Mathias HeikenwÃ¤lder

List of Publications by Year
in descending order

129 papers	22,603 citations	13865 67 h-index	14208 128 g-index
134 all docs	134 docs citations	134 times ranked	29082 citing authors

#	Article	IF	Citations
1	Senescence surveillance of pre-malignant hepatocytes limits liver cancer development. Nature, 2011, 479, 547-551.	27.8	1,208
2	Microglia emerge from erythromyeloid precursors via Pu.1- and Irf8-dependent pathways. Nature Neuroscience, 2013, 16, 273-280.	14.8	1,121
3	Microglia in the adult brain arise from Ly-6ChiCCR2+ monocytes only under defined host conditions. Nature Neuroscience, 2007, 10, 1544-1553.	14.8	910
4	From NASH to HCC: current concepts and future challenges. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 411-428.	17.8	872
5	The maternal microbiota drives early postnatal innate immune development. Science, 2016, 351, 1296-1302.	12.6	871
6	Specific and Nonhepatotoxic Degradation of Nuclear Hepatitis B Virus cccDNA. Science, 2014, 343, 1221-1228.	12.6	774
7	The immunology of hepatocellular carcinoma. Nature Immunology, 2018, 19, 222-232.	14.5	697
8	Reversible Microbial Colonization of Germ-Free Mice Reveals the Dynamics of IgA Immune Responses. Science, 2010, 328, 1705-1709.	12.6	657
9	NASH limits anti-tumour surveillance in immunotherapy-treated HCC. Nature, 2021, 592, 450-456.	27.8	649
10	Immunotherapies for hepatocellular carcinoma. Nature Reviews Clinical Oncology, 2022, 19, 151-172.	27.6	643
11	A new type of microglia gene targeting shows TAK1 to be pivotal in CNS autoimmune inflammation. Nature Neuroscience, 2013, 16, 1618-1626.	14.8	574
12	mTOR regulates MAPKAPK2 translation to control the senescence-associated secretory phenotype. Nature Cell Biology, 2015, 17, 1205-1217.	10.3	552
13	NAFLD causes selective CD4+ T lymphocyte loss and promotes hepatocarcinogenesis. Nature, 2016, 531, 253-257.	27.8	552
14	Metabolic Activation of Intrahepatic CD8+ T Cells and NKT Cells Causes Nonalcoholic Steatohepatitis and Liver Cancer via Cross-Talk with Hepatocytes. Cancer Cell, 2014, 26, 549-564.	16.8	531
15	Peripherally Applied AÎ²-Containing Inoculates Induce Cerebral Î²-Amyloidosis. Science, 2010, 330, 980-982.	12.6	519
16	Lymphoid follicle destruction and immunosuppression after repeated CpG oligodeoxynucleotide administration. Nature Medicine, 2004, 10, 187-192.	30.7	417
17	Distinct Functions of Senescence-Associated Immune Responses in Liver Tumor Surveillance and Tumor Progression. Cancer Cell, 2016, 30, 533-547.	16.8	397
18	Interaction between tumour-infiltrating B cells and T cells controls the progression of hepatocellular carcinoma. Gut, 2017, 66, 342-351.	12.1	359

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19	A Lymphotoxin-Driven Pathway to Hepatocellular Carcinoma. Cancer Cell, 2009, 16, 295-308.	16.8	345
20	The Salmonella Pathogenicity Island (SPI)-2 and SPI-1 Type III Secretion Systems Allow Salmonella Serovar typhimurium to Trigger Colitis via MyD88-Dependent and MyD88-Independent Mechanisms. Journal of Immunology, 2005, 174, 1675-1685.	0.8	344
21	The Microbiota Mediates Pathogen Clearance from the Gut Lumen after Non-Typhoidal Salmonella Diarrhea. PLoS Pathogens, 2010, 6, e1001097.	4.7	314
