

Ken Shinmura

List of Publications by Year in descending order

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94
papers

4,528
citations

126907

33
h-index

102487

66
g-index

98
all docs

98
docs citations

98
times ranked

6061
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal dynamics of cardiac immune cell accumulation following acute myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 62, 24-35.	1.9	447
2	Inhalation of hydrogen gas reduces infarct size in the rat model of myocardial ischemia/reperfusion injury. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 30-35.	2.1	426
3	Discovery of a new function of cyclooxygenase (COX)-2: COX-2 is a cardioprotective protein that alleviates ischemia/reperfusion injury and mediates the late phase of preconditioning. <i>Cardiovascular Research</i> , 2002, 55, 506-519.	3.8	220
4	Obesity accelerates T cell senescence in murine visceral adipose tissue. <i>Journal of Clinical Investigation</i> , 2016, 126, 4626-4639.	8.2	207
5	Cardioprotective Effects of Short-Term Caloric Restriction Are Mediated by Adiponectin via Activation of AMP-Activated Protein Kinase. <i>Circulation</i> , 2007, 116, 2809-2817.	1.6	169
6	Inducible Nitric Oxide Synthase Modulates Cyclooxygenase-2 Activity in the Heart of Conscious Rabbits During the Late Phase of Ischemic Preconditioning. <i>Circulation Research</i> , 2002, 90, 602-608.	4.5	150
7	Impact of long-term caloric restriction on cardiac senescence: Caloric restriction ameliorates cardiac diastolic dysfunction associated with aging. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 117-127.	1.9	150
8	Adventitial CXCL1/G-CSF Expression in Response to Acute Aortic Dissection Triggers Local Neutrophil Recruitment and Activation Leading to Aortic Rupture. <i>Circulation Research</i> , 2015, 116, 612-623.	4.5	150
9	Metabolic Remodeling Induced by Mitochondrial Aldehyde Stress Stimulates Tolerance to Oxidative Stress in the Heart. <i>Circulation Research</i> , 2009, 105, 1118-1127.	4.5	129
10	4-Hydroxy-2-nonenal protects against cardiac ischemia/reperfusion injury via the Nrf2-dependent pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 576-586.	1.9	128
11	Deleterious Effect of the IL-23/IL-17A Axis and T _H 17 Cells on Left Ventricular Remodeling After Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2012, 1, e004408.	3.7	127
12	Aldose Reductase Is an Obligatory Mediator of the Late Phase of Ischemic Preconditioning. <i>Circulation Research</i> , 2002, 91, 240-246.	4.5	120
13	Impact of 6-mo caloric restriction on myocardial ischemic tolerance: possible involvement of nitric oxide-dependent increase in nuclear Sirt1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2348-H2355.	3.2	114
14	Changes in Ischemic Tolerance and Effects of Ischemic Preconditioning in Middle-aged Rat Hearts. <i>Circulation</i> , 1997, 95, 2559-2566.	1.6	103
15	Glucocorticoid protects rodent hearts from ischemia/reperfusion injury by activating lipocalin-type prostaglandin D synthase-derived PGD ₂ biosynthesis. <i>Journal of Clinical Investigation</i> , 2009, 119, 1477-1488.	8.2	99
16	Evidence for an essential role of cyclooxygenase-2 as a mediator of the late phase of ischemic preconditioning in mice. <i>Basic Research in Cardiology</i> , 2000, 95, 479-484.	5.9	94
17	Short-term caloric restriction improves ischemic tolerance independent of opening of ATP-sensitive K channels in both young and aged hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2005, 39, 285-296.	1.9	94
18	Caloric Restriction Primes Mitochondria for Ischemic Stress by Deacetylating Specific Mitochondrial Proteins of the Electron Transport Chain. <i>Circulation Research</i> , 2011, 109, 396-406.	4.5	83

