Hitoshi Shirakawa

List of Publications by Year in descending order

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117571 168321 3,472 115 34 53 citations g-index h-index papers 118 118 118 4521 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Dietary tryptophan alleviates dextran sodium sulfate-induced colitis through aryl hydrocarbon receptor in mice. Journal of Nutritional Biochemistry, 2017, 42, 43-50.	1.9	155
2	Vitamin K Suppresses Lipopolysaccharide-Induced Inflammation in the Rat. Bioscience, Biotechnology and Biochemistry, 2006, 70, 926-932.	0.6	154
3	Absorption and Effectiveness of Orally Administered Low Molecular Weight Collagen Hydrolysate in Rats. Journal of Agricultural and Food Chemistry, 2010, 58, 835-841.	2.4	140
4	Vitamin K suppresses the lipopolysaccharide-induced expression of inflammatory cytokines in cultured macrophage-like cells via the inhibition of the activation of nuclear factor \hat{I}^{P} B through the repression of IKK \hat{I} ±/ \hat{I}^{P} phosphorylation. Journal of Nutritional Biochemistry, 2010, 21, 1120-1126.	1.9	129
5	Anti-metabolic syndrome effects of adenosine ingestion in stroke-prone spontaneously hypertensive rats fed a high-fat diet. British Journal of Nutrition, 2010, 104, 48-55.	1.2	122
6	Low-dose dioxins alter gene expression related to cholesterol biosynthesis, lipogenesis, and glucose metabolism through the aryl hydrocarbon receptor-mediated pathway in mouse liver. Toxicology and Applied Pharmacology, 2008, 229, 10-19.	1.3	121
7	Novel Effects of a Single Administration of Ferulic Acid on the Regulation of Blood Pressure and the Hepatic Lipid Metabolic Profile in Stroke-Prone Spontaneously Hypertensive Rats. Journal of Agricultural and Food Chemistry, 2008, 56, 2825-2830.	2.4	111
8	Occurrence, properties, and applications of feruloyl esterases. Applied Microbiology and Biotechnology, 2009, 84, 803-810.	1.7	97
9	Rice Bran Fractions Improve Blood Pressure, Lipid Profile, and Glucose Metabolism in Stroke-Prone Spontaneously Hypertensive Rats. Journal of Agricultural and Food Chemistry, 2006, 54, 1914-1920.	2.4	92
10	Acidic C-Tail of HMGB1 Is Required for Its Target Binding to Nucleosome Linker DNA and Transcription Stimulationâ€. Biochemistry, 2004, 43, 9901-9908.	1.2	75
11	Tocotrienol Inhibits Secretion of Angiogenic Factors from Human Colorectal Adenocarcinoma Cells by Suppressing Hypoxia-Inducible Factor-1α. Journal of Nutrition, 2008, 138, 2136-2142.	1.3	70
12	Primary structure of non-histone chromosomal protein HMG2 revealed by the nucleotide sequence. Biochemistry, 1990, 29, 4419-4423.	1.2	69
13	Mitotic Phosphorylation Prevents the Binding of HMGN Proteins to Chromatin. Molecular and Cellular Biology, 2001, 21, 5169-5178.	1.1	68
14	Stimulation of Transcription in Cultured Cells by High Mobility Group Protein 1: Essential Role of the Acidic Carboxyl-Terminal Region. Biochemistry, 1994, 33, 14690-14695.	1.2	63
15	Stimulation of Transcription Accompanying Relaxation of Chromatin Structure in Cells Overexpressing High Mobility Group 1 Protein. Journal of Biological Chemistry, 1995, 270, 9272-9280.	1.6	60
16	Dietary Supplementation of Fermented Rice Bran Effectively Alleviates Dextran Sodium Sulfate-Induced Colitis in Mice. Nutrients, 2017, 9, 747.	1.7	59
17	Deletion of Hypoxia-Inducible Factor- \hat{l} in Adipocytes Enhances Glucagon-Like Peptide-1 Secretion and Reduces Adipose Tissue Inflammation. PLoS ONE, 2014, 9, e93856.	1.1	54
