Masao Kaneki

List of Publications by Year
in descending order

74 papers	4,438 citations	136885 32 h-index	106281 65 g-index
81 all docs	81 docs citations	81 times ranked	6336 citing authors

#	Article	IF	Citations
1	Translocation of SAPK/JNK to Mitochondria and Interaction with Bcl-xL in Response to DNA Damage. Journal of Biological Chemistry, 2000, 275, 322-327.	1.6	384
2	Sirt1 modulates premature senescence-like phenotype in human endothelial cells. Journal of Molecular and Cellular Cardiology, 2007, 43, 571-579.	0.9	384
3	Japanese fermented soybean food as the major determinant of the large geographic difference in circulating levels of vitamin K2. Nutrition, 2001, 17, 315-321.	1.1	225
4	S-Nitrosylation-dependent Inactivation of Akt/Protein Kinase B in Insulin Resistance. Journal of Biological Chemistry, 2005, 280, 7511-7518.	1.6	216
5	Association of Bone Mineral Density with Apolipoprotein E Phenotype. Journal of Bone and Mineral Research, 1997, 12, 1438-1445.	3.1	177
6	A Role for iNOS in Fasting Hyperglycemia and Impaired Insulin Signaling in the Liver of Obese Diabetic Mice. Diabetes, 2005, 54, 1340-1348.	0.3	172
7	Inhaled Hydrogen Sulfide Prevents Neurodegeneration and Movement Disorder in a Mouse Model of Parkinson's Disease. Antioxidants and Redox Signaling, 2011, 15, 343-352.	2.5	149
8	Effect of Cholecalciferol Supplementation on Vitamin D Status and Cathelicidin Levels in Sepsis. Critical Care Medicine, 2015, 43, 1928-1937.	0.4	135
9	Comparison of Comet Assay, Electron Microscopy, and Flow Cytometry for Detection of Apoptosis. Journal of Histochemistry and Cytochemistry, 2003, 51, 873-885.	1.3	128
10	Nitrosative Stress and Pathogenesis of Insulin Resistance. Antioxidants and Redox Signaling, 2007, 9, 319-329.	2.5	122
11	Activation of p38 Mitogen-activated Protein Kinase by c-Abl-dependent and -independent Mechanisms. Journal of Biological Chemistry, 1996, 271, 23775-23779.	1.6	120
12	Primary Role of Functional Ischemia, Quantitative Evidence for the Two-Hit Mechanism, and Phosphodiesterase-5 Inhibitor Therapy in Mouse Muscular Dystrophy. PLoS ONE, 2007, 2, e806.	1.1	114
13	Inflammatory stimuli induce inhibitory S-nitrosylation of the deacetylase SIRT1 to increase acetylation and activation of p53 and p65. Science Signaling, 2014, 7, ra106.	1.6	111
14	Battery of behavioral tests in mice to study postoperative delirium. Scientific Reports, 2016, 6, 29874.	1.6	103
15	Inducible Nitric-oxide Synthase and NO Donor Induce Insulin Receptor Substrate-1 Degradation in Skeletal Muscle Cells. Journal of Biological Chemistry, 2005, 280, 14203-14211.	1.6	102
16	iNOS as a Driver of Inflammation and Apoptosis in Mouse Skeletal Muscle after Burn Injury: Possible Involvement of Sirt1 S-Nitrosylation-Mediated Acetylation of p65 NF-Î²B and p53. PLoS ONE, 2017, 12, e0170391.	1.1	95
17	Activation of MEK Kinase 1 by the c-Abl Protein Tyrosine Kinase in Response to DNA Damage. Molecular and Cellular Biology, 2000, 20, 4979-4989.	1.1	90
18	Cardiomyocyte-Specific Overexpression of Nitric Oxide Synthase 3 Prevents Myocardial Dysfunction in Murine Models of Septic Shock. Circulation Research, 2007, 100, 130-139.	2.0	90

