Masafumi Takahashi

List of Publications by Year
in descending order

104	4,893	94269 37	102304 66
papers	citations	h-index	g-index

108	108	108	6638
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NLRP3 inflammasome as a key driver of vascular disease. Cardiovascular Research, 2022, 118, 372-385.	1.8	84
2	Loop Between NLRP3 Inflammasome and Reactive Oxygen Species. Antioxidants and Redox Signaling, 2022, 36, 784-796.	2.5	51
3	NLRP3 inflammasome is involved in testicular inflammation induced by lipopolysaccharide in mice. American Journal of Reproductive Immunology, 2022, 87, e13527.	1.2	9
4	dsDNA-induced AIM2 pyroptosis halts aberrant inflammation during rhabdomyolysis-induced acute kidney injury. Cell Death and Differentiation, 2022, 29, 2487-2502.	5.0	23
5	NLRP3 Inflammasome as a Common Denominator of Atherosclerosis and Abdominal Aortic Aneurysm. Circulation Journal, 2021, 85, 2129-2136.	0.7	11
6	Calciprotein Particles Induce IL-1Î²/Î±â€“Mediated Inflammation through NLRP3 Inflammasome-Dependent and -Independent Mechanisms. ImmunoHorizons, 2021, 5, 602-614.	0.8	16
7	Endothelial Dysfunction Accelerates Impairment of Mitochondrial Function in Ageing Kidneys via Inflammasome Activation. International Journal of Molecular Sciences, 2021, 22, 9269.	1.8	2
8	Î²-hydroxybutyrate suppresses NLRP3 inflammasome-mediated placental inflammation and lipopolysaccharide-induced fetal absorption. Journal of Reproductive Immunology, 2021, 148, 103433.	0.8	9
9	Iron overload as a risk factor for hepatic ischemia-reperfusion injury in liver transplantation: Potential role of ferroptosis. American Journal of Transplantation, 2020, 20, 1606-1618.	2.6	146
10	Crucial role of NLRP3 inflammasome in a murine model of Kawasaki disease. Journal of Molecular and Cellular Cardiology, 2020, 138, 185-196.	0.9	37
11	Decreased circulating levels of plasmacytoid dendritic cells in women with early-onset preeclampsia. Journal of Reproductive Immunology, 2020, 141, 103170.	0.8	3
12	NLRP3 Inflammasome Activation in Lung Vascular Endothelial Cells Contributes to Intestinal Ischemia/Reperfusion-Induced Acute Lung Injury. Journal of Immunology, 2020, 205, 1393-1405.	0.4	28
13	ASC regulates platelet activation and contributes to thrombus formation independent of NLRP3 inflammasome. Biochemical and Biophysical Research Communications, 2020, 531, 125-132.	1.0	5
14	GSDME-Dependent Incomplete Pyroptosis Permits Selective IL-1Î± Release under Caspase-1 Inhibition. IScience, 2020, 23, 101070.	1.9	67
15	Role of ferroptosis in acetaminophen-induced hepatotoxicity. Archives of Toxicology, 2020, 94, 1769-1770.	1.9	10
16	Role of the NLRP3 Inflammasome in Preeclampsia. Frontiers in Endocrinology, 2020, 11, 80.	1.5	68
17	Ferroptosis driven by radical oxidation of n-6 polyunsaturated fatty acids mediates acetaminophen-induced acute liver failure. Cell Death and Disease, 2020, 11, 144.	2.7	166
18	Palmitic acid activates NLRP3 inflammasome and induces placental inflammation during pregnancy in mice. Journal of Reproduction and Development, 2020, 66, 241-248.	0.5	21

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19	Glucose regulates hypoxiaâ€‐induced NLRP3 inflammasome activation in macrophages. Journal of Cellular Physiology, 2020, 235, 7554-7566.	2.0	24
20	Cigarette smoke extract induces ferroptosis in vascular smooth muscle cells. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H508-H518.	1.5	93