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19	Endogenous Prostaglandin D ₂ and Its Metabolites Protect the Heart Against Ischemia-Induced Reperfusion Injury by Activating Nrf2. <i>Hypertension</i> , 2014, 63, 80-87.	2.7	79
20	Decrease in Ischemic Tolerance with Aging in Isolated Perfused Fischer 344 Rat Hearts: Relation to Increases in Intracellular Na ⁺ After Ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 3081-3089.	1.9	61
21	Dietary Lactoferrin Alleviates Age-Related Lacrimal Gland Dysfunction in Mice. <i>PLoS ONE</i> , 2012, 7, e33148.	2.5	52
22	Effects of Caloric Restriction on Cardiac Oxidative Stress and Mitochondrial Bioenergetics: Potential Role of Cardiac Sirtuins. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-11.	4.0	52
23	Prostacyclin attenuates oxidative damage of myocytes by opening mitochondrial ATP-sensitive K ⁺ channels via the EP3 receptor. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H2093-H2101.	3.2	51
24	Gene Transfer of Inducible Nitric Oxide Synthase Affords Cardioprotection by Upregulating Heme Oxygenase-1 Via a Nuclear Factor- κ B-Dependent Pathway. <i>Circulation</i> , 2009, 120, 1222-1230.	1.6	50
25	Cardiac Senescence, Heart Failure, and Frailty: A Triangle in Elderly People. <i>Keio Journal of Medicine</i> , 2016, 65, 25-32.	1.1	48
26	Calorie restriction: A new therapeutic intervention for age-related dry eye disease in rats. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 724-728.	2.1	47
27	COX-2-derived prostacyclin mediates opioid-induced late phase of preconditioning in isolated rat hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2534-H2543.	3.2	45
28	μ -Opioid receptor-induced late preconditioning is mediated by cyclooxygenase-2 in conscious rabbits. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H1943-H1957.	3.2	45
29	Physical activity combined with resistance training reduces symptoms of frailty in older adults: A randomized controlled trial. <i>Archives of Gerontology and Geriatrics</i> , 2018, 76, 41-47.	3.0	45
30	Hyperhomocysteinemia abrogates fasting-induced cardioprotection against ischemia/reperfusion by limiting bioavailability of hydrogen sulfide anions. <i>Journal of Molecular Medicine</i> , 2015, 93, 879-889.	3.9	42
31	Physical frailty predicts the development of social frailty: a prospective cohort study. <i>BMC Geriatrics</i> , 2020, 20, 403.	2.7	42
32	Role of Cyclic Guanosine Monophosphate in Late Preconditioning in Conscious Rabbits. <i>Circulation</i> , 2002, 105, 3046-3052.	1.6	39
33	Activation of pyruvate dehydrogenase by dichloroacetate has the potential to induce epigenetic remodeling in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 82, 116-124.	1.9	37
34	Effect of aspirin on late preconditioning against myocardial stunning in conscious rabbits. <i>Journal of the American College of Cardiology</i> , 2003, 41, 1183-1194.	2.8	36
35	The Antiaging Approach for the Treatment of Dry Eye. <i>Cornea</i> , 2012, 31, S3-S8.	1.7	34
36	Loss of ischaemic preconditioning in ovariectomized rat hearts: possible involvement of impaired protein kinase C α phosphorylation. <i>Cardiovascular Research</i> , 2008, 79, 387-394.	3.8	33

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37	Isotemporal substitution of sedentary time with physical activity and its associations with frailty status. <i>Clinical Interventions in Aging</i> , 2018, Volume 13, 1831-1836.	2.9	33
38	Gender and aging do not impair opioid-induced late preconditioning in rats. <i>Basic Research in Cardiology</i> , 2004, 99, 46-55.	5.9	30
39	Lightâ€™dark condition regulates sirtuin mRNA levels in the retina. <i>Experimental Gerontology</i> , 2013, 48, 1212-1217.	2.8	30
40	Cyclooxygenase-2 does not mediate late preconditioning induced by activation of adenosine A ₁ or A ₃ receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H959-H968.	3.2	29
41	Calorie restriction (CR) and CR mimetics for the prevention and treatment of age-related eye disorders. <i>Experimental Gerontology</i> , 2013, 48, 1096-1100.	2.8	29
42	Indispensable role of endothelial nitric oxide synthase in caloric restriction-induced cardioprotection against ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H894-H903.	3.2	29
43	Loss of protection by hypoxic preconditioning in aging Fischer 344 rat hearts related to myocardial glycogen content and Na ⁺ imbalance. <i>Cardiovascular Research</i> , 1999, 41, 594-602.	3.8	28
44	Cardiovascular protection afforded by caloric restriction: Essential role of nitric oxide synthase. <i>Geriatrics and Gerontology International</i> , 2011, 11, 143-156.	1.5	28
45	Cardiac Sirt1 mediates the cardioprotective effect of caloric restriction by suppressing local complement system activation after ischemia-reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1003-H1014.	3.2	28
46	The Relationship between Dietary Habits and Frailty in Rural Japanese Community-Dwelling Older Adults: Cross-Sectional Observation Study Using a Brief Self-Administered Dietary History Questionnaire. <i>Nutrients</i> , 2018, 10, 1982.	4.1	28
47	Lung Natural Killer Cells Play a Major Counter-Regulatory Role in Pulmonary Vascular Hyperpermeability After Myocardial Infarction. <i>Circulation Research</i> , 2014, 114, 637-649.	4.5	24
48	Relationship between oral environment and frailty among older adults dwelling in a rural Japanese community: a cross-sectional observational study. <i>BMC Oral Health</i> , 2019, 19, 23.	2.3	24
49	Biphasic Time Course of the Changes in Aldosterone Biosynthesis Under High-Salt Conditions in Dahl Salt-Sensitive Rats. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1194-1203.	2.4	23
50	Decrease in membrane phospholipids unsaturation correlates with myocardial diastolic dysfunction. <i>PLoS ONE</i> , 2018, 13, e0208396.	2.5	22
51	Relationships between cystatin C- and creatinine-based eGFR in Japanese rural community- dwelling older adults with sarcopenia. <i>Clinical and Experimental Nephrology</i> , 2021, 25, 231-239.	1.6	22
52	Is adiponectin a bystander or a mediator in heart failure? The tangled thread of a good-natured adipokine in aging and cardiovascular disease. <i>Heart Failure Reviews</i> , 2010, 15, 457-466.	3.9	21
53	The Era of Antiaging Ophthalmology Comes of Age: Antiaging Approach for Dry Eye Treatment. <i>Ophthalmic Research</i> , 2010, 44, 146-154.	1.9	19
54	Palmitate induces cardiomyocyte death via inositol requiring enzyme-1 (IRE1)-mediated signaling independent of X-box binding protein 1 (XBP1). <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 122-127.	2.1	18