18	Simultaneous analysis of serotonin, tryptophan and tryptamine levels in common fresh fruits and vegetables in Japan using fluorescence HPLC. Food Bioscience, 2016, 13, 56-59.	2.0	52

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19	NBP-45, a Novel Nucleosomal Binding Protein with a Tissue-specific and Developmentally Regulated Expression. Journal of Biological Chemistry, 2000, 275, 6368-6374.	1.6	51
20	Vitamin K deficiency reduces testosterone production in the testis through down-regulation of the Cyp11a a cholesterol side chain cleavage enzyme in rats. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1482-1488.	1.1	51
21	Extract of fermented barley attenuates chronic alcohol induced liver damage by increasing antioxidative activities. Food Research International, 2010, 43, 118-124.	2.9	46
22	Serotonin Improves High Fat Diet Induced Obesity in Mice. PLoS ONE, 2016, 11, e0147143.	1.1	45
23	Yamabushitake Mushroom (<i>Hericium erinaceus</i>) Improved Lipid Metabolism in Mice Fed a High-Fat Diet. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1447-1451.	0.6	43
24	Impact of fasting time on hepatic lipid metabolism in nutritional animal studies. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1584-1591.	0.6	42
25	Differences in DNA Recognition and Conformational Change Activity between Boxes A and B in HMG2 Protein. Biochemistry, 1999, 38, 589-595.	1.2	41
26	HMGN3a and HMGN3b, Two Protein Isoforms with a Tissue-specific Expression Pattern, Expand the Cellular Repertoire of Nucleosome-binding Proteins. Journal of Biological Chemistry, 2001, 276, 25959-25969.	1.6	41
27	Menaquinone-4 enhances testosterone production in rats and testis-derived tumor cells. Lipids in Health and Disease, 2011, 10, 158.	1.2	40
28	Targeting of High Mobility Group-14/-17 Proteins in Chromatin Is Independent of DNA Sequence. Journal of Biological Chemistry, 2000, 275, 37937-37944.	1.6	39
29	Fermented rice bran supplementation mitigates metabolic syndrome in stroke-prone spontaneously hypertensive rats. BMC Complementary and Alternative Medicine, 2016, 16, 442.	3.7	39
30	Non-histone Chromosomal Proteins HMG1 and 2 Enhance Ligation Reaction of DNA Double-Strand Breaks. Biochemical and Biophysical Research Communications, 1998, 246, 137-141.	1.0	37
31	Antihypertensive effect of biotin in stroke-prone spontaneously hypertensive rats. British Journal of Nutrition, 2008, 99, 756-763.	1.2	37
32	Orally Administered Zinc Increases Food Intake via Vagal Stimulation in Rats. Journal of Nutrition, 2009, 139, 611-616.	1.3	37
33	The aryl hydrocarbon receptor and glucocorticoid receptor interact to activate human metallothionein 2A. Toxicology and Applied Pharmacology, 2013, 273, 90-99.	1.3	37
34	Reduction of Blood Pressure by Soybean Saponins, Renin Inhibitors from Soybean, in Spontaneously Hypertensive Rats. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2310-2312.	0.6	36
35	Identification and evaluation of anti-inflammatory compounds from <i>Kaempferia parviflora </i> Bioscience, Biotechnology and Biochemistry, 2014, 78, 851-860.	0.6	35
36	The Driselase-treated fraction of rice bran is a more effective dietary factor to improve hypertension, glucose and lipid metabolism in stroke-prone spontaneously hypertensive rats compared to ferulic acid. British Journal of Nutrition, 2007, 97, 67-76.	1.2	34

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37	Zinc deficiency causes delayed ATP clearance and adenosine generation in rats and cell culture models. Communications Biology, 2018, $1,113.$	2.0	34
