

Akihito Ishigami

List of Publications by Year in descending order

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171
papers

5,173
citations

87843

38
h-index

118793

62
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184
all docs

184
docs citations

184
times ranked

4772
citing authors

#	ARTICLE	IF	CITATIONS
1	Senescence marker protein 30 functions as gluconolactonase in L-ascorbic acid biosynthesis, and its knockout mice are prone to scurvy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5723-5728.	3.3	231
2	Abnormal accumulation of citrullinated proteins catalyzed by peptidylarginine deiminase in hippocampal extracts from patients with Alzheimer's disease. Journal of Neuroscience Research, 2005, 80, 120-128.	1.3	215
3	Molecular Characterization of Peptidylarginine Deiminase in HL-60 Cells Induced by Retinoic Acid and 1 α ,25-Dihydroxyvitamin D ₃ . Journal of Biological Chemistry, 1999, 274, 27786-27792.	1.6	176
4	Senescence Marker Protein-30 Knockout Mouse Liver Is Highly Susceptible to Tumor Necrosis Factor- α - and Fas-Mediated Apoptosis. American Journal of Pathology, 2002, 161, 1273-1281.	1.9	156
5	Senescence Marker Protein-30 Protects Mice Lungs from Oxidative Stress, Aging, and Smoking. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 530-537.	2.5	148
6	Hydrogen-rich pure water prevents superoxide formation in brain slices of vitamin C-depleted SMP30/GNL knockout mice. Biochemical and Biophysical Research Communications, 2008, 375, 346-350.	1.0	134
7	cDNA cloning, gene organization and expression analysis of human peptidylarginine deiminase type I. Biochemical Journal, 2003, 370, 167-174.	1.7	131
8	Detection of Deiminated Proteins in Rat Skin: Probing with a Monospecific Antibody After Modification of Citrulline Residues. Journal of Investigative Dermatology, 1995, 105, 163-169.	0.3	129
9	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
10	Human peptidylarginine deiminase type II: molecular cloning, gene organization, and expression in human skin. Archives of Biochemistry and Biophysics, 2002, 407, 25-31.	1.4	102
11	SMP30 deficiency in mice causes an accumulation of neutral lipids and phospholipids in the liver and shortens the life span. Biochemical and Biophysical Research Communications, 2004, 315, 575-580.	1.0	97
12	Ascorbic acid enhances the expression of type 1 and type 4 collagen and SVCT2 in cultured human skin fibroblasts. Biochemical and Biophysical Research Communications, 2013, 430, 579-584.	1.0	78
13	Age-related difference of site-specific histone modifications in rat liver. Biogerontology, 2009, 10, 415-421.	2.0	75
14	SMP30 deficiency causes increased oxidative stress in brain. Mechanisms of Ageing and Development, 2006, 127, 451-457.	2.2	73
15	Protein deimination in the rat brain after kainate administration: citrulline-containing proteins as a novel marker of neurodegeneration. Neuroscience Letters, 2001, 299, 5-8.	1.0	66
16	Vitamin C depletion increases superoxide generation in brains of SMP30/GNL knockout mice. Biochemical and Biophysical Research Communications, 2008, 377, 291-296.	1.0	65
17	Accumulation of Citrullinated Proteins by Up-Regulated Peptidylarginine Deiminase 2 in Brains of Scrapie-Infected Mice. American Journal of Pathology, 2008, 173, 1129-1142.	1.9	63
18	Involvement of peptidylarginine deiminase-mediated post-translational citrullination in pathogenesis of sporadic Creutzfeldt-Jakob disease. Acta Neuropathologica, 2010, 119, 199-210.	3.9	60

