

# Masao Kaneki

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Myostatin deficiency not only prevents muscle wasting but also improves survival in septic mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 320, E150-E159.	1.8	15
2	Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. <i>Science Advances</i> , 2021, 7, .	4.7	17
3	Protective effects of farnesyltransferase inhibitor on sepsis-induced morphological aberrations of mitochondria in muscle and increased circulating mitochondrial DNA levels in mice. <i>Biochemical and Biophysical Research Communications</i> , 2021, 556, 93-98.	1.0	5
4	Muscle Atrophy and the Sestrins. <i>New England Journal of Medicine</i> , 2020, 383, 1279-1282.	13.9	15
5	Coenzyme Q10 protects against burn-induced mitochondrial dysfunction and impaired insulin signaling in mouse skeletal muscle. <i>FEBS Open Bio</i> , 2019, 9, 348-363.	1.0	25
6	Breathing hydrogen sulfide prevents delayed paraplegia in mice. <i>Free Radical Biology and Medicine</i> , 2019, 131, 243-250.	1.3	15
7	Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. <i>ELife</i> , 2019, 8, .	2.8	58
8	iNOS inhibits hair regeneration in obese diabetic (ob/ob) mice. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 893-897.	1.0	4
9	Low-Dose Farnesyltransferase Inhibitor Suppresses HIF-1 $\alpha$ and Snail Expression in Triple-Negative Breast Cancer MDA-MB-231 Cells In Vitro. <i>Journal of Cellular Physiology</i> , 2017, 232, 192-201.	2.0	22
10	Metabolic Inflammatory Complex in Sepsis: Septic Cachexia as a Novel Potential Therapeutic Target. <i>Shock</i> , 2017, 48, 600-609.	1.0	18
11	Low-dose YC-1 combined with glucose and insulin selectively induces apoptosis in hypoxic gastric carcinoma cells by inhibiting anaerobic glycolysis. <i>Scientific Reports</i> , 2017, 7, 12653.	1.6	20
12	What's New in SHOCK October 2017?. <i>Shock</i> , 2017, 48, 387-389.	1.0	0
13	Burn-induced muscle metabolic derangements and mitochondrial dysfunction are associated with activation of HIF-1 $\alpha$ and mTORC1: Role of protein farnesylation. <i>Scientific Reports</i> , 2017, 7, 6618.	1.6	19
14	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- $\kappa$ B and p53. <i>PLoS ONE</i> , 2017, 12, e0170391.	1.1	95
15	Farnesyltransferase inhibitors prevent HIV protease inhibitor (lopinavir/ritonavir)-induced lipodystrophy and metabolic syndrome in mice. <i>Experimental and Therapeutic Medicine</i> , 2017, 15, 1314-1320.	0.8	1
16	Battery of behavioral tests in mice to study postoperative delirium. <i>Scientific Reports</i> , 2016, 6, 29874.	1.6	103
17	Recombinant human thrombomodulin inhibits neutrophil extracellular trap formation in vitro. <i>Journal of Intensive Care</i> , 2016, 4, 48.	1.3	31
18	Microfluidic assay for precise measurements of mouse, rat, and human neutrophil chemotaxis in whole-blood droplets. <i>Journal of Leukocyte Biology</i> , 2016, 100, 241-247.	1.5	46

