

# Rie Mukai

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

1,367  
citations

23  
h-index

36  
g-index

51  
ext. papers

1,573  
ext. citations

3.5  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
51	Quercetin and related polyphenols: new insights and implications for their bioactivity and bioavailability. <i>Food and Function</i> , <b>2015</b> , 6, 1399-417	6.1	174
50	D-pinitol and myo-inositol stimulate translocation of glucose transporter 4 in skeletal muscle of C57BL/6 mice. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2010</b> , 74, 1062-7	2.1	77
49	Mitochondrial dysfunction leads to deconjugation of quercetin glucuronides in inflammatory macrophages. <i>PLoS ONE</i> , <b>2013</b> , 8, e80843	3.7	72
48	Dietary flavonoids as cancer-preventive and therapeutic biofactors. <i>Frontiers in Bioscience - Scholar</i> , <b>2011</b> , 3, 1332-62	2.4	64
47	Prevention of disuse muscle atrophy by dietary ingestion of 8-prenylnaringenin in denervated mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e45048	3.7	59
46	Evaluation of the inhibitory effects of quercetin-related flavonoids and tea catechins on the monoamine oxidase-A reaction in mouse brain mitochondria. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 10270-7	5.7	58
45	Bioavailability of orally administered water-dispersible hesperetin and its effect on peripheral vasodilatation in human subjects: implication of endothelial functions of plasma conjugated metabolites. <i>Food and Function</i> , <b>2012</b> , 3, 389-98	6.1	51
44	Interaction between the aryl hydrocarbon receptor and its antagonists, flavonoids. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 359, 822-7	3.4	45
43	Specific localization of quercetin-3-O-glucuronide in human brain. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 557, 11-7	4.1	41
42	Suppression mechanisms of flavonoids on aryl hydrocarbon receptor-mediated signal transduction. <i>Archives of Biochemistry and Biophysics</i> , <b>2010</b> , 501, 134-41	4.1	41
41	Prenylation enhances quercetin uptake and reduces efflux in Caco-2 cells and enhances tissue accumulation in mice fed long-term. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 1558-64	4.1	40
40	Quercetin prevents unloading-derived disused muscle atrophy by attenuating the induction of ubiquitin ligases in tail-suspension mice. <i>Journal of Natural Products</i> , <b>2010</b> , 73, 1708-10	4.9	40
39	Prenylation modulates the bioavailability and bioaccumulation of dietary flavonoids. <i>Archives of Biochemistry and Biophysics</i> , <b>2014</b> , 559, 12-6	4.1	36
38	Preventive effect of dietary quercetin on disuse muscle atrophy by targeting mitochondria in denervated mice. <i>Journal of Nutritional Biochemistry</i> , <b>2016</b> , 31, 67-76	6.3	36
37	Prenylation enhances the biological activity of dietary flavonoids by altering their bioavailability. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2018</b> , 82, 207-215	2.1	33
36	Cellular uptake of quercetin and luteolin and their effects on monoamine oxidase-A in human neuroblastoma SH-SY5Y cells. <i>Toxicology Reports</i> , <b>2014</b> , 1, 639-649	4.8	31
35	Isoflavones derived from soy beans prevent MuRF1-mediated muscle atrophy in C2C12 myotubes through SIRT1 activation. <i>Journal of Nutritional Science and Vitaminology</i> , <b>2013</b> , 59, 317-24	1.1	31

