Biological Chemistry, 2012, 287, 18036-18043.	3.4	156
9	Reciprocal regulation by TLR4 and TGF-Î² in tumor-initiating stem-like cells. Journal of Clinical Investigation, 2013, 123, 2832-2849.	8.2	140
10	Hepatitis C Virus E2-CD81 Interaction Induces Hypermutation of the Immunoglobulin Gene in B Cells. Journal of Virology, 2005, 79, 8079-8089.	3.4	139
11	Necrostatinâ€1 protects against reactive oxygen species (ROS)â€induced hepatotoxicity in acetaminophenâ€induced acute liver failure. FEBS Open Bio, 2014, 4, 777-787.	2.3	127
12	Transcriptional regulation of autophagy-lysosomal function in BRAF-driven melanoma progression and chemoresistance. Nature Communications, 2019, 10, 1693.	12.8	119
13	The chaperone GRP78 is a host auxiliary factor for SARS-CoV-2 and GRP78 depleting antibody blocks viral entry and infection. Journal of Biological Chemistry, 2021, 296, 100759.	3.4	102
14	Isolation of RNA Aptamers Specific to the NS3 Protein of Hepatitis C Virus from a Pool of Completely Random RNA. Virology, 1997, 237, 270-282.	2.4	100
15	Osteopontin deficiency does not prevent but promotes alcoholic neutrophilic hepatitis in mice. Hepatology, 2015, 61, 129-140.	7.3	96
16	Inhibition of Cytochrome c Release in Fas-mediated Signaling Pathway in Transgenic Mice Induced to Express Hepatitis C Viral Proteins. Journal of Biological Chemistry, 2001, 276, 12140-12146.	3.4	92
17	Mouse intragastric infusion (iG) model. Nature Protocols, 2012, 7, 771-781.	12.0	88
18	Association of Hepatitis C Virus Replication Complexes with Microtubules and Actin Filaments Is Dependent on the Interaction of NS3 and NS5A. Journal of Virology, 2008, 82, 8838-8848.	3.4	87

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19	Pluripotency factor-mediated expression of the leptin receptor (OB-R) links obesity to oncogenesis through tumor-initiating stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 829-834.	7.1	85
20	c-Jun mediates hepatitis C virus hepatocarcinogenesis through signal transducer and activator of transcription 3 and nitric oxide-dependent impairment of oxidative DNA repair. Hepatology, 2010, 52, 480-492.	7.3	84
21	Hepatitis C Virus Inhibits DNA Damage Repair through Reactive Oxygen and Nitrogen Species and by Interfering with the ATM-NBS1/Mre11/Rad50 DNA Repair Pathway in Monocytes and Hepatocytes. Journal of Immunology, 2010, 185, 6985-6998.	0.8	84
22	Hepatitis C virus NS3/4A protein interacts with ATM, impairs DNA repair and enhances sensitivity to ionizing radiation. Virology, 2008, 370, 295-309.	2.4	83
23	â€œSecond Hitâ€•Models of Alcoholic Liver Disease. Seminars in Liver Disease, 2009, 29, 178-187.	3.6	80
24	TLR4 Signaling via NANOG Cooperates With STAT3 to Activate Twist1 and Promote Formation of Tumor-Initiating Stem-Like Cells in Livers of Mice. Gastroenterology, 2016, 150, 707-719.	1.3	76
25	Alcohol and Hepatitis C Virusâ€“Interactions in Immune Dysfunctions and Liver Damage. Alcoholism: Clinical and Experimental Research, 2010, 34, 1675-1686.	2.4	70
26	Polo-Like Kinase 1 Is Involved in Hepatitis C Virus Replication by Hyperphosphorylating NS5A. Journal of Virology, 2010, 84, 7983-7993.	3.4	70
27	Mitochondrial GSH determines the toxic or therapeutic potential of superoxide scavenging in steatohepatitis. Journal of Hepatology, 2012, 57, 852-859.	3.7	70
28	Truncating mutation in the autophagy gene UVRAG confers oncogenic properties and chemosensitivity in colorectal cancers. Nature Communications, 2015, 6, 7839.	12.8	67
29	Hepatitis C virus infects T cells and affects interferon-Î³ signaling in T cell lines. Virology, 2007, 361, 161-173.	2.4	66
30	Hepatitis C Virus Causes Uncoupling of Mitotic Checkpoint and Chromosomal Polyploidy through the Rb Pathway. Journal of Virology, 2009, 83, 12590-12600.	3.4	65