22	Chemokine-driven lymphocyte infiltration: an early intratumoural event determining long-term survival in resectable hepatocellular carcinoma. Gut, 2012, 61, 427-438.	12.1	307
23	Insights into prion strains and neurotoxicity. Nature Reviews Molecular Cell Biology, 2007, 8, 552-561.	37.0	288
24	Ectopic lymphoid structures function as microniches for tumor progenitor cells in hepatocellular carcinoma. Nature Immunology, 2015, 16, 1235-1244.	14.5	278
25	Platelet GPIbÎ± is a mediator and potential interventional target for NASH and subsequent liver cancer. Nature Medicine, 2019, 25, 641-655.	30.7	259
26	Endothelial CCR2 Signaling Induced by Colon Carcinoma Cells Enables Extravasation via the JAK2-Stat5 and p38MAPK Pathway. Cancer Cell, 2012, 22, 91-105.	16.8	256
27	Interferon-Î³ and Tumor Necrosis Factor-Î± Produced by T Cells Reduce the HBV Persistence Form, cccDNA, Without Cytolysis. Gastroenterology, 2016, 150, 194-205.	1.3	250
28	Induction of cerebral Î²-amyloidosis: Intracerebral versus systemic AÎ² inoculation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12926-12931.	7.1	249
29	Auto-aggressive CXCR6+ CD8 T cells cause liver immune pathology in NASH. Nature, 2021, 592, 444-449.	27.8	233
30	Multidimensional analyses reveal distinct immune microenvironment in hepatitis B virus-related hepatocellular carcinoma. Gut, 2019, 68, 916-927.	12.1	228
31	The immunological and metabolic landscape in primary and metastatic liver cancer. Nature Reviews Cancer, 2021, 21, 541-557.	28.4	212
32	TAK1 Suppresses a NEMO-Dependent but NF-ÎºB-Independent Pathway to Liver Cancer. Cancer Cell, 2010, 17, 481-496.	16.8	207
33	Cardiac glycosides are broad-spectrum senolytics. Nature Metabolism, 2019, 1, 1074-1088.	11.9	207
34	Lethal recessive myelin toxicity of prion protein lacking its central domain. EMBO Journal, 2007, 26, 538-547.	7.8	202
35	Intrahepatic myeloid-cell aggregates enable local proliferation of CD8+ T cells and successful immunotherapy against chronic viral liver infection. Nature Immunology, 2013, 14, 574-583.	14.5	196
36	Positioning of follicular dendritic cells within the spleen controls prion neuroinvasion. Nature, 2003, 425, 957-962.	27.8	195

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37	Pathogenesis of prion diseases: current status and future outlook. Nature Reviews Microbiology, 2006, 4, 765-775.	28.6	192
38	Chronic Lymphocytic Inflammation Specifies the Organ Tropism of Prions. Science, 2005, 307, 1107-1110.	12.6	183
39	T Cells Expressing a Chimeric Antigen Receptor That Binds Hepatitis BÂVirus Envelope Proteins Control Virus Replication in Mice. Gastroenterology, 2013, 145, 456-465.	1.3	180
40	<scp>USP</scp> 18 lack in microglia causes destructive interferonopathy of the mouse brain. EMBO Journal, 2015, 34, 1612-1629.	7.8	178
41	Hepatocellular carcinoma originates from hepatocytes and not from the progenitor/biliary compartment. Journal of Clinical Investigation, 2015, 125, 3891-3903.	8.2	175
42	Coincident Scrapie Infection and Nephritis Lead to Urinary Prion Excretion. Science, 2005, 310, 324-326.	12.6	171
43	SpaceM reveals metabolic states of single cells. Nature Methods, 2021, 18, 799-805.	19.0	170
44	Microbe sampling by mucosal dendritic cells is a discrete, MyD88-independent stepin Î”invG S. Typhimurium colitis. Journal of Experimental Medicine, 2008, 205, 437-450.	8.5	164