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19	Increased and type II-specific expression of peptidylarginine deiminase in activated microglia but not hyperplastic astrocytes following kainic acid-evoked neurodegeneration in the rat brain. <i>Neuroscience Letters</i> , 2002, 326, 129-132.	1.0	57
20	Elevated levels of 4-hydroxynonenal-histidine Michael adduct in the hippocampi of patients with Alzheimer's disease. <i>Biomedical Research</i> , 2009, 30, 227-233.	0.3	56
21	Mass spectrometric identification of citrullination sites and immunohistochemical detection of citrullinated glial fibrillary acidic protein in Alzheimer's disease brains. <i>Journal of Neuroscience Research</i> , 2015, 93, 1664-1674.	1.3	56
22	Vitamin C deficiency attenuates liver fibrosis by way of up-regulated peroxisome proliferator-activated receptor-gamma expression in senescence marker protein 30 knockout mice. <i>Hepatology</i> , 2010, 51, 1766-1777.	3.6	55
23	Senescence marker protein-30 knockout mouse as a novel murine model of senile lung. <i>Pathology International</i> , 2004, 54, 167-173.	0.6	54
24	Protective effect of pre- and post-vitamin C treatments on UVB-irradiation-induced skin damage. <i>Scientific Reports</i> , 2018, 8, 16199.	1.6	54
25	Vitamin C Prevents Cigarette Smoke-Induced Pulmonary Emphysema in Mice and Provides Pulmonary Restoration. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 347-357.	1.4	52
26	Neuroprotective and anti-inflammatory effects of morin in a murine model of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2016, 94, 865-878.	1.3	52
27	Modulation of gene expression of SMP-30 by LPS and calorie restriction during aging process. <i>Experimental Gerontology</i> , 2004, 39, 1169-1177.	1.2	50
28	Determination of Dehydroascorbic Acid in Mouse Tissues and Plasma by Using Tris(2-carboxyethyl)phosphine Hydrochloride as Reductant in Metaphosphoric Acid/Ethylenediaminetetraacetic Acid Solution. <i>Biological and Pharmaceutical Bulletin</i> , 2010, 33, 364-369.	0.6	50
29	Senescence marker protein-30 is a unique enzyme that hydrolyzes diisopropyl phosphorofluoridate in the liver. <i>FEBS Letters</i> , 2004, 570, 57-62.	1.3	49
30	Ascorbic acid depletion enhances expression of the sodium-dependent vitamin C transporters, SVCT1 and SVCT2, and uptake of ascorbic acid in livers of SMP30/GNL knockout mice. <i>Archives of Biochemistry and Biophysics</i> , 2010, 496, 38-44.	1.4	49
31	Peptidylarginine deiminase and protein citrullination in prion diseases. <i>Prion</i> , 2013, 7, 42-46.	0.9	48
32	A Significant Relationship between Plasma Vitamin C Concentration and Physical Performance among Japanese Elderly Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 295-301.	1.7	44
33	Importance of research on peptidylarginine deiminase and citrullinated proteins in age-related disease. <i>Geriatrics and Gerontology International</i> , 2010, 10, S53-8.	0.7	42
34	Effect of vitamin C depletion on age-related hearing loss in SMP30/GNL knockout mice. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 394-398.	1.0	40
35	Hepatic senescence marker protein-30 is involved in the progression of nonalcoholic fatty liver disease. <i>Journal of Gastroenterology</i> , 2010, 45, 426-434.	2.3	40
36	Pathophysiological significance of senescence marker protein-30. <i>Geriatrics and Gerontology International</i> , 2010, 10, S88-98.	0.7	39