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19	Skeletal muscle apoptosis after burns is associated with activation of proapoptotic signals. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E1114-E1121.	1.8	83
20	Thiosulfate Mediates Cytoprotective Effects of Hydrogen Sulfide Against Neuronal Ischemia. Journal of the American Heart Association, 2015, 4, .	1.6	72
21	Phorbol Ester-induced Generation of Reactive Oxygen Species Is Protein Kinase CÎ²-dependent and Required for SAPK Activation. Journal of Biological Chemistry, 2000, 275, 41000-41003.	1.6	67
22	Functional Role for Protein Kinase CÎ² as a Regulator of Stress-Activated Protein Kinase Activation and Monocytic Differentiation of Myeloid Leukemia Cells. Molecular and Cellular Biology, 1999, 19, 461-470.	1.1	66
23	Liver-specific Inducible Nitric-oxide Synthase Expression Is Sufficient to Cause Hepatic Insulin Resistance and Mild Hyperglycemia in Mice. Journal of Biological Chemistry, 2011, 286, 34959-34975.	1.6	61
24	Vitamin K2 modulates proliferation and function of osteoblastic cells in vitro. Biochemical and Biophysical Research Communications, 1992, 187, 814-820.	1.0	60
25	S-Nitrosylation of Calcium-Handling Proteins in Cardiac Adrenergic Signaling and Hypertrophy. Circulation Research, 2015, 117, 793-803.	2.0	60
26	Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. ELife, 2019, 8, .	2.8	58
27	Pleiotropic actions of vitamin K: protector of bone health and beyond?. Nutrition, 2006, 22, 845-852.	1.1	53
28	Gene disruption of caspase-3 prevents MPTP-induced Parkinsonâ€™s disease in mice. Biochemical and Biophysical Research Communications, 2010, 402, 312-318.	1.0	49
29	Microfluidic assay for precise measurements of mouse, rat, and human neutrophil chemotaxis in whole-blood droplets. Journal of Leukocyte Biology, 2016, 100, 241-247.	1.5	46
30	Lack of caspaseâ€3 attenuates immobilizationâ€induced muscle atrophy and loss of tension generation along with mitigation of apoptosis and inflammation. Muscle and Nerve, 2013, 47, 711-721.	1.0	44
31	Effect of parathyroid hormone on release of interleukin 1 and interleukin 6 from cultured mouse osteoblastic cells. Biochemical and Biophysical Research Communications, 1991, 179, 236-242.	1.0	37
32	Farnesyltransferase Inhibitor, Manumycin A, Prevents Atherosclerosis Development and Reduces Oxidative Stress in Apolipoprotein E-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1390-1395.	1.1	33
33	Farnesyltransferase inhibitor improved survival following endotoxin challenge in mice. Biochemical and Biophysical Research Communications, 2010, 391, 1459-1464.	1.0	32
34	Delayed Paraplegia After Spinal Cord Ischemic Injury Requires Caspase-3 Activation in Mice. Stroke, 2011, 42, 2302-2307.	1.0	31
35	Simvastatin Reduces Burn Injury-induced Splenic Apoptosis via Downregulation of the TNF-Î±/NF-ÎºB Pathway. Annals of Surgery, 2015, 261, 1006-1012.	2.1	31
36	Recombinant human thrombomodulin inhibits neutrophil extracellular trap formation in vitro. Journal of Intensive Care, 2016, 4, 48.	1.3	31

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37	Simvastatin treatment improves survival in a murine model of burn sepsis: Role of interleukin 6. Burns, 2011, 37, 222-226.	1.1	28
38	Increased Insulin Receptor Substrate 1 Serine Phosphorylation and Stress-Activated Protein Kinase/c-Jun N-Terminal Kinase Activation Associated With Vascular Insulin Resistance in Spontaneously Hypertensive Rats. Hypertension, 2004, 44, 484-489.	1.3	27
39	NO donor induces Nec-1-inhibitable, but RIP1-independent, necrotic cell death in pancreatic Î²-cells. FEBS Letters, 2011, 585, 3058-3064.	1.3	26
40	Immobilization with Atrophy Induces De Novo Expression of Neuronal Nicotinic Î±7 Acetylcholine Receptors in Muscle Contributing to Neurotransmission. Anesthesiology, 2014, 120, 76-85.	1.3	26
41	Voluntary Exercise Can Ameliorate Insulin Resistance by Reducing iNOS-Mediated S-Nitrosylation of Akt in the Liver in Obese Rats. PLoS ONE, 2015, 10, e0132029.	1.1	25
42	Coenzyme Q10 protects against burnâ€induced mitochondrial dysfunction and impaired insulin signaling in mouse skeletal muscle. FEBS Open Bio, 2019, 9, 348-363.	1.0	25
43	Nitric Oxide Inhibits the Proliferation and Invasion of Pancreatic Cancer Cells through Degradation of Insulin Receptor Substrate-1 Protein. Molecular Cancer Research, 2010, 8, 1152-1163.	1.5	24
44	Farnesyltransferase Inhibitor FTI-277 Reduces Mortality of Septic Mice along with Improved Bacterial Clearance. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 832-841.	1.3	24
45	Inducible Nitric-oxide Synthase and Nitric Oxide Donor Decrease Insulin Receptor Substrate-2 Protein Expression by Promoting Proteasome-dependent Degradation in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2011, 286, 29388-29396.	1.6	24
46	Nonsurgically induced disuse muscle atrophy and neuromuscular dysfunction upregulates alpha7 acetylcholine receptors. Canadian Journal of Physiology and Pharmacology, 2014, 92, 1-8.	0.7	23
47	Inducible nitric oxide synthase deficiency ameliorates skeletal muscle insulin resistance but does not alter unexpected lower blood glucose levels after burn injury in C57BL/6 mice. Metabolism: Clinical and Experimental, 2012, 61, 127-136.	1.5	22
48	Low-Dose Farnesyltransferase Inhibitor Suppresses HIF-1Î± and Snail Expression in Triple-Negative Breast Cancer MDA-MB-231 Cells In Vitro. Journal of Cellular Physiology, 2017, 232, 192-201.	2.0	22
49	Is normalized mean blood glucose level good enough for the intensive care unit?â€”Glycemic variability as a new independent predictor of mortality*. Critical Care Medicine, 2008, 36, 3104-3106.	0.4	21
50	Protective effects of a nicotinamide derivative, isonicotinamide, against streptozotocin-induced Î²-cell damage and diabetes in mice. Biochemical and Biophysical Research Communications, 2013, 442, 92-98.	1.0	20
51	Low-dose YC-1 combined with glucose and insulin selectively induces apoptosis in hypoxic gastric carcinoma cells by inhibiting anaerobic glycolysis. Scientific Reports, 2017, 7, 12653.	1.6	20
52	Burn-induced muscle metabolic derangements and mitochondrial dysfunction are associated with activation of HIF-1Î± and mTORC1: Role of protein farnesylation. Scientific Reports, 2017, 7, 6618.	1.6	19
53	Metabolic Inflammatory Complex in Sepsis: Septic Cachexia as a Novel Potential Therapeutic Target. Shock, 2017, 48, 600-609.	1.0	18
54	Role of Protein Farnesylation in Burn-Induced Metabolic Derangements and Insulin Resistance in Mouse Skeletal Muscle. PLoS ONE, 2015, 10, e0116633.	1.1	17

