

Sachio Morimoto

List of Publications by Year in descending order

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108
papers

3,586
citations

117571

34
h-index

155592

55
g-index

110
all docs

110
docs citations

110
times ranked

4429
citing authors

#	ARTICLE	IF	CITATIONS
1	Knock-In Mouse Model of Dilated Cardiomyopathy Caused by Troponin Mutation. <i>Circulation Research</i> , 2007, 101, 185-194.	2.0	163
2	A Novel Mechanism of JNK1 Activation. <i>Journal of Biological Chemistry</i> , 1997, 272, 16657-16662.	1.6	159
3	Sarcomeric proteins and inherited cardiomyopathies. <i>Cardiovascular Research</i> , 2007, 77, 659-666.	1.8	153
4	Ca ²⁺ -sensitizing effects of the mutations at Ile-79 and Arg-92 of troponin T in hypertrophic cardiomyopathy. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 275, C200-C207.	2.1	111
5	Ca ²⁺ Sensitization and Potentiation of the Maximum Level of Myofibrillar ATPase Activity Caused by Mutations of Troponin T Found in Familial Hypertrophic Cardiomyopathy. <i>Journal of Biological Chemistry</i> , 1999, 274, 8806-8812.	1.6	108
6	Quercetin attenuates doxorubicin cardiotoxicity by modulating β -tubulin expression. <i>British Journal of Pharmacology</i> , 2014, 171, 4440-4454.	2.7	107
7	Dictyostelium Differentiation-inducing Factor-3 Activates Glycogen Synthase Kinase-3 β and Degrades Cyclin D1 in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 9663-9670.	1.6	96
8	Cardiac troponin T mutation R141W found in dilated cardiomyopathy stabilizes the troponin T-tropomyosin interaction and causes a Ca ²⁺ desensitization. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 1421-1427.	0.9	92
9	Functional Consequences of the Mutations in Human Cardiac Troponin I Gene Found in Familial Hypertrophic Cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2001, 33, 2095-2107.	0.9	88
10	Ca ²⁺ /Calmodulin-Dependent Kinase II β Causes Heart Failure by Accumulation of p53 in Dilated Cardiomyopathy. <i>Circulation</i> , 2010, 122, 891-899.	1.6	81
11	Celecoxib inhibits the expression of survivin via the suppression of promoter activity in human colon cancer cells. <i>Biochemical Pharmacology</i> , 2007, 73, 1318-1329.	2.0	76
12	Resident cardiac macrophages mediate adaptive myocardial remodeling. <i>Immunity</i> , 2021, 54, 2072-2088.e7.	6.6	76
13	Drastic Ca ²⁺ sensitization of myofilament associated with a small structural change in troponin I in inherited restrictive cardiomyopathy. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1519-1526.	1.0	72
14	Acceleration of bone regeneration by local application of lithium: Wnt signal-mediated osteoblastogenesis and Wnt signal-independent suppression of osteoclastogenesis. <i>Biochemical Pharmacology</i> , 2014, 90, 397-405.	2.0	72
15	Association between Arterial Stiffness and Cerebral White Matter Lesions in Community-Dwelling Elderly Subjects. <i>Hypertension Research</i> , 2008, 31, 75-81.	1.5	71
16	Ca ²⁺ - and Sr ²⁺ -Sensitivity of the ATPase Activity of Rabbit Skeletal Myofibrils: Effect of the Complete Substitution of Troponin C with Cardiac Troponin C, Calmodulin, and Parvalbumins1. <i>Journal of Biochemistry</i> , 1987, 101, 291-301.	0.9	69
17	Functional changes in troponin T by a splice donor site mutation that causes hypertrophic cardiomyopathy. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 277, C225-C232.	2.1	69
18	Familial dilated cardiomyopathy mutations uncouple troponin I phosphorylation from changes in myofibrillar Ca ²⁺ sensitivity. <i>Cardiovascular Research</i> , 2013, 99, 65-73.	1.8	68