21	Acetaminophen-induced hepatotoxicity: different mechanisms of acetaminophen-induced ferroptosis and mitochondrial damage. Archives of Toxicology, 2020, 94, 2255-2257.	1.9	4
22	Sterile inflammation and inflammasome in cardiovascular medicine: current status and prospects of therapy. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 1-S03-3.	0.0	0
23	Abstract 13069: NLRP3 Inflammasome Promotes Vasculitis of Kawasaki Disease. Circulation, 2020, 142, .	1.6	0
24	Serum Macâ€2 binding protein glycosylation isomer predicts the activation of hepatic stellate cells after liver transplantation. Journal of Gastroenterology and Hepatology (Australia), 2019, 34, 418-424.	1.4	13
25	Guidelines for evaluating myocardial cell death. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H891-H922.	1.5	135
26	Crucial Role of NLRP3 Inflammasome in the Development of Peritoneal Dialysis-related Peritoneal Fibrosis. Scientific Reports, 2019, 9, 10363.	1.6	14
27	Role of TLR5 in inflammation and tissue damage after intestinal ischemia-reperfusion injury. Biochemical and Biophysical Research Communications, 2019, 519, 15-22.	1.0	15
28	Inflammasome-Independent and Atypical Processing of IL-1Î² Contributes to Acid Aspirationâ€“Induced Acute Lung Injury. Journal of Immunology, 2019, 203, 236-246.	0.4	19
29	IL-1Î² Plays an Important Role in Pressure Overload-Induced Atrial Fibrillation in Mice. Biological and Pharmaceutical Bulletin, 2019, 42, 543-546.	0.6	19
30	Cutting Edge: G Protein Subunit Î² 1 Negatively Regulates NLRP3 Inflammasome Activation. Journal of Immunology, 2019, 202, 1942-1947.	0.4	15
31	Implications of immune-inflammatory responses in smooth muscle dysfunction and disease. Journal of Smooth Muscle Research, 2019, 55, 81-107.	0.7	1
32	Role of NLRP3 Inflammasome in Atherosclerosis and Aortic Aneurysm. The Journal of Japanese College of Angiology, 2019, 59, 83-87.	0.1	0
33	Cell-Specific Roles of NLRP3 Inflammasome in Myocardial Infarction. Journal of Cardiovascular Pharmacology, 2019, 74, 188-193.	0.8	44
34	Innate immunity as a target for acute cardioprotection. Cardiovascular Research, 2019, 115, 1131-1142.	1.8	101
35	Safety and efficacy of in-hospital cardiac rehabilitation following antiarrhythmic therapy for patients with electrical storm. Journal of Cardiology, 2019, 73, 171-178.	0.8	7
36	Exogenous nanoparticles and endogenous crystalline molecules as danger signals for theÂNLRP3 inflammasomes. Journal of Cellular Physiology, 2019, 234, 5436-5450.	2.0	46

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37	Saturated fatty acid-crystals activate NLRP3 inflammasome. Aging, 2019, 11, 1613-1614.	1.4	7
38	Saturated Fatty Acids Undergo Intracellular Crystallization and Activate the NLRP3 Inflammasome in Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 744-756.	1.1	104
39	The eNOS-NO pathway attenuates kidney dysfunction via suppression of inflammasome activation in aldosterone-induced renal injury model mice. PLoS ONE, 2018, 13, e0203823.	1.1	28
40	Inflammasome Activation Aggravates Cutaneous Xanthomatosis and Atherosclerosis in ACAT1 (Acyl-CoA Cholesterol Acyltransferase 1) Deficiency in Bone Marrow. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2576-2589.	1.1	15
41	Myeloid HMG-CoA (3-Hydroxy-3-Methylglutaryl-Coenzyme A) Reductase Determines Atherosclerosis by Modulating Migration of Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2590-2600.	1.1	23