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55	Neural crest-derived resident cardiac cells contribute to the restoration of adrenergic function of transplanted heart in rodent. <i>Cardiovascular Research</i> , 2016, 109, 350-357.	3.8	16
56	Post-Translational Modification of Mitochondrial Proteins by Caloric Restriction: Possible Involvement in Caloric Restriction-Induced Cardioprotection. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 18-25.	4.9	14
57	Effect of E4031, a Class III Antiarrhythmic Drug, on Ischemia- and Reperfusion-induced Arrhythmias in Isolated Rat Hearts.. <i>International Heart Journal</i> , 1998, 39, 183-197.	0.6	13
58	Does Oral Hypofunction Promote Social Withdrawal in the Older Adults? A Longitudinal Survey of Elderly Subjects in Rural Japan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8904.	2.6	13
59	Association between Physical Frailty Subdomains and Oral Frailty in Community-Dwelling Older Adults. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2931.	2.6	13
60	Sirt1 counteracts decrease in membrane phospholipid unsaturation and diastolic dysfunction during saturated fatty acid overload. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 133, 1-11.	1.9	12
61	Estimation of Muscle Mass Using Creatinine/Cystatin C Ratio in Japanese Community-Dwelling Older People. <i>Journal of the American Medical Directors Association</i> , 2022, 23, 902.e21-902.e31.	2.5	12
62	Is a History of Falling Related to Oral Function? A Cross-Sectional Survey of Elderly Subjects in Rural Japan. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3843.	2.6	11
63	Low back pain is closely associated with frailty but not with sarcopenia: Cross-sectional study of rural Japanese community-dwelling older adults. <i>Geriatrics and Gerontology International</i> , 2021, 21, 54-59.	1.5	10
64	Effect of Methyloisobutyl Amiloride on [Na ⁺] _i , Reperfusion Arrhythmias, and Function in Ischemic Rat Hearts. <i>Journal of Cardiovascular Pharmacology</i> , 1996, 27, 794-801.	1.9	10
65	The Association of Dietary Intake, Oral Health, and Blood Pressure in Older Adults: A Cross-Sectional Observational Study. <i>Nutrients</i> , 2022, 14, 1279.	4.1	10
66	The effect of caloric restriction on the increase in senescence-associated T cells and metabolic disorders in aged mice. <i>PLoS ONE</i> , 2021, 16, e0252547.	2.5	9
67	Circadian hemodynamic characteristics in hypertensive patients with primary aldosteronism. <i>Journal of Hypertension</i> , 2018, 36, 2260-2268.	0.5	6
68	Association Between Circadian Hemodynamic Characteristics and Target Organ Damage in Patients With Essential Hypertension. <i>American Journal of Hypertension</i> , 2019, 32, 742-751.	2.0	6
69	Impact of Isotemporal Substitution of Sedentary Time With Physical Activity on Sarcopenia in Older Japanese Adults. <i>Journal of the American Medical Directors Association</i> , 2021, 22, 876-878.	2.5	6
70	The relationship between bone density and the oral function in older adults: a cross-sectional observational study. <i>BMC Geriatrics</i> , 2021, 21, 591.	2.7	6
71	Low Concentrations of Adenosine Receptor Blocker Decrease Protection by Hypoxic Preconditioning in Ischemic Rat Hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 1998, 30, 617-626.	1.9	5
72	Catheter-Delivered In Vivo Gene Transfer into Rat Myocardium Using the Fusogenic Liposomal Mediated Method.. <i>International Heart Journal</i> , 2000, 41, 633-647.	0.6	5