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19	Biological actions of green tea catechins on cardiac troponin C. <i>British Journal of Pharmacology</i> , 2010, 161, 1034-1043.	2.7	67
20	Targeted disruption of the cardiac troponin T gene causes sarcomere disassembly and defects in heartbeat within the early mouse embryo. <i>Developmental Biology</i> , 2008, 322, 65-73.	0.9	65
21	TRPC3-mediated Ca ²⁺ influx contributes to Rac1-mediated production of reactive oxygen species in MLP-deficient mouse hearts. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 108-113.	1.0	60
22	Involvement of GSK-3 β and DYRK1B in Differentiation-inducing Factor-3-induced Phosphorylation of Cyclin D1 in HeLa Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 38489-38497.	1.6	54
23	Inherited cardiomyopathies caused by troponin mutations. <i>Journal of Geriatric Cardiology</i> , 2013, 10, 91-101.	0.2	54
24	Glycogen synthase kinase-3 β is tyrosine-phosphorylated by MEK1 in human skin fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 2004, 316, 411-415.	1.0	52
25	Knockout of the l-pgds gene aggravates obesity and atherosclerosis in mice. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 851-856.	1.0	47
26	Troponin: Regulatory function and disorders. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 62-73.	1.0	45
27	Functional Consequences of a Carboxyl Terminal Missense Mutation Arg278Cys in Human Cardiac Troponin T. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 79-82.	1.0	41
28	Aryl hydrocarbon receptor mediates laminar fluid shear stress-induced CYP1A1 activation and cell cycle arrest in vascular endothelial cells. <i>Cardiovascular Research</i> , 2007, 77, 809-818.	1.8	41
29	Differentiation-Inducing Factor-1 Alters Canonical Wnt Signaling and Suppresses Alkaline Phosphatase Expression in Osteoblast-Like Cell Lines. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1307-1316.	3.1	39
30	Functional Consequences of the Deletion Mutation Δ Glul6O in Human Cardiac Troponin T. <i>Journal of Biochemistry</i> , 2000, 127, 263-268.	0.9	38
31	Differentiation-inducing factor-1 induces cyclin D1 degradation through the phosphorylation of Thr286 in squamous cell carcinoma. <i>Experimental Cell Research</i> , 2005, 310, 426-433.	1.2	38
32	Depressed Frank-Starling mechanism in the left ventricular muscle of the knock-in mouse model of dilated cardiomyopathy with troponin T deletion mutation Δ K210. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 63, 69-78.	0.9	38
33	Up-regulation of type 2 iodothyronine deiodinase in dilated cardiomyopathy. <i>Cardiovascular Research</i> , 2010, 87, 636-646.	1.8	37
34	Activator Protein-1 Mediates Shear Stress-Induced Prostaglandin D Synthase Gene Expression in Vascular Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 970-975.	1.1	36
35	Targeted Genome Replacement via Homology-directed Repair in Non-dividing Cardiomyocytes. <i>Scientific Reports</i> , 2017, 7, 9363.	1.6	35
36	Acceleration of bone development and regeneration through the Wnt/ β -catenin signaling pathway in mice heterozygously deficient for GSK-3 β . <i>Biochemical and Biophysical Research Communications</i> , 2013, 440, 677-682.	1.0	34