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37	Complete lack of vitamin C intake generates pulmonary emphysema in senescence marker protein-30 knockout mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L784-L792.	1.3	39
38	Subcellular Localization of Peptidylarginine Deiminase 2 and Citrullinated Proteins in Brains of Scrapie-Infected Mice: Nuclear Localization of PAD2 and Membrane Fraction-Enriched Citrullinated Proteins. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2011, 70, 116-124.	0.9	39
39	Senescence marker protein-30/superoxide dismutase 1 double knockout mice exhibit increased oxidative stress and hepatic steatosis. <i>FEBS Open Bio</i> , 2014, 4, 522-532.	1.0	39
40	Over-expression of Senescence Marker Protein-30 Decreases Reactive Oxygen Species in Human Hepatic Carcinoma Hep G2 Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2009, 32, 1645-1648.	0.6	37
41	Peptidylarginine deiminase modulates the physiological roles of enolase via citrullination: links between altered multifunction of enolase and neurodegenerative diseases. <i>Biochemical Journal</i> , 2012, 445, 183-192.	1.7	37
42	A Selective NF- κ B Inhibitor, DHMEQ, Reduced Atherosclerosis in ApoE-deficient mice. <i>Journal of Atherosclerosis and Thrombosis</i> , 2006, 13, 308-313.	0.9	37
43	Molecular cloning of two novel types of peptidylarginine deiminase cDNAs from retinoic acid-treated culture of a newborn rat keratinocyte cell line. <i>FEBS Letters</i> , 1998, 433, 113-118.	1.3	36
44	Senescence marker protein-30 regulates Akt activity and contributes to cell survival in Hep G2 cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 386-390.	1.0	36
45	Vitamin C Is Not Essential for Carnitine Biosynthesis in Vivo: Verification in Vitamin C-Depleted Senescence Marker Protein-30/Gluconolactonase Knockout Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2008, 31, 1673-1679.	0.6	36
46	Effect of dietary restriction on the degradation of proteins in senescent mouse liver parenchymal cells in culture. <i>Archives of Biochemistry and Biophysics</i> , 1990, 283, 362-366.	1.4	35
47	Vitamin C deficiency causes muscle atrophy and a deterioration in physical performance. <i>Scientific Reports</i> , 2019, 9, 4702.	1.6	35
48	Age-related change in the degradation rate of ovalbumin microinjected into mouse liver parenchymal cells. <i>Archives of Biochemistry and Biophysics</i> , 1990, 277, 189-195.	1.4	34
49	Senescence Marker Protein-30/Gluconolactonase Deletion Worsens Glucose Tolerance through Impairment of Acute Insulin Secretion. <i>Endocrinology</i> , 2010, 151, 529-536.	1.4	34
50	High dietary intake of vitamin C suppresses age-related thymic atrophy and contributes to the maintenance of immune cells in vitamin C-deficient senescence marker protein-30 knockout mice. <i>British Journal of Nutrition</i> , 2015, 113, 603-609.	1.2	33
51	Significance of SMP30 in gerontology. <i>Geriatrics and Gerontology International</i> , 2007, 7, 316-325.	0.7	32
52	Developmental and age-related changes of peptidylarginine deiminase 2 in the mouse brain. <i>Journal of Neuroscience Research</i> , 2010, 88, 798-806.	1.3	32
53	Senescence Marker Protein-30 Knockout Mouse as an Aging Model. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 383-387.	1.8	31
54	Time course of vitamin C distribution and absorption after oral administration in SMP30/GNL knockout mice. <i>Nutrition</i> , 2011, 27, 471-478.	1.1	31

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55	Effect of vitamin C depletion on UVR-B induced cataract in SMP30/GNL knockout mice. <i>Experimental Eye Research</i> , 2012, 94, 85-89.	1.2	31
56	Hepatoprotective effect of Arazyme on CCl4-induced acute hepatic injury in SMP30 knock-out mice. <i>Toxicology</i> , 2008, 246, 132-142.	2.0	30
57	Antioxidant nutrients in plasma of Japanese patients with chronic obstructive pulmonary disease, asthma&COPD overlap syndrome and bronchial asthma. <i>Clinical Respiratory Journal</i> , 2017, 11, 915-924.	0.6	30
58	Inactivation kinetics of horseradish peroxidase microinjected into hepatocytes from mice of various ages. <i>Mechanisms of Ageing and Development</i> , 1988, 46, 125-133.	2.2	29
59	Nuclear Localization of Senescence Marker Protein-30, SMP30, in Cultured Mouse Hepatocytes and Its Similarity to RNA Polymerase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 158-160.	0.6	29
60	Exome sequencing of senescence-accelerated mice (SAM) reveals deleterious mutations in degenerative disease-causing genes. <i>BMC Genomics</i> , 2013, 14, 248.	1.2	29
61	<i>Myasthenia Gravis Experimentally Induced with Muscle–specific Kinase</i>. <i>Annals of the New York Academy of Sciences</i> , 2008, 1132, 93-98.	1.8	28
62	Ascorbic Acid Levels in Various Tissues, Plasma and Urine of Mice during Aging. <i>Journal of Nutritional Science and Vitaminology</i> , 2012, 58, 169-174.	0.2	28
63	Hydrogen-rich pure water prevents cigarette smoke-induced pulmonary emphysema in SMP30 knockout mice. <i>Biochemical and Biophysical Research Communications</i> , 2017, 492, 74-81.	1.0	28
64	Age-related alterations in hypothalamic kisspeptin, neurokinin B, and dynorphin neurons and in pulsatile LH release in female and male rats. <i>Neurobiology of Aging</i> , 2017, 50, 30-38.	1.5	28
65	Bioavailability of vitamin C from mashed potatoes and potato chips after oral administration in healthy Japanese men. <i>British Journal of Nutrition</i> , 2012, 107, 885-892.	1.2	27
66	Carbamylated albumin is one of the target antigens of anti-carbamylated protein antibodies. <i>Rheumatology</i> , 2017, 56, 1217-1226.	0.9	27
67	Deimination and expression of peptidylarginine deiminases during cutaneous wound healing in mice. <i>European Journal of Dermatology</i> , 2011, 21, 376-384.	0.3	25
68	Senescence Marker Protein-30 as a Novel Antiaging Molecule. <i>Annals of the New York Academy of Sciences</i> , 2004, 1019, 360-364.	1.8	24
69	Abnormal lipid/lipoprotein metabolism and high plasma testosterone levels in male but not female aromatase-knockout mice. <i>Archives of Biochemistry and Biophysics</i> , 2017, 622, 47-58.	1.4	24
70	Hypoxia-induced production of peptidylarginine deiminases and citrullinated proteins in malignant glioma cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 50-56.	1.0	24
71	Leprdb/db Mice with Senescence Marker Protein-30 Knockout (Leprdb/dbSmp30Y/âˆ“) Exhibit Increases in Small Dense-LDL and Severe Fatty Liver Despite Being Fed a Standard Diet. <i>PLoS ONE</i> , 2013, 8, e65698.	1.1	24
72	Peptidylarginine deiminase type I, type II, type III and type IV are expressed in rat epidermis. <i>Biomedical Research</i> , 2001, 22, 63-65.	0.3	24