31	The 2-oxoglutarate carrier promotes liver cancer by sustaining mitochondrial GSH despite cholesterol loading. Redox Biology, 2018, 14, 164-177.	9.0	59
32	NUMB phosphorylation destabilizes p53 and promotes selfâ€renewal of tumorâ€initiating cells by a NANOGâ€dependent mechanism in liver cancer. Hepatology, 2015, 62, 1466-1479.	7.3	49
33	Ethanol Augments RANTES/CCL5 Expression in Rat Liver Sinusoidal Endothelial Cells and Human Endothelial Cells via Activation of NF-Î²B, HIF-1Î±, and AP-1. Journal of Immunology, 2009, 183, 5964-5976.	0.8	48
34	Hepatitis C Virus (HCV)-Induced Immunoglobulin Hypermutation Reduces the Affinity and Neutralizing Activities of Antibodies against HCV Envelope Protein. Journal of Virology, 2008, 82, 6711-6720.	3.4	41
35	Cancer stem cells generated by alcohol, diabetes, and hepatitis C virus. Journal of Gastroenterology and Hepatology (Australia), 2012, 27, 19-22.	2.8	41
36	Hepatitis C Virus Infection of T Cells Inhibits Proliferation and Enhances Fas-Mediated Apoptosis by Down-Regulating the Expression of CD44 Splicing Variant 6. Journal of Infectious Diseases, 2009, 199, 726-736.	4.0	39

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37	TGF-Î²/Î²2-spectrin/CTCF-regulated tumor suppression in human stem cell disorder Beckwith-Wiedemann syndrome. Journal of Clinical Investigation, 2016, 126, 527-542.	8.2	39
38	SYNCRIP (synaptotagmin-binding, cytoplasmic RNA-interacting protein) is a host factor involved in hepatitis C virus RNA replication. Virology, 2009, 386, 249-256.	2.4	37
39	Hepatitis C virus has a genetically determined lymphotropism through co-receptor B7.2. Nature Communications, 2017, 8, 13882.	12.8	35
40	Lymphotropic HCV strain can infect human primary naÃ¯ve CD4+ cells and affect their proliferation and IFN-Î³ secretion activity. Journal of Gastroenterology, 2011, 46, 232-241.	5.1	33
41	Hepatitis C Virus and Disrupted Interferon Signaling Promote Lymphoproliferation via Type II CD95 and Interleukins. Gastroenterology, 2009, 137, 285-296.e11.	1.3	32
42	Morphogens and hepatic stellate cell fate regulation in chronic liver disease. Journal of Gastroenterology and Hepatology (Australia), 2012, 27, 94-98.	2.8	31
43	HCV core expression in hepatocytes protects against autoimmune liver injury and promotes liver regeneration in mice. Hepatology, 2006, 44, 936-944.	7.3	28
44	p53 destabilizing protein skews asymmetric division and enhances NOTCH activation to direct self-renewal of TICs. Nature Communications, 2020, 11, 3084.	12.8	26
45	Smad7 regulates compensatory hepatocyte proliferation in damaged mouse liver and positively relates to better clinical outcome in human hepatocellular carcinoma. Clinical Science, 2015, 128, 761-774.	4.3	23
46	The TBC1D15 Oncoprotein Controls Stem Cell Self-Renewal through Destabilization of the Numb-p53 Complex. PLoS ONE, 2013, 8, e57312.	2.5	22
47	TLR4-Dependent Tumor-Initiating Stem Cell-Like Cells (TICs) in Alcohol-Associated Hepatocellular Carcinogenesis. Advances in Experimental Medicine and Biology, 2015, 815, 131-144.	1.6	21
48	Regulation of Hepatitis C Virus Infection by Cellular Retinoic Acid Binding Proteins through the Modulation of Lipid Droplet Abundance. Journal of Virology, 2019, 93, .	3.4	20
49	Toll-Like Receptor Signaling in Liver Diseases. Gastroenterology Research and Practice, 2010, 2010, 1-2.	1.5	18
50	TLRs, Alcohol, HCV, and Tumorigenesis. Gastroenterology Research and Practice, 2010, 2010, 1-8.	1.5	18
51	HCV Infection Enhances Th17 Commitment, Which Could Affect the Pathogenesis of Autoimmune Diseases. PLoS ONE, 2014, 9, e98521.	2.5	18
52	Hepatitis C Virus-Related Lymphomagenesis in a Mouse Model. ISRN Hematology, 2011, 2011, 1-8.	1.6	16
53	Alcohol, TLR4-TGF-Î² antagonism, and liver cancer. Hepatology International, 2014, 8, 408-412.	4.2	16
54	Pluripotency Transcription Factors and Metabolic Reprogramming of Mitochondria in Tumor-Initiating Stem-like Cells. Antioxidants and Redox Signaling, 2018, 28, 1080-1089.	5.4	13