42	Adeno-associated Virus Vector-mediated Interleukin-10 Induction Prevents Vascular Inflammation in a Murine Model of Kawasaki Disease. Scientific Reports, 2018, 8, 7601.	1.6	19
43	Circulating nucleated peripheral blood cells contribute to early-phase meniscal healing. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 609-617.	1.3	6
44	The origin and distribution of CD68, CD163, and Î±SMA⁺ cells in the early phase after meniscal resection in a parabiotic rat model. Connective Tissue Research, 2017, 58, 562-572.	1.1	2
45	Interaction of Neutrophils with Macrophages Promotes IL-1Î² Maturation and Contributes to Hepatic Ischemiaâ€“Reperfusion Injury. Journal of Immunology, 2017, 199, 3306-3315.	0.4	44
46	ARIH2 Ubiquitinates NLRP3 and Negatively Regulates NLRP3 Inflammasome Activation in Macrophages. Journal of Immunology, 2017, 199, 3614-3622.	0.4	105
47	Infiltration of M1, but not M2, macrophages is impaired after unilateral ureter obstruction in Nrf2-deficient mice. Scientific Reports, 2017, 7, 8801.	1.6	38
48	Role of NLRP3 Inflammasomes in Atherosclerosis. Journal of Atherosclerosis and Thrombosis, 2017, 24, 443-451.	0.9	214
49	The crystal-induced activation of NLRP3 inflammasomes in atherosclerosis. Inflammation and Regeneration, 2017, 37, 18.	1.5	41
50	The cardiac glycoside ouabain activates NLRP3 inflammasomes and promotes cardiac inflammation and dysfunction. PLoS ONE, 2017, 12, e0176676.	1.1	31
51	Characterization of cardiac oxidative stress levels in patients with atrial fibrillation. Heart and Vessels, 2016, 31, 80-87.	0.5	11
52	Involvement of a proapoptotic gene (BBC3) in islet injury mediated by cold preservation and rewarming. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E1016-E1026.	1.8	8
53	Mechanisms of islet damage mediated by pancreas cold ischemia/rewarming. Cryobiology, 2016, 73, 126-134.	0.3	24
54	Caspase-1 deficiency promotes high-fat diet-induced adipose tissue inflammation and the development of obesity. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E881-E890.	1.8	15

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55	NLRP3 Deficiency Reduces Macrophage Interleukin-10 Production and Enhances the Susceptibility to Doxorubicin-induced Cardiotoxicity. Scientific Reports, 2016, 6, 26489.	1.6	56
56	Palmitic acid induces interleukin-1Î² secretion via NLRP3 inflammasomes and inflammatory responses through ROS production in human placental cells. Journal of Reproductive Immunology, 2016, 116, 104-112.	0.8	63
57	NLRP3 Deficiency Improves Angiotensin II-Induced Hypertension But Not Fetal Growth Restriction During Pregnancy. Endocrinology, 2015, 156, 4281-4292.	1.4	54
58	Immunoproteasome subunit LMP7 Deficiency Improves Obesity and Metabolic Disorders. Scientific Reports, 2015, 5, 15883.	1.6	24
59	Role of Innate Immune System in Inflammation and Cardiac Remodeling After Myocardial Infarction. Current Vascular Pharmacology, 2015, 13, 20-25.	0.8	2
60	High-Mobility Group Box 1 Protein in Myocardial Infarction: Should it be Stimulated or Inhibited?. Journal of Atherosclerosis and Thrombosis, 2015, 22, 553-554.	0.9	2
61	New Insights into the Function of the Immunoproteasome in Immune and Nonimmune Cells. Journal of Immunology Research, 2015, 2015, 1-8.	0.9	114
62	Role of NLRP3 Inflammasomes in Hepatic Ischemia-reperfusion Injury. Inflammation and Regeneration, 2015, 35, 061-068.	1.5	2