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73	Age-related changes of dopamine, noradrenaline and adrenaline in adrenal glands of mice. <i>Geriatrics and Gerontology International</i> , 2013, 13, 490-496.	0.7	23
74	Protein Deimination in the Rat Brain: Generation of Citrulline-Containing Proteins in Cerebrum Perfused with Oxygen-Deprived Media. <i>Biomedical Research</i> , 2000, 21, 197-205.	0.3	22
75	Regulatory effects of senescence marker protein 30 on the proliferation of hepatocytes. <i>Pathology International</i> , 2001, 51, 491-497.	0.6	22
76	Senescence Marker Protein 30 Has a Cardio-Protective Role in Doxorubicin-Induced Cardiac Dysfunction. <i>PLoS ONE</i> , 2013, 8, e79093.	1.1	22
77	Dibutyl phthalate impairs neural progenitor cell proliferation and hippocampal neurogenesis. <i>Food and Chemical Toxicology</i> , 2019, 129, 239-248.	1.8	22
78	Effects of vitamin C deficiency on the skin of the senescence marker protein-30 (SMP30) knockout mouse. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 478-483.	1.0	21
79	17 β -Estradiol attenuates saturated fatty acid diet-induced liver injury in ovariectomized mice by up-regulating hepatic senescence marker protein-30. <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 252-257.	1.0	21
80	Absorption and Excretion of Ascorbic Acid Alone and in Acerola (<i>Malpighia emarginata</i>) Juice: Comparison in Healthy Japanese Subjects. <i>Biological and Pharmaceutical Bulletin</i> , 2011, 34, 1744-1747.	0.6	20
81	Deficiency of senescence marker protein 30 exacerbates angiotensin II-induced cardiac remodelling. <i>Cardiovascular Research</i> , 2013, 99, 461-470.	1.8	20
82	Anti-inflammatory activity of SMP30 modulates NF- κ B through protein tyrosine kinase/phosphatase balance. <i>Journal of Molecular Medicine</i> , 2015, 93, 343-356.	1.7	20
83	Neuroprotective and Anti-Inflammatory Effects of Evernic Acid in an MPTP-Induced Parkinson's Disease Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2098.	1.8	19
84	Age-related changes in DNA synthesis stimulated by epinephrine and isoproterenol in primary cultured rat hepatocytes. <i>Journal of Cellular Physiology</i> , 1994, 158, 231-236.	2.0	18
85	Implication of p53-dependent cellular senescence related gene, TARSH in tumor suppression. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 807-812.	1.0	18
86	Coronary Artery Spasm Related to Thiol Oxidation and Senescence Marker Protein-30 in Aging. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1063-1073.	2.5	18
87	Potato Chip Intake Increases Ascorbic Acid Levels and Decreases Reactive Oxygen Species in SMP30/GNL Knockout Mouse Tissues. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9286-9295.	2.4	18
88	Senescence marker protein-30/gluconolactonase deficiency exacerbates diabetic nephropathy through tubular injury in a mouse model of type 1 diabetes. <i>Journal of Diabetes Investigation</i> , 2015, 6, 35-43.	1.1	18
89	Attenuated phagocytosis of secondary necrotic neutrophils by macrophages in aged and SMP30 knockout mice. <i>Geriatrics and Gerontology International</i> , 2016, 16, 135-142.	0.7	18
90	Prevalence of soluble peptidylarginine deiminase 4 (PAD4) and anti-PAD4 antibodies in autoimmune diseases. <i>Clinical Rheumatology</i> , 2016, 35, 1181-1188.	1.0	18

