

# Masafumi Takahashi

## List of Publications by Year in descending order

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104  
papers

4,893  
citations

94269

37  
h-index

102304

66  
g-index

108  
all docs

108  
docs citations

108  
times ranked

6638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammasome Activation of Cardiac Fibroblasts Is Essential for Myocardial Ischemia/Reperfusion Injury. <i>Circulation</i> , 2011, 123, 594-604.	1.6	711
2	Role of NLRP3 Inflammasomes in Atherosclerosis. <i>Journal of Atherosclerosis and Thrombosis</i> , 2017, 24, 443-451.	0.9	214
3	NLRP3 Inflammasome as a Novel Player in Myocardial Infarction. <i>International Heart Journal</i> , 2014, 55, 101-105.	0.5	176
4	Ferroptosis driven by radical oxidation of n-6 polyunsaturated fatty acids mediates acetaminophen-induced acute liver failure. <i>Cell Death and Disease</i> , 2020, 11, 144.	2.7	166
5	Critical role of caspase-1 in vascular inflammation and development of atherosclerosis in Western diet-fed apolipoprotein E-deficient mice. <i>Biochemical and Biophysical Research Communications</i> , 2012, 425, 162-168.	1.0	154
6	Inflammasome Activation by Mitochondrial Oxidative Stress in Macrophages Leads to the Development of Angiotensin II-Induced Aortic Aneurysm. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 127-136.	1.1	153
7	Lysophosphatidylcholine induces apoptosis in human endothelial cells through a p38-mitogen-activated protein kinase-dependent mechanism. <i>Atherosclerosis</i> , 2002, 161, 387-394.	0.4	148
8	Iron overload as a risk factor for hepatic ischemia-reperfusion injury in liver transplantation: Potential role of ferroptosis. <i>American Journal of Transplantation</i> , 2020, 20, 1606-1618.	2.6	146
9	Guidelines for evaluating myocardial cell death. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H891-H922.	1.5	135
10	Fluvastatin Inhibits Matrix Metalloproteinase-1 Expression in Human Vascular Endothelial Cells. <i>Hypertension</i> , 2000, 36, 325-329.	1.3	121
11	New Insights into the Function of the Immunoproteasome in Immune and Nonimmune Cells. <i>Journal of Immunology Research</i> , 2015, 2015, 1-8.	0.9	114
12	NLRP3 Regulates Neutrophil Functions and Contributes to Hepatic Ischemia-Induced Reperfusion Injury Independently of Inflammasomes. <i>Journal of Immunology</i> , 2014, 192, 4342-4351.	0.4	111
13	ARIH2 Ubiquitinates NLRP3 and Negatively Regulates NLRP3 Inflammasome Activation in Macrophages. <i>Journal of Immunology</i> , 2017, 199, 3614-3622.	0.4	105
14	Saturated Fatty Acids Undergo Intracellular Crystallization and Activate the NLRP3 Inflammasome in Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 744-756.	1.1	104
15	Critical Role of Bone Marrow Apoptosis-Associated Speck-Like Protein, an Inflammasome Adaptor Molecule, in Neointimal Formation After Vascular Injury in Mice. <i>Circulation</i> , 2008, 117, 3079-3087.	1.6	101
16	Innate immunity as a target for acute cardioprotection. <i>Cardiovascular Research</i> , 2019, 115, 1131-1142.	1.8	101
17	Involvement of adhesion molecules in human monocyte adhesion to and transmigration through endothelial cells in vitro. <i>Atherosclerosis</i> , 1994, 108, 73-81.	0.4	100
18	Cigarette smoke extract induces ferroptosis in vascular smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H508-H518.	1.5	93