63	Role of NLRP3 Inflammasomes for Rhabdomyolysis-induced Acute Kidney Injury. Scientific Reports, 2015, 5, 10901.	1.6	87
64	The Frequency of Peripheral Blood CD4+FoxP3+Regulatory T Cells in Women With Pre-eclampsia and Those With High-risk Factors for Pre-eclampsia. Hypertension in Pregnancy, 2015, 34, 443-455.	0.5	6
65	RIP140 as a novel therapeutic target in the treatment of atherosclerosis. Journal of Molecular and Cellular Cardiology, 2015, 81, 136-138.	0.9	2
66	Transplantation of adipose tissue-derived stem cells improves cardiac contractile function and electrical stability in a rat myocardial infarction model. Journal of Molecular and Cellular Cardiology, 2015, 81, 139-149.	0.9	31
67	Comment on â€œRadiation Exposure Induces Inflammasome Pathway Activation in Immune Cellsâ€• Journal of Immunology, 2015, 194, 5039.1-5039.	0.4	0
68	NLRP3 Protein Deficiency Exacerbates Hyperoxia-induced Lethality through Stat3 Protein Signaling Independent of Interleukin-1Î². Journal of Biological Chemistry, 2015, 290, 5065-5077.	1.6	53
69	Letter by Usui et al Regarding Article, â€œInhibition of Interleukin-1Î² Decreases Aneurysm Formation and Progression in a Novel Model of Thoracic Aortic Aneurysmâ€• Circulation, 2015, 131, e399.	1.6	1
70	Excess aldosterone is a critical danger signal for inflammasome activation in the development of renal fibrosis in mice. FASEB Journal, 2015, 29, 3899-3910.	0.2	57
71	Letter by Karasawa and Takahashi Regarding Article, â€œAnti-inflammatory and Antiatherogenic Effects of the Inflammasome NLRP3 Inhibitor Arglabin in ApoE2.Ki Mice Fed a High-Fat Dietâ€• Circulation, 2015, 132, e249.	1.6	1
72	Oligomerized CARD16 promotes caspaseâ€1 assembly and ILâ€1Î² processing. FEBS Open Bio, 2015, 5, 348-356.	1.0	45

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73	Inflammasome Activation by Mitochondrial Oxidative Stress in Macrophages Leads to the Development of Angiotensin IIâ€“Induced Aortic Aneurysm. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 127-136.	1.1	153
74	Interferon-Tau Attenuates Uptake of Nanoparticles and Secretion of Interleukin-1Î² in Macrophages. PLoS ONE, 2014, 9, e113974.	1.1	31
75	NLRP3 Inflammasome as a Novel Player in Myocardial Infarction. International Heart Journal, 2014, 55, 101-105.	0.5	176
76	Reply to Letter Regarding Article, â€œNLRP3 Inflammasome as a Therapeutic Target in Myocardial Infarctionâ€• International Heart Journal, 2014, 55, 380-380.	0.5	1
77	Letter by Takahashi Regarding Article â€œTargeting Interleukin-1 in Heart Diseaseâ€• Circulation, 2014, 130, e62.	1.6	1
78	ASC in Renal Collecting Duct Epithelial Cells Contributes to Inflammation and Injury after Unilateral Ureteral Obstruction. American Journal of Pathology, 2014, 184, 1287-1298.	1.9	60
79	NLRP3 Regulates Neutrophil Functions and Contributes to Hepatic Ischemiaâ€“Reperfusion Injury Independently of Inflammasomes. Journal of Immunology, 2014, 192, 4342-4351.	0.4	111
80	Critical role of caspase-1 in vascular inflammation and development of atherosclerosis in Western diet-fed apolipoprotein E-deficient mice. Biochemical and Biophysical Research Communications, 2012, 425, 162-168.	1.0	154
81	Role of the Inflammasome in Myocardial Infarction. Trends in Cardiovascular Medicine, 2011, 21, 37-41.	2.3	57
82	Inflammasome Activation of Cardiac Fibroblasts Is Essential for Myocardial Ischemia/Reperfusion Injury. Circulation, 2011, 123, 594-604.	1.6	711