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73	Effects of β_1 -Adrenoreceptor Subtype Blockade on Ischemia-Reperfusion Injury. Japanese Circulation Journal, 1997, 61, 927-935.	1.0	4
74	Prevalence of anti-cyclic citrullinated peptide antibodies in patients with spondyloarthritis: A retrospective study. Modern Rheumatology, 2021, 31, 458-461.	1.8	4
75	Associations Between Arterial Stiffness Indices and Chronic Kidney Disease Categories in Essential Hypertensive Patients. American Journal of Hypertension, 2021, 34, 484-493.	2.0	4
76	Effect of Stepwise Normalization of Perfusate pH on Post-Ischemic Functional Recovery and Ca^{2+} Overload in Isolated Rat Hearts. Japanese Circulation Journal, 1996, 60, 683-690.	1.0	3
77	Myocardial Uptake of Iodine-125-labeled 15-(P-Iodophenyl)-3-(R,S)-Methyl Pentadecanoic Acid is Decreased in Chronic Diabetic Rats With Changes in Subcellular Distribution. Japanese Circulation Journal, 1998, 62, 364-370.	1.0	2
78	Severe Apathy as a Risk Factor for Falls in Older Adults With Frailty Symptoms. Journal of the American Medical Directors Association, 2019, 20, 1473-1475.	2.5	2
79	Relationship between Rate of Force Development of Tongue Pressure and Physical Performance. Journal of Clinical Medicine, 2022, 11, 2347.	2.4	2
80	Relationships between cystatin C and creatinine-based eGFR with low tongue pressure in Japanese rural community-dwelling older adults. Clinical and Experimental Dental Research, 0, , .	1.9	2
81	Attenuation of myocardial stunning by an increase in the H^+ buffering capacity of the perfusate and that by hypoxic preperfusion are affected differently by the free (Ca^{2+}) of the perfusate.. Japanese Circulation Journal, 1993, 57, 1173-1182.	1.0	1
82	Targeting sirtuins to modulate energy metabolism in heart disease. , 2021, , 285-293.		1
83	Saturated fatty acid-induced cardiomyopathy with diastolic dysfunction can be ameliorated by changing the quality of fatty acids to monounsaturated fatty acid. Archives of Medical Science, 2021, , .	0.9	1
84	Cardiac Senescence and Autophagy. , 2014, , 125-137.		1
85	Nutritional Interventions for Cardiovascular Aging and Age-Related Cardiovascular Diseases. Healthy Ageing and Longevity, 2015, , 179-209.	0.2	1
86	Abstract 11105: Obesity Accelerates T Cell Senescence in Visceral Adipose Tissue. Circulation, 2015, 132, .	1.6	1
87	Cyclooxygenase-2 in myocardial ischemia. Journal of the American College of Cardiology, 2003, 42, 1714-1715.	2.8	0
88	Dietary restriction in the epigenomic regulation of cardiovascular diseases. , 2019, , 269-287.		0
89	Basic survey for the prevention of intraoral residual medication in older adults: A pilot study. Gerodontology, 2020, 37, 93-96.	2.0	0
90	Possible mechanisms of cyclooxygenase (COX)-2 hazard: Is COX-2 in the cardiovascular system a friend or a foe?. Ensho Saisei, 2005, 25, 517-524.	0.2	0

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91	Adipokines as Novel Biomarkers in Aging and Heart Failure. , 2014, , 411-426.		0
92	Importance of stable HDL-cholesterol Levels During Medical Treatment in Patients With Hypercholesterolemia: Two-Year Prospective Study After Two-Year Pretreatment. The Journal of Japan Atherosclerosis Society, 1993, 21, 421-429.	0.0	0
93	Survey Regarding the Driving Status of Elderly Persons in a Rural Area Taking Drugs that Influence Driving. Iryo Yakugaku (Japanese Journal of Pharmaceutical Health Care and Sciences), 2020, 46, 205-210.	0.1	0
94	Abstract 207: Cytotoxic Effect of Palmitate is Caused by a Change in Membrane Fatty Acid Composition and ER Stress. Circulation Research, 2017, 121, .	4.5	0