38	Properties of Zip4 accumulation during zinc deficiency and its usefulness to evaluate zinc status: a study of the effects of zinc deficiency during lactation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R459-R468.	0.9	33
39	Mitotic Phosphorylation of Chromosomal Protein HMGN1 Inhibits Nuclear Import and Promotes Interaction with 14.3.3 Proteins. Molecular and Cellular Biology, 2002, 22, 6809-6819.	1.1	32
40	Dietary supplementation with geranylgeraniol suppresses lipopolysaccharide-induced inflammation via inhibition of nuclear factor-l ^o B activation in rats. European Journal of Nutrition, 2013, 52, 1191-1199.	1.8	32
41	Systematic synthesis and anti-inflammatory activity of ï‰-carboxylated menaquinone derivativesâ€"Investigations on identified and putative vitamin K2 metabolites. Bioorganic and Medicinal Chemistry, 2015, 23, 2344-2352.	1.4	31
42	Effect of Biotin Treatment on Hepatic Gene Expression in Streptozotocin-Induced Diabetic Rats. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1290-1298.	0.6	30
43	Fermented Barley Extract Supplementation Maintained Antioxidative Defense Suppressing Lipopolysaccharide-Induced Inflammatory Liver Injury in Rats. Bioscience, Biotechnology and Biochemistry, 2011, 75, 1971-1976.	0.6	30
44	A novel function of geranylgeraniol in regulating testosterone production. Bioscience, Biotechnology and Biochemistry, 2018, 82, 956-962.	0.6	30
45	Nuclear Accumulation of HMG2 Protein Is Mediated by Basic Regions Interspaced with a Long DNA-Binding Sequence, and Retention within the Nucleus Requires the Acidic Carboxyl Terminusâ€. Biochemistry, 1997, 36, 5992-5999.	1.2	29
46	Regulation of blood pressure and glucose metabolism induced by L-tryptophan in stroke-prone spontaneously hypertensive rats. Nutrition and Metabolism, 2011, 8, 45.	1.3	27
47	Genotyping Analysis of Bitter-Taste Receptor Genes <i>TAS2R38</i> and <i>TAS2R46</i> in Japanese Patients with Gastrointestinal Cancers. Journal of Nutritional Science and Vitaminology, 2017, 63, 148-154.	0.2	27
48	Effects of Vitamin K2 on the Expression of Genes Involved in Bile Acid Synthesis and Glucose Homeostasis in Mice with Humanized PXR. Nutrients, 2018, 10, 982.	1.7	27
49	Menaquinone-4 Suppresses Lipopolysaccharide-Induced Inflammation in MG6 Mouse Microglia-Derived Cells by Inhibiting the NF-κB Signaling Pathway. International Journal of Molecular Sciences, 2019, 20, 2317.	1.8	27
50	Inhibitory effects of Kaempferia parviflora extract on monocyte adhesion and cellular reactive oxygen species production in human umbilical vein endothelial cells. European Journal of Nutrition, 2017, 56, 949-964.	1.8	26
51	Resveratrol and its Related Polyphenols Contribute to the Maintenance of Genome Stability. Scientific Reports, 2020, 10, 5388.	1.6	24
52	Temperature Dependence in the Terahertz Spectrum of Nicotinamide: Anharmonicity and Hydrogen-Bonded Network. Journal of Physical Chemistry A, 2017, 121, 2558-2564.	1.1	23
53	Rice Bran Reduces Weight Gain and Modulates Lipid Metabolism in Rats with High-Energy-Diet-Induced Obesity. Nutrients, 2019, 11, 2033.	1.7	23
54	Decreased expression of carbonic anhydrase isozyme II, rather than of isozyme VI, in submandibular glands in long-term zinc-deficient rats. British Journal of Nutrition, 2008, 99, 248-253.	1.2	22