83	Role of the SDF-1/CXCR4 System in Myocardial Infarction. Circulation Journal, 2010, 74, 418-423.	0.7	82
84	Critical Role of Bone Marrow Apoptosis-Associated Speck-Like Protein, an Inflammasome Adaptor Molecule, in Neointimal Formation After Vascular Injury in Mice. Circulation, 2008, 117, 3079-3087.	1.6	101
85	Interleukin-1? attenuates ?-very low-density lipoprotein uptake and its receptor expression in vascular smooth muscle cells. Journal of Molecular and Cellular Cardiology, 2005, 38, 637-646.	0.9	14
86	Oral Mucosal Immunization with a Particle-mediated Gene Gun in Animals. Oral Medicine & Pathology, 2004, 9, 13-18.	0.3	1
87	Title is missing!. Cardiovascular Engineering (Dordrecht, Netherlands), 2003, 3, 63-69.	1.0	0
88	Establishment of lacZ-transgenic rats: a tool for regenerative research in myocardium. Biochemical and Biophysical Research Communications, 2003, 305, 904-908.	1.0	37
89	Fluvastatin Enhances Apoptosis in Cytokine-Stimulated Vascular Smooth Muscle Cells. Journal of Cardiovascular Pharmacology, 2002, 39, 310-317.	0.8	19
90	Transient Complete Atrioventricular Block Occurring 1 Week After Radiofrequency Ablation for the Treatment of Atrioventricular Nodal Re-Entrant Tachycardia.. Circulation Journal, 2002, 66, 1073-1075.	0.7	7

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91	Lysophosphatidylcholine induces apoptosis in human endothelial cells through a p38-mitogen-activated protein kinase-dependent mechanism. Atherosclerosis, 2002, 161, 387-394.	0.4	148
92	Î²-very low density lipoprotein enhances inducible nitric oxide synthase expression in cytokine-stimulated vascular smooth muscle cells. Atherosclerosis, 2002, 162, 307-313.	0.4	18
93	Isolated Tricuspid Valve Endocarditis Due to Candida Parapsilosis Associated with Long-term Central Venous Catheter Implantation.. Internal Medicine, 2001, 40, 403-404.	0.3	15
94	Neurogenic Pulmonary Edema and Large Negative T Waves Associated with Subarachnoid Hemorrhage.. Internal Medicine, 2001, 40, 826-828.	0.3	10
95	Torsades de Pointes Ventricular Tachycardia Induced by Mosapride and Flecainide in the Presence of Hypokalemia. PACE - Pacing and Clinical Electrophysiology, 2001, 24, 119-121.	0.5	28
96	Letter to the Editor. Circulation Research, 2001, 88, E31.	2.0	4
97	Fluvastatin Inhibits Matrix Metalloproteinase-1 Expression in Human Vascular Endothelial Cells. Hypertension, 2000, 36, 325-329.	1.3	121
98	Monocyteâ€endothelial cell interaction in atherogenesis and thrombosis. Clinical Cardiology, 1998, 21, 11-14.	0.7	37
99	Plaque and monocytes/macrophages. The Journal of Japan Atherosclerosis Society, 1998, 26, 37-40.	0.0	0
100	Interleukin-1, IL-1. The Journal of Japan Atherosclerosis Society, 1996, 24, 5-8.	0.0	1
101	Suppressive Role of Endogenous Endothelial Monocyte Chemoattractant Proteinâ€“1 on Monocyte Transendothelial Migration In Vitro. Arteriosclerosis, Thrombosis, and Vascular Biology, 1995, 15, 629-636.	1.1	24
102	Multicystic aneurysmal dilatation of bilateral coronary artery fistula. Catheterization and Cardiovascular Diagnosis, 1994, 31, 290-292.	0.7	9
103	Involvement of adhesion molecules in human monocyte adhesion to and transmigration through endothelial cells in vitro. Atherosclerosis, 1994, 108, 73-81.	0.4	100
104	Cryo-sensitive aggregation triggers NLRP3 inflammasome assembly in cryopyrin-associated periodic syndrome. ELife, 0, 11, .	2.8	9