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91	Structural Basis of the γ -Lactone-Ring Formation in Ascorbic Acid Biosynthesis by the Senescence Marker Protein-30/Gluconolactonase. <i>PLoS ONE</i> , 2013, 8, e53706.	1.1	18
92	Two novel sandwich ELISAs identify PAD4 levels and PAD4 autoantibodies in patients with rheumatoid arthritis. <i>Modern Rheumatology</i> , 2013, 23, 794-803.	0.9	17
93	Pharmacological and genetic reappraisals of protease and oxidative stress pathways in a mouse model of obstructive lung diseases. <i>Scientific Reports</i> , 2016, 6, 39305.	1.6	17
94	Involvement of senescence marker protein-30 in glucose metabolism disorder and non-alcoholic fatty liver disease. <i>Geriatrics and Gerontology International</i> , 2016, 16, 4-16.	0.7	17
95	Age-related changes of vitamin E: α -tocopherol levels in plasma and various tissues of mice and hepatic α -tocopherol transfer protein. <i>European Journal of Nutrition</i> , 2017, 56, 1317-1327.	1.8	17
96	Vitamin C and vitamin E double-deficiency increased neuroinflammation and impaired conditioned fear memory. <i>Archives of Biochemistry and Biophysics</i> , 2019, 663, 120-128.	1.4	17
97	Senescence marker protein-30 (SMP30) induces formation of microvilli and bile canaliculi in Hep G2 cells. <i>Cell and Tissue Research</i> , 2005, 320, 243-249.	1.5	16
98	Ascorbic Acid Deficiency Leads to Epidermal Atrophy and UVB-Induced Skin Pigmentation in SMP30/GNL Knockout Hairless Mice. <i>Journal of Investigative Dermatology</i> , 2012, 132, 2112-2115.	0.3	16
99	Senescence marker protein 30 inhibits angiotensin II-induced cardiac hypertrophy and diastolic dysfunction. <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 142-147.	1.0	16
100	Effect of ascorbic acid deficiency on catecholamine synthesis in adrenal glands of SMP30/GNL knockout mice. <i>European Journal of Nutrition</i> , 2014, 53, 177-185.	1.8	16
101	Two chalcones, 4-hydroxyderricin and xanthoangelol, stimulate GLUT4-dependent glucose uptake through the LKB1/AMP-activated protein kinase signaling pathway in 3T3-L1 adipocytes. <i>Nutrition Research</i> , 2015, 35, 618-625.	1.3	16
102	Induction of peptidylarginine deiminase 2 and 3 by dibutyryl cAMP via cAMP/PKA signaling in human astrocytoma U-251MG cells. <i>Journal of Neuroscience Research</i> , 2017, 95, 1503-1512.	1.3	16
103	Myelin Basic Protein Citrullination, a Hallmark of Central Nervous System Demyelination, Assessed by Novel Monoclonal Antibodies in Prion Diseases. <i>Molecular Neurobiology</i> , 2018, 55, 3172-3184.	1.9	16
104	Identification of novel biomarker as citrullinated inter-alpha-trypsin inhibitor heavy chain 4, specifically increased in sera with experimental and rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2018, 20, 66.	1.6	16
105	Peptidyl arginine deiminase inhibition suppresses arthritis via decreased protein citrullination in joints and serum with the downregulation of interleukin-6. <i>Modern Rheumatology</i> , 2019, 29, 964-969.	0.9	16
106	All-TransRetinoic Acid Increases Peptidylarginine Deiminases in a Newborn Rat Keratinocyte Cell Line. <i>Biochemical and Biophysical Research Communications</i> , 1996, 223, 299-303.	1.0	15
107	Senescence marker protein 30 is up-regulated in kainate-induced hippocampal damage through ERK-mediated astrocytosis. <i>Journal of Neuroscience Research</i> , 2009, 87, 2890-2897.	1.3	15
108	Ascorbic acid deficiency affects genes for oxidation-reduction and lipid metabolism in livers from SMP30/GNL knockout mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2289-2298.	1.1	15