45	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. Cell, 2016, 167, 843-857.e14.	28.9	153
46	PTBP1-Mediated Alternative Splicing Regulates the Inflammatory Secretome and the Pro-tumorigenic Effects of Senescent Cells. Cancer Cell, 2018, 34, 85-102.e9.	16.8	152
47	Sorafenib perpetuates cellular anticancer effector functions by modulating the crosstalk between macrophages and natural killer cells. Hepatology, 2013, 57, 2358-2368.	7.3	141
48	Kupffer Cell-Derived Tnf Triggers Cholangiocellular Tumorigenesis through JNK due to Chronic Mitochondrial Dysfunction and ROS. Cancer Cell, 2017, 31, 771-789.e6.	16.8	140
49	The S. Typhimurium Effector SopE Induces Caspase-1 Activation in Stromal Cells to Initiate Gut Inflammation. Cell Host and Microbe, 2009, 6, 125-136.	11.0	135
50	Mucosal or systemic microbiota exposures shape the BÂcell repertoire. Nature, 2020, 584, 274-278.	27.8	132
51	Lineage fate of ductular reactions in liver injury and carcinogenesis. Journal of Clinical Investigation, 2015, 125, 2445-2457.	8.2	131
52	RIP3 Inhibits Inflammatory Hepatocarcinogenesis but Promotes Cholestasis by Controlling Caspase-8- and JNK-Dependent Compensatory Cell Proliferation. Cell Reports, 2013, 4, 776-790.	6.4	124
53	A Dual Role of Caspase-8 in Triggering and Sensing Proliferation-Associated DNA Damage, a Key Determinant of Liver Cancer Development. Cancer Cell, 2017, 32, 342-359.e10.	16.8	122
54	The direct and indirect roles of <scp>HBV</scp> in liver cancer: prospective markers for <scp>HCC</scp> screening and potential therapeutic targets. Journal of Pathology, 2015, 235, 355-367.	4.5	116

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55	Transcriptomeâ€based profiling of yolk sacâ€derived macrophages reveals a role for Irf8 in macrophage maturation. EMBO Journal, 2016, 35, 1730-1744.	7.8	108
56	Hepatocyte-specific deletion of the antiapoptotic protein myeloid cell leukemia-1 triggers proliferation and hepatocarcinogenesis in mice. Hepatology, 2010, 51, 1226-1236.	7.3	106
57	T Cells Engineered to Express a T-Cell Receptor Specific for Glypican-3 to Recognize and Kill Hepatoma Cells InÂVitro and inÂMice. Gastroenterology, 2015, 149, 1042-1052.	1.3	96
58	miRNA-132 induces hepatic steatosis and hyperlipidaemia by synergistic multitarget suppression. Gut, 2018, 67, 1124-1134.	12.1	96
59	XCR1+ type 1 conventional dendritic cells drive liver pathology in non-alcoholic steatohepatitis. Nature Medicine, 2021, 27, 1043-1054.	30.7	95
60	The Liver at the Nexus of Host-Microbial Interactions. Cell Host and Microbe, 2016, 20, 561-571.	11.0	86
61	microRNA 193a-5p Regulates Levels of Nucleolar- and Spindle-Associated Protein 1 to Suppress Hepatocarcinogenesis. Gastroenterology, 2018, 155, 1951-1966.e26.	1.3	86
62	Activated ATF6 Induces Intestinal Dysbiosis and Innate Immune Response to Promote Colorectal Tumorigenesis. Gastroenterology, 2018, 155, 1539-1552.e12.	1.3	85
63	Early and Rapid Engraftment of Bone Marrow-Derived Microglia in Scrapie. Journal of Neuroscience, 2006, 26, 11753-11762.	3.6	82
64	Inhibition of LTÎ²R signalling activates WNT-induced regeneration in lung. Nature, 2020, 588, 151-156.	27.8	81