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37	Wnt/ β -Catenin Signaling Contributes to Skeletal Myopathy in Heart Failure via Direct Interaction With Forkhead Box O. <i>Circulation: Heart Failure</i> , 2015, 8, 799-808.	1.6	34
38	Effect of Troponin I Phosphorylation by Protein Kinase A on Length-Dependence of Tension Activation in Skinned Cardiac Muscle Fibers. <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 104-110.	1.0	30
39	Differentiation-inducing factor-1 suppresses gene expression of cyclin D1 in tumor cells. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 903-909.	1.0	30
40	DIF-1 inhibits tumor growth in vivo reducing phosphorylation of GSK-3 β and expressions of cyclin D1 and TCF7L2 in cancer model mice. <i>Biochemical Pharmacology</i> , 2014, 89, 340-348.	2.0	30
41	Blockade of L-type Ca ²⁺ channel attenuates doxorubicin-induced cardiomyopathy via suppression of CaMKII-NF- κ B pathway. <i>Scientific Reports</i> , 2019, 9, 9850.	1.6	30
42	Endogenous Cardiac Troponin T Modulates Ca ²⁺ -Mediated Smooth Muscle Contraction. <i>Scientific Reports</i> , 2012, 2, 979.	1.6	28
43	Role of Troponin I Isoform Switching in Determining the pH Sensitivity of Ca ²⁺ Regulation in Developing Rabbit Cardiac Muscle. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 912-917.	1.0	26
44	Conduction abnormality in gap junction protein connexin45-deficient embryonic stem cell-derived cardiac myocytes. <i>The Anatomical Record</i> , 2004, 280A, 973-979.	2.3	26
45	Therapeutic effect of β -adrenoceptor blockers using a mouse model of dilated cardiomyopathy with a troponin mutation. <i>Cardiovascular Research</i> , 2009, 84, 64-71.	1.8	26
46	Dictyostelium Differentiation-Inducing Factor-1 Binds to Mitochondrial Malate Dehydrogenase and Inhibits Its Activity. <i>Journal of Pharmacological Sciences</i> , 2010, 112, 320-326.	1.1	26
47	Roles of Troponin Isoforms in pH Dependence of Contraction in Rabbit Fast and Slow Skeletal and Cardiac Muscles. <i>Journal of Biochemistry</i> , 1999, 126, 121-129.	0.9	25
48	Association of Serum Lipocalin-Type Prostaglandin D Synthase Levels with Subclinical Atherosclerosis in Untreated Asymptomatic Subjects. <i>Hypertension Research</i> , 2008, 31, 1931-1939.	1.5	25
49	Celecoxib and 2,5-Dimethyl-Celecoxib Prevent Cardiac Remodeling Inhibiting Akt-Mediated Signal Transduction in an Inherited Dilated Cardiomyopathy Mouse Model. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 338, 2-11.	1.3	25
50	Cardiomyopathy-causing deletion K210 in cardiac troponin T alters phosphorylation propensity of sarcomeric proteins. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 934-942.	0.9	24
51	CaMKII-mediated phosphorylation of RyR2 plays a crucial role in aberrant Ca ²⁺ release as an arrhythmogenic substrate in cardiac troponin T-related familial hypertrophic cardiomyopathy. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 1250-1256.	1.0	24
52	Effect of Substitution of Troponin C in Cardiac Myofibrils with Skeletal Troponin C or Calmodulinon the Ca ²⁺ -and Sr ²⁺ -Sensitive ATPase Activity1. <i>Journal of Biochemistry</i> , 1988, 104, 149-154.	0.9	23
53	The involvement of aldosterone in cyclic stretch-mediated activation of NADPH oxidase in vascular smooth muscle cells. <i>Hypertension Research</i> , 2009, 32, 690-699.	1.5	23
54	15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2 and laminar fluid shear stress stabilize c-IAP1 in vascular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H38-H46.	1.5	22

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55	Celecoxib-induced degradation of T-cell factors-1 and -4 in human colon cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 1185-1190.	1.0	22
56	Effect of Myosin Cross-Bridge Interaction with Actin on the Ca ²⁺ -Binding Properties of Troponin C in Fast Skeletal Myofibrils. <i>Journal of Biochemistry</i> , 1991, 109, 120-126.	0.9	20
57	Improvement of Left Ventricular Dysfunction and of Survival Prognosis of Dilated Cardiomyopathy by Administration of Calcium Sensitizer SCH00013 in a Mouse Model. <i>Journal of the American College of Cardiology</i> , 2010, 55, 1503-1505.	1.2	20
58	Anti-angiogenic effects of differentiation-inducing factor-1 involving VEGFR-2 expression inhibition independent of the Wnt/ β -catenin signaling pathway. <i>Molecular Cancer</i> , 2010, 9, 245.	7.9	20
59	DIF-1 inhibits the Wnt/ β -catenin signaling pathway by inhibiting TCF7L2 expression in colon cancer cell lines. <i>Biochemical Pharmacology</i> , 2012, 83, 47-56.	2.0	20
60	Multistep Ion Channel Remodeling and Lethal Arrhythmia Precede Heart Failure in a Mouse Model of Inherited Dilated Cardiomyopathy. <i>PLoS ONE</i> , 2012, 7, e35353.	1.1	20
61	Amino Acid Sequence of Porcine Cardiac Muscle Troponin C1. <i>Journal of Biochemistry</i> , 1989, 106, 55-59.	0.9	19
62	Staurosporine-Induced Cleavage of β -Smooth Muscle Actin During Myofibroblast Apoptosis. <i>Journal of Investigative Dermatology</i> , 2002, 119, 1008-1013.	0.3	19
63	Differentiation-inducing factor-3 inhibits intestinal tumor growth <i>in vitro</i> and <i>in vivo</i> . <i>Journal of Pharmacological Sciences</i> , 2015, 127, 446-455.	1.1	18
64	Survival benefit of ghrelin in the heart failure due to dilated cardiomyopathy. <i>Pharmacology Research and Perspectives</i> , 2014, 2, e00064.	1.1	17
65	Ca ²⁺ Binding to Cardiac Troponin C in the Myofilament Lattice and Its Relation to the Myofibrillar ATPase Activity. <i>FEBS Journal</i> , 1994, 226, 597-602.	0.2	16
66	Differentiation-Inducing Factor-1 Suppresses the Expression of c-Myc in the Human Cancer Cell Lines. <i>Journal of Pharmacological Sciences</i> , 2013, 121, 103-109.	1.1	16
67	2,5-Dimethylcelecoxib prevents pressure-induced left ventricular remodeling through GSK-3 activation. <i>Hypertension Research</i> , 2017, 40, 130-139.	1.5	16
68	Involvement of clusterin in 15-deoxy- $\Delta^{12,14}$ -prostaglandin J ₂ -induced vascular smooth muscle cell differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 163-168.	1.0	14
69	Identification and physiological activity of survival factor released from cardiomyocytes during ischaemia and reperfusion. <i>Cardiovascular Research</i> , 2008, 79, 589-599.	1.8	14
70	Stage-dependent benefits and risks of pimobendan in mice with genetic dilated cardiomyopathy and progressive heart failure. <i>British Journal of Pharmacology</i> , 2015, 172, 2369-2382.	2.7	14
71	HE4 Predicts Progressive Fibrosis and Cardiovascular Events in Patients With Dilated Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2021, 10, e021069.	1.6	14
72	Effects of Troponin T Mutations in Familial Hypertrophic Cardiomyopathy on Regulatory Functions of Other Troponin Subunits. <i>Journal of Biochemistry</i> , 2001, 130, 127-131.	0.9	13