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19	Role of NLRP3 Inflammasomes for Rhabdomyolysis-induced Acute Kidney Injury. <i>Scientific Reports</i> , 2015, 5, 10901.	1.6	87
20	NLRP3 inflammasome as a key driver of vascular disease. <i>Cardiovascular Research</i> , 2022, 118, 372-385.	1.8	84
21	Role of the SDF-1/CXCR4 System in Myocardial Infarction. <i>Circulation Journal</i> , 2010, 74, 418-423.	0.7	82
22	Role of the NLRP3 Inflammasome in Preeclampsia. <i>Frontiers in Endocrinology</i> , 2020, 11, 80.	1.5	68
23	GSDME-Dependent Incomplete Pyroptosis Permits Selective IL-1 $\beta$ Release under Caspase-1 Inhibition. <i>IScience</i> , 2020, 23, 101070.	1.9	67
24	Palmitic acid induces interleukin-1 $\beta$ secretion via NLRP3 inflammasomes and inflammatory responses through ROS production in human placental cells. <i>Journal of Reproductive Immunology</i> , 2016, 116, 104-112.	0.8	63
25	ASC in Renal Collecting Duct Epithelial Cells Contributes to Inflammation and Injury after Unilateral Ureteral Obstruction. <i>American Journal of Pathology</i> , 2014, 184, 1287-1298.	1.9	60
26	Role of the Inflammasome in Myocardial Infarction. <i>Trends in Cardiovascular Medicine</i> , 2011, 21, 37-41.	2.3	57
27	Excess aldosterone is a critical danger signal for inflammasome activation in the development of renal fibrosis in mice. <i>FASEB Journal</i> , 2015, 29, 3899-3910.	0.2	57
28	NLRP3 Deficiency Reduces Macrophage Interleukin-10 Production and Enhances the Susceptibility to Doxorubicin-induced Cardiotoxicity. <i>Scientific Reports</i> , 2016, 6, 26489.	1.6	56
29	NLRP3 Deficiency Improves Angiotensin II-Induced Hypertension But Not Fetal Growth Restriction During Pregnancy. <i>Endocrinology</i> , 2015, 156, 4281-4292.	1.4	54
30	NLRP3 Protein Deficiency Exacerbates Hyperoxia-induced Lethality through Stat3 Protein Signaling Independent of Interleukin-1 $\beta$ . <i>Journal of Biological Chemistry</i> , 2015, 290, 5065-5077.	1.6	53
31	Loop Between NLRP3 Inflammasome and Reactive Oxygen Species. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 784-796.	2.5	51
32	Exogenous nanoparticles and endogenous crystalline molecules as danger signals for the NLRP3 inflammasomes. <i>Journal of Cellular Physiology</i> , 2019, 234, 5436-5450.	2.0	46
33	Oligomerized CARD16 promotes caspase-1 assembly and IL-1 $\beta$ processing. <i>FEBS Open Bio</i> , 2015, 5, 348-356.	1.0	45
34	Interaction of Neutrophils with Macrophages Promotes IL-1 $\beta$ Maturation and Contributes to Hepatic Ischemia-Reperfusion Injury. <i>Journal of Immunology</i> , 2017, 199, 3306-3315.	0.4	44
35	Cell-Specific Roles of NLRP3 Inflammasome in Myocardial Infarction. <i>Journal of Cardiovascular Pharmacology</i> , 2019, 74, 188-193.	0.8	44
36	The crystal-induced activation of NLRP3 inflammasomes in atherosclerosis. <i>Inflammation and Regeneration</i> , 2017, 37, 18.	1.5	41