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109	Pancreatic insulin release in vitamin C-deficient senescence marker protein-30/gluconolactonase knockout mice. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2012, 50, 114-118.	0.6	14
110	Vitamin C impacts anxiety-like behavior and stress-induced anorexia relative to social environment in SMP30/GNL knockout mice. <i>Nutrition Research</i> , 2016, 36, 1379-1391.	1.3	14
111	Senescence marker protein 30 deficiency increases Parkinson's pathology by impairing astrocyte activation. <i>Neurobiology of Aging</i> , 2013, 34, 1177-1183.	1.5	13
112	Senescence Marker Protein-30 (SMP30) Deficiency Impairs Myocardium-Induced Dilation of Coronary Arterioles Associated with Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9408-9423.	1.8	13
113	Anti-aging effects of coffee. <i>Aging</i> , 2017, 9, 1863-1864.	1.4	13
114	Citrullination preferentially proceeds in glomerular Bowman's capsule and increases in obstructive nephropathy. <i>Kidney International</i> , 2005, 68, 84-95.	2.6	12
115	Insufficient ascorbic acid intake during gestation induces abnormal cardiac dilation in fetal and neonatal SMP30/GNL knockout mice. <i>Pediatric Research</i> , 2013, 73, 578-584.	1.1	12
116	Senescence marker protein-30 deficiency impairs angiogenesis under ischemia. <i>Free Radical Biology and Medicine</i> , 2016, 94, 66-73.	1.3	12
117	Coffee consumption in aged mice increases energy production and decreases hepatic mTOR levels. <i>Nutrition</i> , 2017, 38, 1-8.	1.1	12
118	Citrullination of glial intermediate filaments is an early response in retinal injury. <i>Molecular Vision</i> , 2016, 22, 1137-1155.	1.1	12
119	The Redox-Sensitive DNA Binding Sites Responsible for Age-Related Downregulation of SMP30 by ERK Pathway and Reversal by Calorie Restriction. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 671-680.	2.5	11
120	Vitamin C deficiency increases the binucleation of hepatocytes in SMP30 knockout mice. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2010, 25, 1769-1776.	1.4	11
121	Accumulation of citrullinated glial fibrillary acidic protein in a mouse model of bile duct ligation-induced hepatic fibrosis. <i>PLoS ONE</i> , 2018, 13, e0201744.	1.1	11
122	Ascorbic acid during the suckling period is required for proper DNA demethylation in the liver. <i>Scientific Reports</i> , 2020, 10, 21228.	1.6	11
123	Compartmentalized citrullination in Muller glial endfeet during retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	11
124	Age-associated decrease of senescence marker protein-30/gluconolactonase in individual mouse liver cells: Immunohistochemistry and immunofluorescence. <i>Geriatrics and Gerontology International</i> , 2015, 15, 804-810.	0.7	10
125	Deficiency of Senescence Marker Protein 30 Exacerbates Cardiac Injury after Ischemia/Reperfusion. <i>International Journal of Molecular Sciences</i> , 2016, 17, 542.	1.8	10
126	Skewing of peritoneal resident macrophages toward M1-like is involved in enhancement of inflammatory responses induced by secondary necrotic neutrophils in aged mice. <i>Cellular Immunology</i> , 2016, 304-305, 44-48.	1.4	10