65	Knockdown of Virus Antigen Expression Increases Therapeutic Vaccine Efficacy in High-Titer Hepatitis B Virus Carrier Mice. Gastroenterology, 2020, 158, 1762-1775.e9.	1.3	78
66	Toll-Like Receptor 3 Expressing Tumor Parenchyma and Infiltrating Natural Killer Cells in Hepatocellular Carcinoma Patients. Journal of the National Cancer Institute, 2012, 104, 1796-1807.	6.3	77
67	Multiple Factors Contribute to the Peripheral Induction of Cerebral Â-Amyloidosis. Journal of Neuroscience, 2014, 34, 10264-10273.	3.6	76
68	Prion pathogenesis in the absence of Tollâ€like receptor signalling. EMBO Reports, 2003, 4, 195-199.	4.5	72
69	Dual Role of the Adaptive Immune System in Liver Injury and Hepatocellular Carcinoma Development. Cancer Cell, 2016, 30, 308-323.	16.8	68
70	The necroptosis-inducing kinase RIPK3 dampens adipose tissue inflammation and glucose intolerance. Nature Communications, 2016, 7, 11869.	12.8	68
71	Chronic Salmonella enterica Serovar Typhimurium-Induced Colitis and Cholangitis in Streptomycin-Pretreated Nramp1+/+ Mice. Infection and Immunity, 2006, 74, 5047-5057.	2.2	65
72	Autonomous TNF is critical for in vivo monocyte survival in steady state and inflammation. Journal of Experimental Medicine, 2017, 214, 905-917.	8.5	63

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73	An Immune Gene Expression Signature Associated With Development of Human Hepatocellular Carcinoma Identifies Mice That Respond to Chemopreventive Agents. Gastroenterology, 2019, 157, 1383-1397.e11.	1.3	62
74	Lymphotoxin, NF-Ä¸B, and Cancer: The Dark Side of Cytokines. Digestive Diseases, 2012, 30, 453-468.	1.9	61
75	Salmonella Transiently Reside in Luminal Neutrophils in the Inflamed Gut. PLoS ONE, 2012, 7, e34812.	2.5	57
76	Progress and problems in the biology, diagnostics, and therapeutics of prion diseases. Journal of Clinical Investigation, 2004, 114, 153-160.	8.2	54
77	Inflammation-Induced Expression and Secretion of MicroRNA 122 Leads to Reduced Blood Levels of Kidney-Derived Erythropoietin and Anemia. Gastroenterology, 2016, 151, 999-1010.e3.	1.3	53
78	Canonical NFâ€ÎºB signaling in hepatocytes acts as a tumorâ€suppressor in hepatitis B virus surface antigenâ€driven hepatocellular carcinoma by controlling the unfolded protein response. Hepatology, 2016, 63, 1592-1607.	7.3	51
79	Liver Inflammation and Hepatobiliary Cancers. Trends in Cancer, 2021, 7, 606-623.	7.4	46
80	Lymphotoxin Î² Receptor Signaling Promotes Development of Autoimmune Pancreatitis. Gastroenterology, 2012, 143, 1361-1374.	1.3	45
81	Direct Effects of Hepatitis B Virus-Encoded Proteins and Chronic Infection in Liver Cancer Development. Digestive Diseases, 2013, 31, 138-151.	1.9	45
82	NADPH Oxidase Deficient Mice Develop Colitis and Bacteremia upon Infection with Normally Avirulent, TTSS-1- and TTSS-2-Deficient Salmonella Typhimurium. PLoS ONE, 2013, 8, e77204.	2.5	44
83	Mouse models of hepatocarcinogenesis: What can we learn for the prevention of human hepatocellular carcinoma?. Oncotarget, 2010, 1, 373-378.	1.8	43
84	Novel patient-derived preclinical models of liver cancer. Journal of Hepatology, 2020, 72, 239-249.	3.7	41
85	Oncogenic driver genes and the inflammatory microenvironment dictate liver tumor phenotype. Hepatology, 2016, 63, 1888-1899.	7.3	40