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73	Troponin I inhibitory peptide suppresses the force generation in smooth muscle by directly interfering with cross-bridge formation. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 236-240.	1.0	13
74	Celecoxib induces apoptosis by inhibiting the expression of survivin in HeLa cells. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 1166-1171.	1.0	13
75	Effects of Candesartan on Electrical Remodeling in the Hearts of Inherited Dilated Cardiomyopathy Model Mice. <i>PLoS ONE</i> , 2014, 9, e101838.	1.1	13
76	Cardiotonic actions of quercetin and its metabolite tamarixetin through a digitalis-like enhancement of Ca ²⁺ transients. <i>Archives of Biochemistry and Biophysics</i> , 2018, 637, 40-47.	1.4	13
77	Usefulness of Running Wheel for Detection of Congestive Heart Failure in Dilated Cardiomyopathy Mouse Model. <i>PLoS ONE</i> , 2013, 8, e55514.	1.1	13
78	Tissue thrombin is associated with the pathogenesis of dilated cardiomyopathy. <i>International Journal of Cardiology</i> , 2017, 228, 821-827.	0.8	12
79	Î²-Arrestin-1 Biased AT1 Agonist TRV027 Causes a Neonatal-Specific Sustained Positive Inotropic Effect Without Increasing Heart Rate. <i>JACC Basic To Translational Science</i> , 2020, 5, 1057-1069.	1.9	12
80	A pH-Sensitive Interaction of Troponin I with Troponin C Coupled with Strongly Binding Cross-Bridges in Cardiac Myofilament Activation. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 811-815.	1.0	11
81	The effect of Mg ²⁺ on the Ca ²⁺ binding to troponin C in rabbit fast skeletal myofibrils. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 336-340.	1.1	10
82	Molecular Pathogenic Mechanisms of Cardiomyopathies Caused by Mutations in Cardiac Troponin T. , 2007, 592, 227-239.		10
83	Role of brain serotonin dysfunction in the pathophysiology of congestive heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 760-767.	0.9	10
84	Synthetic Peptides of Actin-Tropomyosin Binding Region of Troponin I and Heat Shock Protein 20 Modulate the Relaxation Process of Skinned Preparations of Taenia Caeci from Guinea Pig. <i>The Japanese Journal of Physiology</i> , 2005, 55, 373-378.	0.9	10
85	Overexpression of heart-specific small subunit of myosin light chain phosphatase results in heart failure and conduction disturbance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1192-H1202.	1.5	9
86	Experimental models of inherited cardiomyopathy and its therapeutics. <i>World Journal of Cardiology</i> , 2014, 6, 1245.	0.5	9
87	Ca ²⁺ Binding to Skeletal Muscle Troponin C in Skeletal and Cardiac Myofibrils ¹ . <i>Journal of Biochemistry</i> , 1989, 105, 435-439.	0.9	8
88	SCH00013, a Novel Ca ²⁺ Sensitizer With Positive Inotropic and No Chronotropic Action in Heart Failure. <i>Journal of Pharmacological Sciences</i> , 2005, 97, 53-60.	1.1	8
89	Propyl Gallate, a Strong Antioxidant, Increases the Ca ²⁺ Sensitivity of Cardiac Myofilament. <i>Journal of Pharmacological Sciences</i> , 2009, 109, 456-458.	1.1	8
90	GSK-3Î² heterozygous knockout is cardioprotective in a knockin mouse model of familial dilated cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1808-H1815.	1.5	8