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127	High-Dose Vitamin C Preadministration Reduces Vancomycin-Associated Nephrotoxicity in Mice. <i>Journal of Nutritional Science and Vitaminology</i> , 2019, 65, 399-404.	0.2	9
128	High-Fat Diet Enhances Neutrophil Adhesion in LDLR-Null Mice Via Hypercitrullination of Histone H3. <i>JACC Basic To Translational Science</i> , 2021, 6, 507-523.	1.9	9
129	Microglial expression of peptidylarginine deiminase 2 in the prenatal rat brain. <i>Cellular and Molecular Biology Letters</i> , 2007, 12, 536-44.	2.7	8
130	Effects of Vitamin C on Cytotherapy-Mediated Muscle Regeneration. <i>Cell Transplantation</i> , 2013, 22, 1845-1858.	1.2	8
131	Ascorbic acid prevents protein oxidation in livers of senescence marker protein-30/gluconolactonase knockout mice. <i>Geriatrics and Gerontology International</i> , 2014, 14, 989-995.	0.7	8
132	Time-Dependent Alterations of Vancomycin-Induced Nephrotoxicity in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 975-983.	0.6	8
133	Smad3 Deficiency Ameliorates Hepatic Fibrogenesis through the Expression of Senescence Marker Protein-30, an Antioxidant-Related Protein. <i>International Journal of Molecular Sciences</i> , 2013, 14, 23700-23710.	1.8	7
134	The Peptidylarginine Deiminase Inhibitor Cl-Amidine Suppresses Inducible Nitric Oxide Synthase Expression in Dendritic Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2258.	1.8	7
135	Acerola (<i>Malpighia emarginata</i> DC.) Juice Intake Suppresses UVB-Induced Skin Pigmentation in SMP30/GNL Knockout Hairless Mice. <i>PLoS ONE</i> , 2017, 12, e0170438.	1.1	7
136	Senescence marker protein 30 protects intestinal epithelial cells against inflammation-induced cell death by enhancing Nrf2 activity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3668-3678.	1.8	7
137	High dietary vitamin C intake reduces glucocorticoid-induced immunosuppression and measures of oxidative stress in vitamin C-deficient senescence marker protein 30 knockout mice. <i>British Journal of Nutrition</i> , 2019, 122, 1120-1129.	1.2	7
138	Specific Increase in Joint Neutrophil Extracellular Traps and Its Relation to Interleukin 6 in Autoimmune Arthritis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7633.	1.8	7
139	Two novel sandwich ELISAs identify PAD4 levels and PAD4 autoantibodies in patients with rheumatoid arthritis. <i>Modern Rheumatology</i> , 2013, 23, 794-803.	0.9	7
140	Effects of Ascorbic Acid Deficiency on Protein and Lipid Oxidation in Livers from SMP30/GNL Knockout Mice. <i>Journal of Nutritional Science and Vitaminology</i> , 2013, 59, 489-495.	0.2	6
141	Determination of tissue-specific interaction between vitamin C and vitamin E <i>in vivo</i> using senescence marker protein-30 knockout mice as a vitamin C synthesis deficiency model. <i>British Journal of Nutrition</i> , 2022, 128, 993-1003.	1.2	6
142	Age-associated changes in the transcriptomes of non-cultured adipose-derived stem cells from young and old mice assessed via single-cell transcriptome analysis. <i>PLoS ONE</i> , 2020, 15, e0242171.	1.1	6
143	Uric Acid Levels in Tissues and Plasma of Mice during Aging. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 1367-1370.	0.6	5
144	Synthesis and Evaluation of 4-Aryl-2(1H)-quinolinones as Potent Amyloid β Fibrillogenesis Inhibitors. <i>Heterocycles</i> , 2012, 85, 1933.	0.4	5