86	Prions, Cytokines, and Chemokines: A Meeting in Lymphoid Organs. Immunity, 2005, 22, 145-154.	14.3	38
87	Interferonâ€induced degradation of the persistent hepatitis B virus cccDNA form depends on ISG20. EMBO Reports, 2021, 22, e49568.	4.5	38
88	PiggyBac transposon tools for recessive screening identify B-cell lymphoma drivers in mice. Nature Communications, 2019, 10, 1415.	12.8	37
89	Bacterial Colitis Increases Susceptibility to Oral Prion Disease. Journal of Infectious Diseases, 2009, 199, 243-252.	4.0	35
90	IFN-Î³ Hinders Recovery from Mucosal Inflammation during Antibiotic Therapy for Salmonella Gut Infection. Cell Host and Microbe, 2016, 20, 238-249.	11.0	33

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91	Lymphotoxin Î² receptor signalling executesHelicobacter pylori-driven gastric inflammation in a T4SS-dependent manner. Gut, 2017, 66, 1369-1381.	12.1	33
92	Hypoxia inducible factors regulate hepatitis B virus replication by activating the basal core promoter. Journal of Hepatology, 2021, 75, 64-73.	3.7	31
93	Immune homeostasis and regulation of the interferon pathway require myeloid-derived Regnase-3. Journal of Experimental Medicine, 2019, 216, 1700-1723.	8.5	29
94	Mouse models of hepatocarcinogenesis: what can we learn for the prevention of human hepatocellular carcinoma?. Oncotarget, 2010, 1, 373-8.	1.8	28
95	Response to Comment on â€œSpecific and nonhepatotoxic degradation of nuclear hepatitis B virus cccDNAâ€. Science, 2014, 344, 1237-1237.	12.6	27
96	Accelerated Type III Secretion System 2-Dependent Enteropathogenesis by a Salmonella enterica Serovar Enteritidis PT4/6 Strain. Infection and Immunity, 2009, 77, 3569-3577.	2.2	25
97	Hepatitis B Virus Activates Signal Transducer and Activator of Transcription 3 Supporting Hepatocyte Survival and Virus Replication. Cellular and Molecular Gastroenterology and Hepatology, 2017, 4, 339-363.	4.5	25
98	T cells: Friends and foes in NASH pathogenesis and hepatocarcinogenesis. Hepatology, 2022, 75, 1038-1049.	7.3	25
99	Cells and prions: A license to replicate. FEBS Letters, 2009, 583, 2674-2684.	2.8	24
100	PASylated interferon Î± efficiently suppresses hepatitis B virus and induces anti-HBs seroconversion in HBV-transgenic mice. Antiviral Research, 2019, 161, 134-143.	4.1	24
101	Characterization of HCC Mouse Models: Towards an Etiology-Oriented Subtyping Approach. Molecular Cancer Research, 2019, 17, 1493-1502.	3.4	23
102	Repetitive Immunization Enhances the Susceptibility of Mice to Peripherally Administered Prions. PLoS ONE, 2009, 4, e7160.	2.5	22
103	A human liver cell-based system modeling a clinical prognostic liver signature for therapeutic discovery. Nature Communications, 2021, 12, 5525.	12.8	21
104	The therapeutic landscape of hepatocellular carcinoma. Med, 2021, 2, 505-552.	4.4	20
105	Nuclear Translocation of RELB Is Increased in Diseased Human Liver and Promotes Ductular Reaction and Biliary Fibrosis in Mice. Gastroenterology, 2019, 156, 1190-1205.e14.	1.3	19
106	Hepatocyte apoptosis is tumor promoting in murine nonalcoholic steatohepatitis. Cell Death and Disease, 2020, 11, 80.	6.3	18
107	A dual role for hepatocyte-intrinsic canonical NF-ÎºB signalingÂinÂvirus control. Journal of Hepatology, 2020, 72, 960-975.	3.7	18