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55	Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. Science Advances, 2021, 7, .	4.7	17
56	Anesthesia with propofol induces insulin resistance systemically in skeletal and cardiac muscles and liver of rats. Biochemical and Biophysical Research Communications, 2013, 431, 81-85.	1.0	15
57	Breathing hydrogen sulfide prevents delayed paraplegia in mice. Free Radical Biology and Medicine, 2019, 131, 243-250.	1.3	15
58	Muscle Atrophy and the Sestrins. New England Journal of Medicine, 2020, 383, 1279-1282.	13.9	15
59	Myostatin deficiency not only prevents muscle wasting but also improves survival in septic mice. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E150-E159.	1.8	15
60	Anesthesia with Disuse Leads to Autophagy Up-regulation in the Skeletal Muscle. Anesthesiology, 2015, 122, 1075-1083.	1.3	14
61	Critical illness is associated with decreased plasma levels of coenzyme Q10: A cross-sectional study. Journal of Critical Care, 2013, 28, 571-576.	1.0	13
62	Suppressive Role of PPARÎ³-Regulated Endothelial Nitric Oxide Synthase in Adipocyte Lipolysis. PLoS ONE, 2015, 10, e0136597.	1.1	13
63	Simvastatin Protects Hepatocytes From Apoptosis by Suppressing the TNF-Î±/Caspase-3 Signaling Pathway in Mice With Burn Injury. Annals of Surgery, 2013, 257, 1129-1136.	2.1	11
64	Farnesyltransferase Inhibitor, Tipifarnib, Prevents Galactosamine/Lipopolysaccharide-Induced Acute Liver Failure. Shock, 2014, 42, 570-577.	1.0	10
65	Effect of simvastatin on burn-induced alterations in tissue specific glucose metabolism: implications for burn associated insulin resistance. International Journal of Molecular Medicine, 2010, 26, 311-6.	1.8	9
66	iNOS inhibitor, L-NIL, reverses burn-induced glycogen synthase kinase-3Î² activation in skeletal muscle of rats. Metabolism: Clinical and Experimental, 2013, 62, 341-346.	1.5	8
67	Could insulin sensitization be used as an alternative to intensive insulin therapy to improve the survival of intensive care unit patients with stress-induced hyperglycemia?*. Critical Care Medicine, 2009, 37, 2856-2858.	0.4	5
68	Protective effects of farnesyltransferase inhibitor on sepsis-induced morphological aberrations of mitochondria in muscle and increased circulating mitochondrial DNA levels in mice. Biochemical and Biophysical Research Communications, 2021, 556, 93-98.	1.0	5
69	iNOS inhibits hair regeneration in obese diabetic (ob/ob) mice. Biochemical and Biophysical Research Communications, 2018, 501, 893-897.	1.0	4
70	Farnesyltransferase inhibitors prevent HIV protease inhibitor (lopinavir/ritonavir)-induced lipodystrophy and metabolic syndrome in mice. Experimental and Therapeutic Medicine, 2017, 15, 1314-1320.	0.8	1
71	What's New in SHOCK October 2017?. Shock, 2017, 48, 387-389.	1.0	0
72	Translocation of Pro-Apoptotic Molecules, Bad and SAPK, to Mitochondria Precedes Burn Injury-Induced Skeletal Muscle DNA Fragmentation in Rats. Anesthesiology, 2002, 96, A370.	1.3	0

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73	Apoptosis May Be a Mechanism for Loss of Muscle Mass during Immobilization. Anesthesiology, 2002, 96, A412.	1.3	0
74	Septic cardiomyopathy is improved by enhancing cardiomyocyte denitrosylation capacity. FASEB Journal, 2013, 27, 921.8.	0.2	0