Rie Mukai

List of Publications by Year
in descending order

51 papers	1,775 citations	236612 25 h-index	276539 41 g-index
51 all docs	51 docs citations	51 times ranked	2792 citing authors

#	Article	IF	Citations
1	Quercetin and related polyphenols: new insights and implications for their bioactivity and bioavailability. Food and Function, 2015, 6, 1399-1417.	2.1	241
2	<scp>D</scp>-Pinitol andmyo-Inositol Stimulate Translocation of Glucose Transporter 4 in Skeletal Muscle of C57BL/6 Mice. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1062-1067.	0.6	89
3	Mitochondrial Dysfunction Leads to Deconjugation of Quercetin Glucuronides in Inflammatory Macrophages. PLoS ONE, 2013, 8, e80843.	1.1	87
4	Dietary flavonoids as cancer-preventive and therapeutic biofactors. Frontiers in Bioscience - Scholar, 2011, S3, 1332.	0.8	82
5	Prevention of Disuse Muscle Atrophy by Dietary Ingestion of 8-Prenylnaringenin in Denervated Mice. PLoS ONE, 2012, 7, e45048.	1.1	71
6	Evaluation of the Inhibitory Effects of Quercetin-Related Flavonoids and Tea Catechins on the Monoamine Oxidase-A Reaction in Mouse Brain Mitochondria. Journal of Agricultural and Food Chemistry, 2012, 60, 10270-10277.	2.4	68
7	Prenylation enhances the biological activity of dietary flavonoids by altering their bioavailability. Bioscience, Biotechnology and Biochemistry, 2018, 82, 207-215.	0.6	64
8	Bioavailability of orally administered water-dispersible hesperetin and its effect on peripheral vasodilatation in human subjects: implication of endothelial functions of plasma conjugated metabolites. Food and Function, 2012, 3, 389.	2.1	63
9	Specific localization of quercetin-3-O-glucuronide in human brain. Archives of Biochemistry and Biophysics, 2014, 557, 11-17.	1.4	55
10	Interaction between the aryl hydrocarbon receptor and its antagonists, flavonoids. Biochemical and Biophysical Research Communications, 2007, 359, 822-827.	1.0	53
11	Preventive effect of dietary quercetin on disuse muscle atrophy by targeting mitochondria in denervated mice. Journal of Nutritional Biochemistry, 2016, 31, 67-76.	1.9	52
12	Quercetin Prevents Unloading-Derived Disused Muscle Atrophy by Attenuating the Induction of Ubiquitin Ligases in Tail-Suspension Mice. Journal of Natural Products, 2010, 73, 1708-1710.	1.5	51
13	Prenylation Enhances Quercetin Uptake and Reduces Efflux in Caco-2 Cells and Enhances Tissue Accumulation in Mice Fed Long-Term. Journal of Nutrition, 2013, 143, 1558-1564.	1.3	50
14	Prenylation modulates the bioavailability and bioaccumulation of dietary flavonoids. Archives of Biochemistry and Biophysics, 2014, 559, 12-16.	1.4	48
15	Suppression mechanisms of flavonoids on aryl hydrocarbon receptor-mediated signal transduction. Archives of Biochemistry and Biophysics, 2010, 501, 134-141.	1.4	45
16	Isoflavones Derived from Soy Beans Prevent MuRF1-Mediated Muscle Atrophy in C2C12 Myotubes through SIRT1 Activation. Journal of Nutritional Science and Vitaminology, 2013, 59, 317-324.	0.2	45
17	Cellular uptake of quercetin and luteolin and their effects on monoamine oxidase-A in human neuroblastoma SH-SY5Y cells. Toxicology Reports, 2014, 1, 639-649.	1.6	42
18	Molokhia (Corchorus olitorius L.) extract suppresses transformation of the aryl hydrocarbon receptor induced by dioxins. Food and Chemical Toxicology, 2006, 44, 250-260.	1.8	34