34	Molokhia ( <i>Corchorus olitorius</i> L.) extract suppresses transformation of the aryl hydrocarbon receptor induced by dioxins. <i>Food and Chemical Toxicology</i> , <b>2006</b> , 44, 250-60	4.7	31
33	Suppression of lipopolysaccharide and galactosamine-induced hepatic inflammation by red grape pomace. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 9315-20	5.7	26
32	Subcellular localization of flavonol aglycone in hepatocytes visualized by confocal laser scanning fluorescence microscope. <i>Cytotechnology</i> , <b>2009</b> , 59, 177-82	2.2	26
31	Biological impacts of resveratrol, quercetin, and N-acetylcysteine on oxidative stress in human gingival fibroblasts. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2015</b> , 56, 220-7	3.1	24
30	Tissue distribution of hesperetin in rats after a dietary intake. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2011</b> , 75, 1608-10	2.1	23
29	Effect of quercetin and its glucuronide metabolite upon 6-hydroxydopamine-induced oxidative damage in Neuro-2a cells. <i>Free Radical Research</i> , <b>2012</b> , 46, 1019-28	4	23
28	Anti-inflammatory effects and molecular mechanisms of 8-prenyl quercetin. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 1020-32	5.9	23
27	3-O-Acyl-epicatechins Increase Glucose Uptake Activity and GLUT4 Translocation through Activation of PI3K Signaling in Skeletal Muscle Cells. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 16288-99	6.3	20
26	Soy Glycinin Contains a Functional Inhibitory Sequence against Muscle-Atrophy-Associated Ubiquitin Ligase Cbl-b. <i>International Journal of Endocrinology</i> , <b>2013</b> , 2013, 907565	2.7	20
25	A new southwestern chemistry-based ELISA for detection of aryl hydrocarbon receptor transformation: application to the screening of its receptor agonists and antagonists. <i>Journal of Immunological Methods</i> , <b>2004</b> , 287, 187-201	2.5	19
24	Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in Cbl-b-deficient mice. <i>Muscle and Nerve</i> , <b>2011</b> , 43, 223-9	3.4	18
23	An Efficient Method for C8-Prenylation of Flavonols and Flavanones. <i>Synthesis</i> , <b>2012</b> , 44, 1308-1314	2.9	18
22	Effect of quercetin and its metabolite on caveolin-1 expression induced by oxidized LDL and lysophosphatidylcholine in endothelial cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2016</b> , 58, 193-201	3.1	17
21	N-myristoylated ubiquitin ligase Cbl-b inhibitor prevents on glucocorticoid-induced atrophy in mouse skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 570, 23-31	4.1	16
20	Effects of dietary soy protein on skeletal muscle volume and strength in humans with various physical activities. <i>Journal of Medical Investigation</i> , <b>2015</b> , 62, 177-83	1.2	14
19	Molecular mechanisms of cadmium-induced fibroblast growth factor 23 upregulation in osteoblast-like cells. <i>Toxicological Sciences</i> , <b>2014</b> , 139, 301-16	4.4	13
18	Inhibition of P-glycoprotein enhances the suppressive effect of kaempferol on transformation of the aryl hydrocarbon receptor. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 1635-9	2.1	13
17	Cacao polyphenol extract suppresses transformation of an aryl hydrocarbon receptor in C57BL/6 mice. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 10399-405	5.7	13

16	Effect of Processed Onions on the Plasma Concentration of Quercetin in Rats and Humans. <i>Journal of Food Science</i> , <b>2015</b> , 80, H2597-602	3.4	12
15	8-Prenylaringenin promotes recovery from immobilization-induced disuse muscle atrophy through activation of the Akt phosphorylation pathway in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2016</b> , 311, R1022-R1031	3.2	12
14	Anthocyanins fail to suppress transformation of aryl hydrocarbon receptor induced by dioxin. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 896-903	2.1	11
13	Catechins in tea suppress the activity of cytochrome P450 1A1 through the aryl hydrocarbon receptor activation pathway in rat livers. <i>International Journal of Food Sciences and Nutrition</i> , <b>2015</b> , 66, 300-7	3.7	10
12	Determination of Subcellular Localization of Flavonol in Cultured Cells by Laser Scanning <b>2011</b> ,		6
11	Inhibitory effect of catecholic colonic metabolites of rutin on fatty acid hydroperoxide and hemoglobin dependent lipid peroxidation in Caco-2 cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2018</b> , 63, 175-180	3.1	5
10	The First Synthesis of Uralenol, 5?-Prenylated Quercetin, via Palladium-Catalyzed O-Dimethylallylation Reaction with Concurrent Acetyl Migration. <i>Synthesis</i> , <b>2014</b> , 46, 170-174	2.9	5
9	Role of dietary flavonoids in oxidative stress and prevention of muscle atrophy. <i>The Journal of Physical Fitness and Sports Medicine</i> , <b>2013</b> , 2, 385-392	0.5	5
8	Identification of a functional 2-keto-myo-inositol dehydratase gene of Sinorhizobium fredii USDA191 required for myo-inositol utilization. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 2957-2964	2.1	4
7	Screening of indigenous plants from Japan for modulating effects on transformation of the aryl hydrocarbon receptor. <i>Asian Pacific Journal of Cancer Prevention</i> , <b>2006</b> , 7, 208-20	1.7	3
6	Antagonistic effect of the Ainu-selected traditional beneficial plants on the transformation of an aryl hydrocarbon receptor. <i>Journal of Food Science</i> , <b>2012</b> , 77, C420-9	3.4	2
5	8-Prenylaringenin tissue distribution and pharmacokinetics in mice and its binding to human serum albumin and cellular uptake in human embryonic kidney cells. <i>Food Science and Nutrition</i> , <b>2022</b> , 10, 1070-1080	3.2	2
4	Anthocyanin does not suppress transformation of aryl hydrocarbon receptor induced by dioxin. <i>BioFactors</i> , <b>2004</b> , 21, 371-3	6.1	1
3	Eriocitrin Contained in Lemon Peel Ameliorates Disuse Muscle Atrophy by Suppressing the Expression of Atrogin-1 and MuRF-1 in Denervated Mice. <i>Journal of Natural Products</i> , <b>2021</b> , 84, 2048-2052	4.9	1
2	Suppressive effects of quercetin on hydrogen peroxide-induced caveolin-1 phosphorylation in endothelial cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , <b>2021</b> , 69, 28-36	3.1	1
1	Chocolate as a food matrix reduces the bioavailability of galloylated catechins from green tea in healthy women. <i>Food and Function</i> , <b>2021</b> , 12, 408-416	6.1	1