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55	Existence of cancer stem cells in hepatocellular carcinoma: myth or reality?. Hepatology International, 2017, 11, 143-147.	4.2	12
56	Hepatitis C Virus Translation Preferentially Depends on Active RNA Replication. PLoS ONE, 2012, 7, e43600.	2.5	12
57	A Super TLR Agonist to Improve Efficacy of Dendritic Cell Vaccine in Induction of Anti-HCV Immunity. PLoS ONE, 2012, 7, e48614.	2.5	10
58	A review of alcoholâ€“pathogen interactions: New insights into combined disease pathomechanisms. Alcoholism: Clinical and Experimental Research, 2022, 46, 359-370.	2.4	9
59	Oncogenic signaling pathways and origins of tumor-initiating stem-like cells of hepatocellular carcinomas induced by hepatitis C virus, alcohol and/or obesity. Hepatology International, 2014, 8, 330-338.	4.2	8
60	Cell fate, metabolic reprogramming and lncRNA of tumor-initiating stem-like cells induced by alcohol. Chemico-Biological Interactions, 2020, 323, 109055.	4.0	7
61	Tumor-initiating stem-like cells and drug resistance: carcinogenesis through Toll-like receptors, environmental factors, and virus. Drug Delivery and Translational Research, 2013, 3, 152-164.	5.8	6
62	NANOG-Dependent Metabolic Reprogramming and Symmetric Division in Tumor-Initiating Stem-like Cells. Advances in Experimental Medicine and Biology, 2018, 1032, 105-113.	1.6	5
63	State of the art treatment of hepatitis B virus hepatocellular carcinoma and the role of hepatitis B surface antigen postâ€liver transplantation and resection. Liver International, 2022, 42, 288-298.	3.9	5
64	Activated and nonactivated MSCs increase survival in humanized mice after acute liver injury through alcohol binging. Hepatology Communications, 2022, 6, 1549-1560.	4.3	4
65	Immunotherapy and Microbiota for Targeting of Liver Tumor-Initiating Stem-like Cells. Cancers, 2022, 14, 2381.	3.7	4
66	PPARs and Liver Disease. PPAR Research, 2013, 2013, 1-2.	2.4	3
67	Extrahepatic Replication of HCV. , 2016, , 165-184.		3
68	c-JUN inhibits mTORC2 and glucose uptake to promote self-renewal and obesity. IScience, 2022, 25, 104325.	4.1	3
69	Molecular Mechanism of Hepatitis C Virus Carcinogenesis. , 2009, , 93-135.		1
70	Abstract 5357: TLR4-dependent Nanog+ cancer stem cells exhibit defective TGF-Î² signaling through IGF-Akt-Yap1 pathway. , 2010, , .		0
71	Abstract 2447: Novel TLR4-Nanog stemness pathway in liver cancer stem cells confers resistance to TGF-Î²-mediated tumor suppression through YAP1 and IGF2BP3-AKT-mTOR. , 2011, , .		0
72	Abstract 1017: ProtooncogenicTLR4generates NANOG-dependent tumor-initiating stem-like cells through LIN28-Let7 pathway in experimental and clinical carcinogenesis. , 2012, , .		0

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73	Lymphotropism of Hepatitis C Virus. , 2012, , 293-323.		0
74	Abstract 4893: ProtooncogenicTLR4induces NANOG-mediated oncogenic signaling via synergistic interaction with STAT3 pathway in experimental and clinical tumor-initiating cells.. , 2013, , .		0
75	Abstract 4111: Vitamin D for prevention of liver cancer in the setting of disrupted TGF-Î² signaling pathway. , 2014, , .		0
76	Abstract 4794: NANOG represses mitochondrial energy production and promotes fatty acid synthesis to promote self-renewal in tumor-initiating cells. , 2014, , .		0
77	Abstract 248: Vitamin D deficiency promotes hepatocellular carcinoma tumor growth in TGF-Î² impaired mice by Smad3 heterozygous deletion. , 2014, , .		0
78	Abstract 892: Vitamin D deficiency regulates TLR7 to promote hepatocellular cancer in TGF-Î²/Smad3 heterozygous mice. , 2015, , .		0
79	Abstract 3040: NANOG metabolically reprograms tumor-initiating stem-like cells in oxidative phosphorylation and fatty acid metabolism. , 2015, , .		0