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55	Geranylgeraniol Suppresses the Expression of IRAK1 and TRAF6 to Inhibit NFκB Activation in Lipopolysaccharide-Induced Inflammatory Responses in Human Macrophage-Like Cells. International Journal of Molecular Sciences, 2019, 20, 2320.	1.8	22
56	Adenosine, an Identified Active Component from the Driselase-Treated Fraction of Rice Bran, Is Effective at Improving Metabolic Syndrome in Stroke-Prone Spontaneously Hypertensive Rats. Journal of Agricultural and Food Chemistry, 2009, 57, 2558-2564.	2.4	21
57	Geranylgeraniol enhances testosterone production via the cAMP/protein kinase A pathway in testis-derived I-10 tumor cells. Bioscience, Biotechnology and Biochemistry, 2016, 80, 791-797.	0.6	21
58	Lupeol Supplementation Improves Blood Pressure and Lipid Metabolism Parameters in Stroke-Prone Spontaneously Hypertensive Rats. Bioscience, Biotechnology and Biochemistry, 2012, 76, 183-185.	0.6	20
59	Intermolecular hydrogen bond stretching vibrations observed in terahertz spectra of crystalline vitamins. CrystEngComm, 2018, 20, 1960-1969.	1.3	20
60	Rat-derived feeder cells immortalized by expression of mutant CDK4, cyclin D, and telomerase can support stem cell growth. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 945-956.	1.9	18
61	Beneficial Effects of Vitamin K Status on Glycemic Regulation and Diabetes Mellitus: A Mini-Review. Nutrients, 2020, 12, 2485.	1.7	18
62	Administration of biotin prevents the development of insulin resistance in the skeletal muscles of Otsuka Long-Evans Tokushima fatty rats. Food and Function, 2012, 3, 414.	2.1	17
63	Physiological roles of tryptophan decarboxylase revealed by overexpression of SITDC1 in tomato. Scientia Horticulturae, 2021, 275, 109672.	1.7	17
64	Cloning and sequencing of the gene encoding the plasma membrane H+-ATPase from an acidophilic red alga, Cyanidium caldarium1The nucleotide sequence data reported in this paper will appear in the DDBJ, EMBL and GenBank nucleotide sequence databases with the following accession number D88424.1. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1319, 9-13.	0.5	15
65	Rice Bran as a Functional Food: An Overview of the Conversion of Rice Bran into a Superfood/Functional Food., 0,,.		15
66	Impacts of fish oil on the gut microbiota of rats with alcoholic liver damage. Journal of Nutritional Biochemistry, 2020, 86, 108491.	1.9	15
67	Fermented Rice Bran Supplementation Prevents the Development of Intestinal Fibrosis Due to DSS-Induced Inflammation in Mice. Nutrients, 2021, 13, 1869.	1.7	15
68	Effects of Japanese Torreya (Torreya nucifera) Seed Oil on the Activities and mRNA Expression of Lipid Metabolism-Related Enzymes in Rats. Bioscience, Biotechnology and Biochemistry, 2007, 71, 231-233.	0.6	14
69	The nucleosomal binding protein NSBP1 is highly expressed in the placenta and modulates the expression of differentiation markers in placental Rchoâ€1 cells. Journal of Cellular Biochemistry, 2009, 106, 651-658.	1.2	14
70	Fermented rice bran extract improves blood pressure and glucose in stroke-prone spontaneously hypertensive rats. Nutrition and Food Science, 2019, 49, 844-853.	0.4	14
71	Dietary vitamin K alleviates the reduction in testosterone production induced by lipopolysaccharide administration in rat testis. Food and Function, 2011, 2, 406.	2.1	12
72	Physiological Effects and Tissue Distribution from Large Doses of Tocotrienol in Rats. Bioscience, Biotechnology and Biochemistry, 2012, 76, 1805-1808.	0.6	12