#	Article	IF	Citations
19	Biological impacts of resveratrol, quercetin, and <i>N</i>-acetylcysteine on oxidative stress in human gingival fibroblasts. Journal of Clinical Biochemistry and Nutrition, 2015, 56, 220-227.	0.6	34
20	Subcellular localization of flavonol aglycone in hepatocytes visualized by confocal laser scanning fluorescence microscope. Cytotechnology, 2009, 59, 177-182.	0.7	33
21	Effect of quercetin and its glucuronide metabolite upon 6-hydorxydopamine-induced oxidative damage in Neuro-2a cells. Free Radical Research, 2012, 46, 1019-1028.	1.5	29
22	Suppression of Lipopolysaccharide and Galactosamine-Induced Hepatic Inflammation by Red Grape Pomace. Journal of Agricultural and Food Chemistry, 2012, 60, 9315-9320.	2.4	29
23	An Efficient Method for C8-Prenylation of Flavonols and Flavanones. Synthesis, 2012, 44, 1308-1314.	1.2	28
24	Soy Glycinin Contains a Functional Inhibitory Sequence against Muscle-Atrophy-Associated Ubiquitin Ligase Cbl-b. International Journal of Endocrinology, 2013, 2013, 1-11.	0.6	28
25	Effect of quercetin and its metabolite on caveolin-1 expression induced by oxidized LDL and lysophosphatidylcholine in endothelial cells. Journal of Clinical Biochemistry and Nutrition, 2016, 58, 193-201.	0.6	28
26	Antiâ€inflammatory effects and molecular mechanisms of 8â€prenyl quercetin. Molecular Nutrition and Food Research, 2016, 60, 1020-1032.	1.5	28
27	Tissue Distribution of Hesperetin in Rats after a Dietary Intake. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1608-1610.	0.6	27
28	Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in Cblâ€bâ€deficient mice. Muscle and Nerve, 2011, 43, 223-229.	1.0	25
29	3-O-Acyl-epicatechins Increase Glucose Uptake Activity and GLUT4 Translocation through Activation of PI3K Signaling in Skeletal Muscle Cells. International Journal of Molecular Sciences, 2015, 16, 16288-16299.	1.8	23
30	Effects of dietary soy protein on skeletal muscle volume and strength in humans with various physical activities. Journal of Medical Investigation, 2015, 62, 177-183.	0.2	22
31	N-myristoylated ubiquitin ligase Cbl-b inhibitor prevents on glucocorticoid-induced atrophy in mouse skeletal muscle. Archives of Biochemistry and Biophysics, 2015, 570, 23-31.	1.4	20
32	A new southwestern chemistry-based ELISA for detection of aryl hydrocarbon receptor transformation: application to the screening of its receptor agonists and antagonists. Journal of Immunological Methods, 2004, 287, 187-201.	0.6	19
33	Molecular Mechanisms of Cadmium-Induced Fibroblast Growth Factor 23 Upregulation in Osteoblast-Like Cells. Toxicological Sciences, 2014, 139, 301-316.	1.4	16
34	Inhibition of P-Glycoprotein Enhances the Suppressive Effect of Kaempferol on Transformation of the Aryl Hydrocarbon Receptor. Bioscience, Biotechnology and Biochemistry, 2009, 73, 1635-1639.	0.6	15
35	8-Prenylnaringenin promotes recovery from immobilization-induced disuse muscle atrophy through activation of the Akt phosphorylation pathway in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R1022-R1031.	0.9	15
36	Cacao Polyphenol Extract Suppresses Transformation of an Aryl Hydrocarbon Receptor in C57BL/6 Mice. Journal of Agricultural and Food Chemistry, 2008, 56, 10399-10405.	2.4	14

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37	Effect of Processed Onions on the Plasma Concentration of Quercetin in Rats and Humans. Journal of Food Science, 2015, 80, H2597-602.	1.5	14
38	Catechins in tea suppress the activity of cytochrome P450 1A1 through the aryl hydrocarbon receptor activation pathway in rat livers. International Journal of Food Sciences and Nutrition, 2015, 66, 300-307.	1.3	13
39	Anthocyans Fail to Suppress Transformation of Aryl Hydrocarbon Receptor Induced by Dioxin. Bioscience, Biotechnology and Biochemistry, 2005, 69, 896-903.	0.6	12
40	Determination of Subcellular Localization of Flavonol in Cultured Cells by Laser Scanning. , 0, , .		8
41	Suppressive effects of quercetin on hydrogen peroxide-induced caveolin-1 phosphorylation in endothelial cells. Journal of Clinical Biochemistry and Nutrition, 2021, 69, 28-36.	0.6	7
42	8â€Prenylnaringenin tissue distribution and pharmacokinetics in mice and its binding to human serum albumin and cellular uptake in human embryonic kidney cells. Food Science and Nutrition, 2022, 10, 1070-1080.	1.5	7
43	Role of dietary flavonoids in oxidative stress and prevention of muscle atrophy. The Journal of Physical Fitness and Sports Medicine, 2013, 2, 385-392.	0.2	6
44	The First Synthesis of Uralenol, 5â€²-Prenylated Quercetin, via Palladium-CatalyzedÂ-O-Dimethylallylation Reaction with Concurrent Acetyl Migration. Synthesis, 2014, 46, 170-174.	1.2	6
45	Inhibitory effect of catecholic colonic metabolites of rutin on fatty acid hydroperoxide and hemoglobin dependent lipid peroxidation in Caco-2 cells. Journal of Clinical Biochemistry and Nutrition, 2018, 63, 175-180.	0.6	6
46	Eriocitrin Contained in Lemon Peel Ameliorates Disuse Muscle Atrophy by Suppressing the Expression of Atrogin-1 and MuRF-1 in Denervated Mice. Journal of Natural Products, 2021, 84, 2048-2052.	1.5	6
47	Chocolate as a food matrix reduces the bioavailability of galloylated catechins from green tea in healthy women. Food and Function, 2021, 12, 408-416.	2.1	6
48	Identification of a Functional 2-keto-myo-Inositol Dehydratase Gene ofSinorhizobium frediiUSDA191 Required formyo-Inositol Utilization. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2957-2964.	0.6	4
49	Screening of indigenous plants from Japan for modulating effects on transformation of the aryl hydrocarbon receptor. Asian Pacific Journal of Cancer Prevention, 2006, 7, 208-20.	0.5	4
50	Antagonistic Effect of the Ainuâ€Selected Traditional Beneficial Plants on the Transformation of an Aryl Hydrocarbon Receptor. Journal of Food Science, 2012, 77, C420-9.	1.5	2
51	Anthocyan does not suppress transformation of aryl hydrocarbon receptor induced by dioxin. BioFactors, 2004, 21, 371-373.	2.6	1