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19	Effect of Cholecalciferol Supplementation on Vitamin D Status and Cathelicidin Levels in Sepsis. <i>Critical Care Medicine</i> , 2015, 43, 1928-1937.	0.4	135
20	Anesthesia with Disuse Leads to Autophagy Up-regulation in the Skeletal Muscle. <i>Anesthesiology</i> , 2015, 122, 1075-1083.	1.3	14
21	Simvastatin Reduces Burn Injury-induced Splenic Apoptosis via Downregulation of the TNF- $\alpha$ /NF- $\kappa$ B Pathway. <i>Annals of Surgery</i> , 2015, 261, 1006-1012.	2.1	31
22	Thiosulfate Mediates Cytoprotective Effects of Hydrogen Sulfide Against Neuronal Ischemia. <i>Journal of the American Heart Association</i> , 2015, 4, .	1.6	72
23	Role of Protein Farnesylation in Burn-Induced Metabolic Derangements and Insulin Resistance in Mouse Skeletal Muscle. <i>PLoS ONE</i> , 2015, 10, e0116633.	1.1	17
24	Voluntary Exercise Can Ameliorate Insulin Resistance by Reducing iNOS-Mediated S-Nitrosylation of Akt in the Liver in Obese Rats. <i>PLoS ONE</i> , 2015, 10, e0132029.	1.1	25
25	Suppressive Role of PPAR $\gamma$ -Regulated Endothelial Nitric Oxide Synthase in Adipocyte Lipolysis. <i>PLoS ONE</i> , 2015, 10, e0136597.	1.1	13
26	S-Nitrosylation of Calcium-Handling Proteins in Cardiac Adrenergic Signaling and Hypertrophy. <i>Circulation Research</i> , 2015, 117, 793-803.	2.0	60
27	Inflammatory stimuli induce inhibitory S-nitrosylation of the deacetylase SIRT1 to increase acetylation and activation of p53 and p65. <i>Science Signaling</i> , 2014, 7, ra106.	1.6	111
28	Farnesyltransferase Inhibitor, Tipifarnib, Prevents Galactosamine/Lipopolysaccharide-Induced Acute Liver Failure. <i>Shock</i> , 2014, 42, 570-577.	1.0	10
29	Nonsurgically induced disuse muscle atrophy and neuromuscular dysfunction upregulates alpha7 acetylcholine receptors. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014, 92, 1-8.	0.7	23
30	Immobilization with Atrophy Induces <i>De Novo</i> Expression of Neuronal Nicotinic $\alpha$ 7 Acetylcholine Receptors in Muscle Contributing to Neurotransmission. <i>Anesthesiology</i> , 2014, 120, 76-85.	1.3	26
31	Critical illness is associated with decreased plasma levels of coenzyme Q10: A cross-sectional study. <i>Journal of Critical Care</i> , 2013, 28, 571-576.	1.0	13
32	iNOS inhibitor, L-NIL, reverses burn-induced glycogen synthase kinase-3 $\beta$ activation in skeletal muscle of rats. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 341-346.	1.5	8
33	Lack of caspase-3 attenuates immobilization-induced muscle atrophy and loss of tension generation along with mitigation of apoptosis and inflammation. <i>Muscle and Nerve</i> , 2013, 47, 711-721.	1.0	44
34	Anesthesia with propofol induces insulin resistance systemically in skeletal and cardiac muscles and liver of rats. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 81-85.	1.0	15
35	Protective effects of a nicotinamide derivative, isonicotinamide, against streptozotocin-induced $\beta$ -cell damage and diabetes in mice. <i>Biochemical and Biophysical Research Communications</i> , 2013, 442, 92-98.	1.0	20
36	Simvastatin Protects Hepatocytes From Apoptosis by Suppressing the TNF- $\alpha$ /Caspase-3 Signaling Pathway in Mice With Burn Injury. <i>Annals of Surgery</i> , 2013, 257, 1129-1136.	2.1	11

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37	Septic cardiomyopathy is improved by enhancing cardiomyocyte denitrosylation capacity. <i>FASEB Journal</i> , 2013, 27, 921.8.	0.2	0
38	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. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 127-136.	1.5	22
39	Simvastatin treatment improves survival in a murine model of burn sepsis: Role of interleukin 6. <i>Burns</i> , 2011, 37, 222-226.	1.1	28
40	NO donor induces Nec-1-inhibitable, but RIP1-independent, necrotic cell death in pancreatic $\beta^2$ -cells. <i>FEBS Letters</i> , 2011, 585, 3058-3064.	1.3	26
41	Liver-specific Inducible Nitric-oxide Synthase Expression Is Sufficient to Cause Hepatic Insulin Resistance and Mild Hyperglycemia in Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 34959-34975.	1.6	61
42	Delayed Paraplegia After Spinal Cord Ischemic Injury Requires Caspase-3 Activation in Mice. <i>Stroke</i> , 2011, 42, 2302-2307.	1.0	31
43	Inhaled Hydrogen Sulfide Prevents Neurodegeneration and Movement Disorder in a Mouse Model of Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 343-352.	2.5	149
44	Farnesyltransferase Inhibitor FTI-277 Reduces Mortality of Septic Mice along with Improved Bacterial Clearance. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 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 $\beta^2$ -Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 29388-29396.	1.6	24
46	Nitric Oxide Inhibits the Proliferation and Invasion of Pancreatic Cancer Cells through Degradation of Insulin Receptor Substrate-1 Protein. <i>Molecular Cancer Research</i> , 2010, 8, 1152-1163.	1.5	24
47	Farnesyltransferase inhibitor improved survival following endotoxin challenge in mice. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 1459-1464.	1.0	32
48	Gene disruption of caspase-3 prevents MPTP-induced Parkinson's disease in mice. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 312-318.	1.0	49
49	Effect of simvastatin on burn-induced alterations in tissue specific glucose metabolism: implications for burn associated insulin resistance. <i>International Journal of Molecular Medicine</i> , 2010, 26, 311-6.	1.8	9
50	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?*. <i>Critical Care Medicine</i> , 2009, 37, 2856-2858.	0.4	5
51	Is normalized mean blood glucose level good enough for the intensive care unit? "Glycemic variability as a new independent predictor of mortality". <i>Critical Care Medicine</i> , 2008, 36, 3104-3106.	0.4	21
52	Farnesyltransferase Inhibitor, Manumycin A, Prevents Atherosclerosis Development and Reduces Oxidative Stress in Apolipoprotein E-Deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1390-1395.	1.1	33
53	Cardiomyocyte-Specific Overexpression of Nitric Oxide Synthase 3 Prevents Myocardial Dysfunction in Murine Models of Septic Shock. <i>Circulation Research</i> , 2007, 100, 130-139.	2.0	90
54	Sirt1 modulates premature senescence-like phenotype in human endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 43, 571-579.	0.9	384