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73	Menaquinone-4 Amplified Glucose-Stimulated Insulin Secretion in Isolated Mouse Pancreatic Islets and INS-1 Rat Insulinoma Cells. International Journal of Molecular Sciences, 2019, 20, 1995.	1.8	12
74	Novel Effect of Adenosine 5′-Monophosphate on Ameliorating Hypertension and the Metabolism of Lipids and Glucose in Stroke-Prone Spontaneously Hypertensive Rats. Journal of Agricultural and Food Chemistry, 2011, 59, 13238-13245.	2.4	11
75	Effect of Kaempferia parviflora extract and its polymethoxyflavonoid components on testosterone production in mouse testis-derived tumour cells. Journal of Functional Foods, 2016, 26, 529-538.	1.6	11
76	Altered activity profile of a tertiary silanol analog of multi-targeting nuclear receptor modulator T0901317. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1817-1820.	1.0	11
77	Supplementation with Fermented Rice Bran Attenuates Muscle Atrophy in a Diabetic Rat Model. Nutrients, 2020, 12, 2409.	1.7	11
78	The Role of Vitamin K in Cholestatic Liver Disease. Nutrients, 2021, 13, 2515.	1.7	11
79	Volatile Compounds, Sensory Profile and Phenolic Compounds in Fermented Rice Bran. Plants, 2021, 10, 1073.	1.6	10
80	Fermented rice bran supplementation attenuates chronic colitis-associated extraintestinal manifestations in female C57BL/6N mice. Journal of Nutritional Biochemistry, 2022, 99, 108855.	1.9	10
81	Fermented barley extract supplementation ameliorates metabolic state in stroke-prone spontaneously hypertensive rats. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1876-1883.	0.6	9
82	Cysteine Sulfoxides Enhance Steroid Hormone Production via Activation of the Protein Kinase A Pathway in Testis-Derived I-10 Tumor Cells. Molecules, 2020, 25, 4694.	1.7	9
83	Detoxification of Oxidized LDL by Transferring Its Oxidation Product(s) to Lecithin:Cholesterol Acyltransferase. Biochemical and Biophysical Research Communications, 2002, 291, 758-763.	1.0	8
84	Involvement of HMGB1 and HMGB2 proteins in exogenous DNA integration reaction into the genome of HeLa S3 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1593, 77-84.	1.9	8
85	Effect of Vitamin K-Mediated PXR Activation on Drug-Metabolizing Gene Expression in Human Intestinal Carcinoma LS180 Cell Line. Nutrients, 2021, 13, 1709.	1.7	8
86	The Volatile Compounds and Aroma Description in Various Rhizopus oligosporus Solid-State Fermented and Nonfermented Rice Bran. Fermentation, 2022, 8, 120.	1.4	8
87	Processed soymilk effectively ameliorates blood pressure elevation in spontaneously hypertensive rats. Journal of Functional Foods, 2015, 14, 126-132.	1.6	7
88	Development of novel silanol-based human pregnane X receptor (PXR) agonists with improved receptor selectivity. Bioorganic and Medicinal Chemistry, 2018, 26, 4493-4501.	1.4	7
89	Orexigenic action of oral zinc: metabolomic analysis in the rat hypothalamus. Bioscience, Biotechnology and Biochemistry, 2018, 82, 2168-2175.	0.6	6
90	In vivo emergence of beige-like fat in chickens as physiological adaptation to cold environments. Amino Acids, 2021, 53, 381-393.	1.2	6

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91	The Prophylactic Effects of Glutamine on Muscle Protein Synthesis and Degradation in Rats with Ethanol-Induced Liver Damage. Nutrients, 2021, 13, 2788.	1.7	6
92	Adenosine and adenosine-5′-monophosphate ingestion ameliorates abnormal glucose metabolism in mice fed a high-fat diet. BMC Complementary and Alternative Medicine, 2018, 18, 304.	3.7	5