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37	Infiltration of M1, but not M2, macrophages is impaired after unilateral ureter obstruction in Nrf2-deficient mice. <i>Scientific Reports</i> , 2017, 7, 8801.	1.6	38
38	Monocyte-endothelial cell interaction in atherogenesis and thrombosis. <i>Clinical Cardiology</i> , 1998, 21, 11-14.	0.7	37
39	Establishment of lacZ-transgenic rats: a tool for regenerative research in myocardium. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 904-908.	1.0	37
40	Crucial role of NLRP3 inflammasome in a murine model of Kawasaki disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 138, 185-196.	0.9	37
41	Interferon-Tau Attenuates Uptake of Nanoparticles and Secretion of Interleukin-1 $\beta$ in Macrophages. <i>PLoS ONE</i> , 2014, 9, e113974.	1.1	31
42	Transplantation of adipose tissue-derived stem cells improves cardiac contractile function and electrical stability in a rat myocardial infarction model. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 139-149.	0.9	31
43	The cardiac glycoside ouabain activates NLRP3 inflammasomes and promotes cardiac inflammation and dysfunction. <i>PLoS ONE</i> , 2017, 12, e0176676.	1.1	31
44	Torsades de Pointes Ventricular Tachycardia Induced by Mosapride and Flecainide in the Presence of Hypokalemia. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2001, 24, 119-121.	0.5	28
45	The eNOS-NO pathway attenuates kidney dysfunction via suppression of inflammasome activation in aldosterone-induced renal injury model mice. <i>PLoS ONE</i> , 2018, 13, e0203823.	1.1	28
46	NLRP3 Inflammasome Activation in Lung Vascular Endothelial Cells Contributes to Intestinal Ischemia/Reperfusion-Induced Acute Lung Injury. <i>Journal of Immunology</i> , 2020, 205, 1393-1405.	0.4	28
47	Immunoproteasome subunit LMP7 Deficiency Improves Obesity and Metabolic Disorders. <i>Scientific Reports</i> , 2015, 5, 15883.	1.6	24
48	Mechanisms of islet damage mediated by pancreas cold ischemia/rewarming. <i>Cryobiology</i> , 2016, 73, 126-134.	0.3	24
49	Glucose regulates hypoxia-induced NLRP3 inflammasome activation in macrophages. <i>Journal of Cellular Physiology</i> , 2020, 235, 7554-7566.	2.0	24
50	Suppressive Role of Endogenous Endothelial Monocyte Chemoattractant Protein-1 on Monocyte Transendothelial Migration In Vitro. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1995, 15, 629-636.	1.1	24
51	Myeloid HMG-CoA (3-Hydroxy-3-Methylglutaryl-Coenzyme A) Reductase Determines Atherosclerosis by Modulating Migration of Macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 2590-2600.	1.1	23
52	dsDNA-induced AIM2 pyroptosis halts aberrant inflammation during rhabdomyolysis-induced acute kidney injury. <i>Cell Death and Differentiation</i> , 2022, 29, 2487-2502.	5.0	23
53	Palmitic acid activates NLRP3 inflammasome and induces placental inflammation during pregnancy in mice. <i>Journal of Reproduction and Development</i> , 2020, 66, 241-248.	0.5	21
54	Fluvastatin Enhances Apoptosis in Cytokine-Stimulated Vascular Smooth Muscle Cells. <i>Journal of Cardiovascular Pharmacology</i> , 2002, 39, 310-317.	0.8	19