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55	Nitrosative Stress and Pathogenesis of Insulin Resistance. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 319-329.	2.5	122
56	Primary Role of Functional Ischemia, Quantitative Evidence for the Two-Hit Mechanism, and Phosphodiesterase-5 Inhibitor Therapy in Mouse Muscular Dystrophy. <i>PLoS ONE</i> , 2007, 2, e806.	1.1	114
57	Pleiotropic actions of vitamin K: protector of bone health and beyond?. <i>Nutrition</i> , 2006, 22, 845-852.	1.1	53
58	Inducible Nitric-oxide Synthase and NO Donor Induce Insulin Receptor Substrate-1 Degradation in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 14203-14211.	1.6	102
59	A Role for iNOS in Fasting Hyperglycemia and Impaired Insulin Signaling in the Liver of Obese Diabetic Mice. <i>Diabetes</i> , 2005, 54, 1340-1348.	0.3	172
60	S-Nitrosylation-dependent Inactivation of Akt/Protein Kinase B in Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2005, 280, 7511-7518.	1.6	216
61	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. <i>Hypertension</i> , 2004, 44, 484-489.	1.3	27
62	Comparison of Comet Assay, Electron Microscopy, and Flow Cytometry for Detection of Apoptosis. <i>Journal of Histochemistry and Cytochemistry</i> , 2003, 51, 873-885.	1.3	128
63	Translocation of Pro-Apoptotic Molecules, Bad and SAPK, to Mitochondria Precedes Burn Injury-Induced Skeletal Muscle DNA Fragmentation in Rats. <i>Anesthesiology</i> , 2002, 96, A370.	1.3	0
64	Apoptosis May Be a Mechanism for Loss of Muscle Mass during Immobilization. <i>Anesthesiology</i> , 2002, 96, A412.	1.3	0
65	Japanese fermented soybean food as the major determinant of the large geographic difference in circulating levels of vitamin K2. <i>Nutrition</i> , 2001, 17, 315-321.	1.1	225
66	Skeletal muscle apoptosis after burns is associated with activation of proapoptotic signals. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E1114-E1121.	1.8	83
67	Phorbol Ester-induced Generation of Reactive Oxygen Species Is Protein Kinase C $\beta$ -dependent and Required for SAPK Activation. <i>Journal of Biological Chemistry</i> , 2000, 275, 41000-41003.	1.6	67
68	Activation of MEK Kinase 1 by the c-Abl Protein Tyrosine Kinase in Response to DNA Damage. <i>Molecular and Cellular Biology</i> , 2000, 20, 4979-4989.	1.1	90
69	Translocation of SAPK/JNK to Mitochondria and Interaction with Bcl-xL in Response to DNA Damage. <i>Journal of Biological Chemistry</i> , 2000, 275, 322-327.	1.6	384
70	Functional Role for Protein Kinase C $\beta$ as a Regulator of Stress-Activated Protein Kinase Activation and Monocytic Differentiation of Myeloid Leukemia Cells. <i>Molecular and Cellular Biology</i> , 1999, 19, 461-470.	1.1	66
71	Association of Bone Mineral Density with Apolipoprotein E Phenotype. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 1438-1445.	3.1	177
72	Activation of p38 Mitogen-activated Protein Kinase by c-Abl-dependent and -independent Mechanisms. <i>Journal of Biological Chemistry</i> , 1996, 271, 23775-23779.	1.6	120

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73	Vitamin K2 modulates proliferation and function of osteoblastic cells in vitro. Biochemical and Biophysical Research Communications, 1992, 187, 814-820.	1.0	60
74	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