93	Fish oil up-regulates hepatic autophagy in rats with chronic ethanol consumption. Journal of Nutritional Biochemistry, 2020, 77, 108314.	1.9	5
94	The Effect of Liver Hydrolysate on Chronic Ethanol-Induced Hepatic Injury in Normal Rats. Biological and Pharmaceutical Bulletin, 2020, 43, 554-557.	0.6	5
95	Synbiotics Alleviate Hepatic Damage, Intestinal Injury and Muscular Beclin-1 Elevation in Rats after Chronic Ethanol Administration. International Journal of Molecular Sciences, 2021, 22, 12547.	1.8	5
96	Effects of the Water Extract of Fermented Rice Bran on Liver Damage and Intestinal Injury in Aged Rats with High-Fat Diet Feeding. Plants, 2022, 11, 607.	1.6	5
97	Existence of a Transcription Factor for the Human HMG2 Gene Positively Related to the Level of HMG2 mRNA in the Cells. Biochemistry, 1995, 34, 2521-2527.	1.2	4
98	Conversion of Menaquinone-4 in Animal Organs and its Functions. Oleoscience, 2014, 14, 547-553.	0.0	4
99	Effects of dietary vitamin K ₃ supplementation on vitamin K ₁ and K ₂ (menaquinone) dynamics in dairy cows. Animal Science Journal, 2022, 93, e13680.	0.6	4
100	Detection of Anti-Neutrophil Cytoplasmic Antibodies in MRL/Mp-lpr/lprMice and Analysis of their Target Antigens. Autoimmunity, 2000, 32, 281-291.	1.2	3
101	Behavioral Analysis of Drosophila Transformants Expressing Human Taste Receptor Genes in the Gustatory Receptor Neurons. Journal of Neurogenetics, 2012, 26, 198-205.	0.6	3
102	Development of Rice Bran Functional Food and Evaluation of Its Healthful Properties., 2019,, 183-206.		3
103	Non-volatile compounds and blood pressure-lowering activity of Inpari 30 and Cempo Ireng fermented and non-fermented rice bran. AIMS Agriculture and Food, 2021, 6, 337-359.	0.8	3
104	Complementary effects of pine bark extract supplementation on inattention, impulsivity, and antioxidative status in children with attentionâ€deficit hyperactivity disorder: A doubleâ€blinded randomized placebo ontrolled crossâ€over study. Phytotherapy Research, 2021, 35, 3226-3235.	2.8	3
105	S-allyl Cysteine Enhances Testosterone Production in Mice and Mouse Testis-Derived I-10 Cells. Molecules, 2021, 26, 1697.	1.7	3
106	Geranylgeraniol Inhibits Lipopolysaccharide-Induced Inflammation in Mouse-Derived MG6 Microglial Cells via NF-ÎB Signaling Modulation. International Journal of Molecular Sciences, 2021, 22, 10543.	1.8	3
107	Fermented black rice bran extract inhibit colon cancer proliferation in WiDr cell lines. Food Science and Technology, 0, 42, .	0.8	3
108	Energy Homeostasis by the Peripheral Serotonergic System. , 0, , .		2

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109	Effect of vitamin K3 supplementation on immunoglobulin G concentration in colostrum of periparturient Holstein dairy cows. Animal Science Journal, 2022, 93, e13706.	0.6	2
110	The Function of Geranylgeraniol. Oleoscience, 2018, 18, 99-106.	0.0	1
111	Menaquinoneâ€4 Enhances Steroidogenesis in Testis Derived Tumor Cells Via the Elevation of cAMP Level. , 2017, , .		0
112	The Bioactivity of Indonesian Fermented Rice Bran. Current Developments in Nutrition, 2021, 5, 573.	0.1	0
113	Vitamin K can Suppress the Inflammation Induced by Lipopolysaccharide Administration Journal of Hard Tissue Biology, 2005, 14, 284-285.	0.2	0
114	Emerging Roles of Nutraceuticals from Selected Fermented Foods in Lifestyle-Related Disease Prevention., 2020,, 479-488.		0
115	The Volatile Compounds and Aroma Profile of Some Pigmented Rice Brans After Fermentation. Current Research in Nutrition and Food Science, 2022, 10, 145-170.	0.3	0