108	Hypoxiaâ€inducible Factor 1 Alphaâ€“Mediated RelB/APOBEC3B Downâ€regulation Allows Hepatitis B Virus Persistence. Hepatology, 2021, 74, 1766-1781.	7.3	17

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109	Replication stress triggered by nucleotide pool imbalance drives DNA damage and cGAS-STING pathway activation in NAFLD. Developmental Cell, 2022, 57, 1728-1741.e6.	7.0	17
110	The lymphotoxin Î² receptor is a potential therapeutic target in renal inflammation. Kidney International, 2016, 89, 113-126.	5.2	16
111	Inducing Differentiation of Premalignant Hepatic Cells as a Novel Therapeutic Strategy in Hepatocarcinoma. Cancer Research, 2016, 76, 5550-5561.	0.9	15
112	L-Selectin/CD62L Is a Key Driver of Non-Alcoholic Steatohepatitis in Mice and Men. Cells, 2020, 9, 1106.	4.1	15
113	A new class of protein biomarkers based on subcellular distribution: application to a mouse liver cancer model. Scientific Reports, 2019, 9, 6913.	3.3	12
114	T-cell engager antibodies enable T cells to control HBV infection and to target HBsAg-positive hepatoma in mice. Journal of Hepatology, 2021, 75, 1058-1071.	3.7	11
115	Control of APOBEC3B induction and cccDNA decay by NF-ÎºB and miR-138-5p. JHEP Reports, 2021, 3, 100354.	4.9	11
116	The role of lymphotoxin signaling in the development of autoimmune pancreatitis and associated secondary extra-pancreatic pathologies. Cytokine and Growth Factor Reviews, 2014, 25, 125-137.	7.2	9
117	Focal and Local: Ectopic Lymphoid Structures and Aggregates of Myeloid and Other Immune Cells in Liver. Gastroenterology, 2016, 151, 780-783.	1.3	8
118	miRâ€579â€3p Controls Hepatocellular Carcinoma Formation by Regulating the Phosphoinositide 3â€Kinaseâ€“Protein Kinase B Pathway in Chronically Inflamed Liver. Hepatology Communications, 2022, 6, 1467-1481.	4.3	8
119	Lymphotoxinâ€™s Link to Carcinogenesis: Friend or Foe? From Lymphoid Neogenesis to Hepatocellular Carcinoma and Prostate Cancer. Advances in Experimental Medicine and Biology, 2011, 691, 231-249.	1.6	5
120	Spontaneous Cholemia in C57BL/6 Mice Predisposes to Liver Cancer in NASH. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 875-878.	4.5	5
121	Modeling Human Liver Cancer Heterogeneity: Virally Induced Transgenic Models and Mouse Genetic Models of Chronic Liver Inflammation. Current Protocols in Pharmacology, 2014, 67, Unit 14.31.1-17.	4.0	4
122	Learning the Roles of the Hepatic Adaptive Immune System in Hepatocellular Carcinomaâ€”Nature's Guide for Successful Cancer Immunotherapy. Seminars in Liver Disease, 2017, 37, 210-218.	3.6	3
123	Inducers of the NF-ÎºB pathways impair hepatitis delta virus replication and strongly decrease progeny infectivity inÂvitro. JHEP Reports, 2022, 4, 100415.	4.9	3
124	Next Generation of Preclinical Liver Cancer Models. Clinical Cancer Research, 2015, 21, 4254-4256.	7.0	2
125	P(URI)fying Novel Drivers of NASH and HCC: A Feedforward Loop of IL17A via White Adipose Tissue. Cancer Cell, 2016, 30, 15-17.	16.8	1
126	Krebs - Lifestyle und Umweltfaktoren als Risiko. , 2019, , .		1

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127	Lethal lipotoxicity for liver cancer therapy. Nature Cancer, 2021, 2, 138-140.	13.2	0
128	Innate Immunity and Disorders of the Liver. , 2014, , 65-77.		0
129	KrebsfÃ¶rdernde UmwelteinflÃ¼sse und Erkrankungen. , 2019, , 91-107.		0