#	ARTICLE	IF	CITATIONS
145	Age-related oxidant stress with senescence marker protein-30 deficiency plays a pivotal role in coronary artery spasm. <i>Coronary Artery Disease</i> , 2013, 24, 110-118.	0.3	4
146	Senescence Marker Protein-30/Gluconolactonase Expression in the Mouse Ovary during Gestation. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 2005-2008.	0.6	4
147	Radiation-induced gastrointestinal syndrome is exacerbated in vitamin C-insufficient SMP30/GNL knockout mice. <i>Nutrition</i> , 2021, 81, 110931.	1.1	4
148	CXCL1-Triggered PAD4 Cytoplasmic Translocation Enhances Neutrophil Adhesion through Citrullination of PDIA1. <i>Journal of Atherosclerosis and Thrombosis</i> , 2022, 29, 1307-1318.	0.9	4
149	Anti-cyclic citrullinated glucose-6-phosphate isomerase peptide-7 (CCG-7) antibodies were suppressed by biologics treatment and deposited to citrullinated proteins in CD68-positive cells in the RA synovium. <i>Modern Rheumatology</i> , 2017, 27, 914-916.	0.9	3
150	Dietary ascorbic acid restriction in GNL/SMP30-knockout mice unveils the role of ascorbic acid in regulation of somatic and visceral pain sensitivity. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 705-710.	1.0	3
151	Age-dependent changes in vancomycin-induced nephrotoxicity in mice. <i>Journal of Toxicologic Pathology</i> , 2019, 32, 57-66.	0.3	3
152	Age-related dysfunction of p53-regulated phagocytic activity in macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 462-466.	1.0	3
153	Reduced Plasma Ascorbate and Increased Proportion of Dehydroascorbic Acid Levels in Patients Undergoing Hemodialysis. <i>Life</i> , 2021, 11, 1023.	1.1	3
154	Sesame lignans suppress age-related disorders of the kidney in mice. <i>European Review for Medical and Pharmacological Sciences</i> , 2020, 24, 5140-5147.	0.5	3
155	Development of a New Distyrylbenzene-Derivative Amyloid- β -aggregation and Fibril Formation Inhibitor. <i>Chemical and Pharmaceutical Bulletin</i> , 2012, 60, 1164-1170.	0.6	2
156	Reduced aqueous humour ascorbic-acid concentration in women with smaller anterior chamber depth. <i>Scientific Reports</i> , 2019, 9, 372.	1.6	2
157	Immunocytochemical Localization of Peptidylarginine Deiminase Type III, Trichohyalin and Deiminated Trichohyalin in Infant Rat Dorsal Skin Hair Follicle. <i>Biomedical Research</i> , 2001, 22, 91-97.	0.3	2
158	Protein Deimination and Peptidylarginine Deiminase Expression during Cornification of Rat Epidermal Keratinocytes. <i>Biomedical Research</i> , 2002, 23, 145-151.	0.3	2
159	Acerola (<i>Malpighia emarginata</i> DC.) Promotes Ascorbic Acid Uptake into Human Intestinal Caco-2 Cells via Enhancing the Gene Expression of Sodium-Dependent Vitamin C Transporter 1. <i>Journal of Nutritional Science and Vitaminology</i> , 2020, 66, 296-299.	0.2	2
160	Effects of functional variants of vitamin C transporter genes on apolipoprotein E E4-associated risk of cognitive decline: The Nakajima study. <i>PLoS ONE</i> , 2021, 16, e0259663.	1.1	2
161	Vitamin C Is Essential for the Maintenance of Skeletal Muscle Functions. <i>Biology</i> , 2022, 11, 955.	1.3	2
162	Decreased ADAM17 expression in the lungs of β -Klotho reduced mouse. <i>Journal of Biochemistry</i> , 2020, 167, 483-493.	0.9	1

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163	Morphogenesis- and Hair Cycle-dependent Expression of Trichohyalin, Peptidylarginine Deiminase Type III and Deiminated Trichohyalin in Rat Dorsal Skin Hair Follicles. <i>Biomedical Research</i> , 2001, 22, 265-271.	0.3	0
164	Accumulation of amyloid β -like substances in aging <i>Aplysia kurodai</i> CNS. <i>Neuroscience Research</i> , 2010, 68, e302-e303.	1.0	0
165	Establishment and characterization of hepatocytes from an Immortomouse/SMP30/GNL knockout mouse hybrid lacking vitamin C to study vitamin C transport. <i>Journal of Biochemistry</i> , 2011, 150, 671-678.	0.9	0
166	Vitamin C and Physical Performance in the Elderly. , 2014, , 119-127.		0
167	Update on Deimination in Alzheimer's Disease. , 2017, , 293-315.		0
168	The Effect of Vitamin C Consumption on the Oxidative Stress Regulation System in SMP30/GNL Knockout Mice. <i>Japanese Journal of Complementary and Alternative Medicine</i> , 2013, 10, 63-68.	1.0	0
169	Peptidylarginine deiminase modulates the physiological roles of enolase via citrullination. <i>FASEB Journal</i> , 2013, 27, 553.12.	0.2	0
170	Frontier of Aging Regulation Research: Search for Aging Index. <i>Kagaku To Seibutsu</i> , 2018, 56, 324-330.	0.0	0
171	Role of Ascorbic Acid in Skeletal Muscle Regeneration. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0