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55	Adeno-associated Virus Vector-mediated Interleukin-10 Induction Prevents Vascular Inflammation in a Murine Model of Kawasaki Disease. <i>Scientific Reports</i> , 2018, 8, 7601.	1.6	19
56	Inflammasome-Independent and Atypical Processing of IL-1 $\beta$ Contributes to Acid Aspiration-Induced Acute Lung Injury. <i>Journal of Immunology</i> , 2019, 203, 236-246.	0.4	19
57	IL-1 $\beta$ Plays an Important Role in Pressure Overload-Induced Atrial Fibrillation in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2019, 42, 543-546.	0.6	19
58	$\beta$ -very low density lipoprotein enhances inducible nitric oxide synthase expression in cytokine-stimulated vascular smooth muscle cells. <i>Atherosclerosis</i> , 2002, 162, 307-313.	0.4	18
59	Calcioprotein Particles Induce IL-1 $\beta$ -Mediated Inflammation through NLRP3 Inflammasome-Dependent and -Independent Mechanisms. <i>ImmunoHorizons</i> , 2021, 5, 602-614.	0.8	16
60	Isolated Tricuspid Valve Endocarditis Due to <i>Candida Parapsilosis</i> Associated with Long-term Central Venous Catheter Implantation.. <i>Internal Medicine</i> , 2001, 40, 403-404.	0.3	15
61	Caspase-1 deficiency promotes high-fat diet-induced adipose tissue inflammation and the development of obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E881-E890.	1.8	15
62	Inflammasome Activation Aggravates Cutaneous Xanthomatosis and Atherosclerosis in ACAT1 (Acyl-CoA Cholesterol Acyltransferase 1) Deficiency in Bone Marrow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 2576-2589.	1.1	15
63	Role of TLR5 in inflammation and tissue damage after intestinal ischemia-reperfusion injury. <i>Biochemical and Biophysical Research Communications</i> , 2019, 519, 15-22.	1.0	15
64	Cutting Edge: G Protein Subunit $\beta$ 1 Negatively Regulates NLRP3 Inflammasome Activation. <i>Journal of Immunology</i> , 2019, 202, 1942-1947.	0.4	15
65	Interleukin-1 $\beta$ attenuates $\beta$ -very low-density lipoprotein uptake and its receptor expression in vascular smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2005, 38, 637-646.	0.9	14
66	Crucial Role of NLRP3 Inflammasome in the Development of Peritoneal Dialysis-related Peritoneal Fibrosis. <i>Scientific Reports</i> , 2019, 9, 10363.	1.6	14
67	Serum Mac-2 binding protein glycosylation isomer predicts the activation of hepatic stellate cells after liver transplantation. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2019, 34, 418-424.	1.4	13
68	Characterization of cardiac oxidative stress levels in patients with atrial fibrillation. <i>Heart and Vessels</i> , 2016, 31, 80-87.	0.5	11
69	NLRP3 Inflammasome as a Common Denominator of Atherosclerosis and Abdominal Aortic Aneurysm. <i>Circulation Journal</i> , 2021, 85, 2129-2136.	0.7	11
70	Neurogenic Pulmonary Edema and Large Negative T Waves Associated with Subarachnoid Hemorrhage.. <i>Internal Medicine</i> , 2001, 40, 826-828.	0.3	10
71	Role of ferroptosis in acetaminophen-induced hepatotoxicity. <i>Archives of Toxicology</i> , 2020, 94, 1769-1770.	1.9	10
72	Multicystic aneurysmal dilatation of bilateral coronary artery fistula. <i>Catheterization and Cardiovascular Diagnosis</i> , 1994, 31, 290-292.	0.7	9

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73	Î²-hydroxybutyrate suppresses NLRP3 inflammasome-mediated placental inflammation and lipopolysaccharide-induced fetal absorption. <i>Journal of Reproductive Immunology</i> , 2021, 148, 103433.	0.8	9
74	NLRP3 inflammasome is involved in testicular inflammation induced by lipopolysaccharide in mice. <i>American Journal of Reproductive Immunology</i> , 2022, 87, e13527.	1.2	9
75	Cryo-sensitive aggregation triggers NLRP3 inflammasome assembly in cryopyrin-associated periodic syndrome. <i>ELife</i> , 0, 11, .	2.8	9
76	Involvement of a proapoptotic gene (BBC3) in islet injury mediated by cold preservation and rewarming. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E1016-E1026.	1.8	8
77	Transient Complete Atrioventricular Block Occurring 1 Week After Radiofrequency Ablation for the Treatment of Atrioventricular Nodal Re-Entrant Tachycardia.. <i>Circulation Journal</i> , 2002, 66, 1073-1075.	0.7	7
78	Safety and efficacy of in-hospital cardiac rehabilitation following antiarrhythmic therapy for patients with electrical storm. <i>Journal of Cardiology</i> , 2019, 73, 171-178.	0.8	7
79	Saturated fatty acid-crystals activate NLRP3 inflammasome. <i>Aging</i> , 2019, 11, 1613-1614.	1.4	7
80	The Frequency of Peripheral Blood CD4+FoxP3+Regulatory T Cells in Women With Pre-eclampsia and Those With High-risk Factors for Pre-eclampsia. <i>Hypertension in Pregnancy</i> , 2015, 34, 443-455.	0.5	6
81	Circulating nucleated peripheral blood cells contribute to early-phase meniscal healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 609-617.	1.3	6
82	ASC regulates platelet activation and contributes to thrombus formation independent of NLRP3 inflammasome. <i>Biochemical and Biophysical Research Communications</i> , 2020, 531, 125-132.	1.0	5
83	Letter to the Editor. <i>Circulation Research</i> , 2001, 88, E31.	2.0	4
84	Acetaminophen-induced hepatotoxicity: different mechanisms of acetaminophen-induced ferroptosis and mitochondrial damage. <i>Archives of Toxicology</i> , 2020, 94, 2255-2257.	1.9	4
85	Decreased circulating levels of plasmacytoid dendritic cells in women with early-onset preeclampsia. <i>Journal of Reproductive Immunology</i> , 2020, 141, 103170.	0.8	3
86	Role of Innate Immune System in Inflammation and Cardiac Remodeling After Myocardial Infarction. <i>Current Vascular Pharmacology</i> , 2015, 13, 20-25.	0.8	2
87	High-Mobility Group Box 1 Protein in Myocardial Infarction: Should it be Stimulated or Inhibited?. <i>Journal of Atherosclerosis and Thrombosis</i> , 2015, 22, 553-554.	0.9	2
88	Role of NLRP3 Inflammasomes in Hepatic Ischemia-reperfusion Injury. <i>Inflammation and Regeneration</i> , 2015, 35, 061-068.	1.5	2
89	RIP140 as a novel therapeutic target in the treatment of atherosclerosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 136-138.	0.9	2
90	The origin and distribution of CD68, CD163, and Î±SMA<sup>+</sup> cells in the early phase after meniscal resection in a parabiotic rat model. <i>Connective Tissue Research</i> , 2017, 58, 562-572.	1.1	2