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91	PKC412 induces apoptosis through a caspase-dependent mechanism in human keloid-derived fibroblasts. <i>European Journal of Pharmacology</i> , 2004, 497, 155-160.	1.7	7
92	In vivo effects of propyl gallate, a novel Ca ²⁺ sensitizer, in a mouse model of dilated cardiomyopathy caused by cardiac troponin T mutation. <i>Life Sciences</i> , 2014, 109, 15-19.	2.0	7
93	NRSF- <i>GNAO1</i> Pathway Contributes to the Regulation of Cardiac Ca ²⁺ Homeostasis. <i>Circulation Research</i> , 2022, 130, 234-248.	2.0	6
94	Expanded Spectrum of Gene Causing Both Hypertrophic Cardiomyopathy and Dilated Cardiomyopathy. <i>Circulation Research</i> , 2009, 105, 313-315.	2.0	4
95	Cardiomyopathies: Classification, Clinical Characterization, and Functional Phenotypes. <i>Biochemistry Research International</i> , 2012, 2012, 1-2.	1.5	4
96	Connexin45 contributes to global cardiovascular development by establishing myocardial impulse propagation. <i>Mechanisms of Development</i> , 2016, 140, 41-52.	1.7	4
97	Editorial: Recent Advances on Myocardium Physiology. <i>Frontiers in Physiology</i> , 2021, 12, 697852.	1.3	4
98	β ₁ -Adrenergic Receptor Gene Polymorphisms and the Acute Response to Atenolol in Healthy Young Japanese Subjects. <i>Journal of Pharmacological Sciences</i> , 2011, 115, 490-499.	1.1	3
99	Homogeneous 2D and 3D alignment of cardiomyocyte in dilated cardiomyopathy revealed by intravital heart imaging. <i>Scientific Reports</i> , 2021, 11, 14698.	1.6	3
100	Several Aspects of Calcium Regulator Mechanisms Linked to Troponin. <i>Advances in Experimental Medicine and Biology</i> , 2003, 538, 221-229.	0.8	3
101	Cardiac vagal control in a knock-in mouse model of dilated cardiomyopathy with a troponin mutation. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017, 205, 33-40.	1.4	2
102	Structural Proteins Troponin. , 2021, , 695-700.		2
103	Differential effects of the formin inhibitor SMIFH2 on contractility and Ca ²⁺ handling in frog and mouse cardiomyocytes. <i>Genes To Cells</i> , 2021, 26, 583-595.	0.5	2
104	Troponin T amino acid mutation (K210) knock-in mice as a neonatal dilated cardiomyopathy model. <i>Pediatric Research</i> , 2021, 89, 846-857.	1.1	1
105	Role of protein kinase C in thin filament activation by rigor-like cross-bridges under ischemic conditions. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 350-351.	0.9	0
106	Cardiac AT 1 Receptor/β ₂ -Arrestin Pathway is a Neonatal-Specific Druggable Target for Pediatric Heart Failure. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
107	ARRHYTHMOGENIC ACTIVITY IN LEFT VENTRICLES OF DILATED CARDIOMYOPATHY (DCM) MODEL MICE. <i>Juntendo, Igaku</i> , 2012, 58, 44-48.	0.1	0
108	The Effects of Voluntary and Forced Exercises on DCM Model Mice. <i>Juntendo Medical Journal</i> , 2018, 64, 52-52.	0.1	0