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91	Endothelial Dysfunction Accelerates Impairment of Mitochondrial Function in Ageing Kidneys via Inflammasome Activation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9269.	1.8	2
92	Reply to Letter Regarding Article, "NLRP3 Inflammasome as a Therapeutic Target in Myocardial Infarction". <i>International Heart Journal</i> , 2014, 55, 380-380.	0.5	1
93	Letter by Takahashi Regarding Article "Targeting Interleukin-1 in Heart Disease". <i>Circulation</i> , 2014, 130, e62.	1.6	1
94	Letter by Usui et al Regarding Article, "Inhibition of Interleukin-1 <sup>β</sup> Decreases Aneurysm Formation and Progression in a Novel Model of Thoracic Aortic Aneurysm". <i>Circulation</i> , 2015, 131, e399.	1.6	1
95	Letter by Karasawa and Takahashi Regarding Article, "Anti-inflammatory and Antiatherogenic Effects of the Inflammasome NLRP3 Inhibitor Arglaβin in ApoE2.Ki Mice Fed a High-Fat Diet". <i>Circulation</i> , 2015, 132, e249.	1.6	1
96	Implications of immune-inflammatory responses in smooth muscle dysfunction and disease. <i>Journal of Smooth Muscle Research</i> , 2019, 55, 81-107.	0.7	1
97	Oral Mucosal Immunization with a Particle-mediated Gene Gun in Animals. <i>Oral Medicine &amp; Pathology</i> , 2004, 9, 13-18.	0.3	1
98	Interleukin-1, IL-1. <i>The Journal of Japan Atherosclerosis Society</i> , 1996, 24, 5-8.	0.0	1
99	Title is missing!. <i>Cardiovascular Engineering (Dordrecht, Netherlands)</i> , 2003, 3, 63-69.	1.0	0
100	Comment on "Radiation Exposure Induces Inflammasome Pathway Activation in Immune Cells". <i>Journal of Immunology</i> , 2015, 194, 5039.1-5039.	0.4	0
101	Role of NLRP3 Inflammasome in Atherosclerosis and Aortic Aneurysm. <i>The Journal of Japanese College of Angiology</i> , 2019, 59, 83-87.	0.1	0
102	Plaque and monocytes/macrophages. <i>The Journal of Japan Atherosclerosis Society</i> , 1998, 26, 37-40.	0.0	0
103	Sterile inflammation and inflammasome in cardiovascular medicine: current status and prospects of therapy. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2020, 93, 1-S03-3.	0.0	0
104	Abstract 13069: NLRP3 Inflammasome Promotes Vasculitis of Kawasaki Disease. <i>Circulation</i> , 2020, 142, .	1.6	0