

# Takahiro Shibata

## List of Publications by Year in descending order

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99  
papers

4,930  
citations

147566

31  
h-index

91712

69  
g-index

104  
all docs

104  
docs citations

104  
times ranked

6594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-dependent internalization of the purinergic P2Y <sub>6</sub> receptor limits colitis progression. <i>Science Signaling</i> , 2022, 15, eabj0644.	1.6	12
2	Histone functions as a cell-surface receptor for AGEs. <i>Nature Communications</i> , 2022, 13, .	5.8	5
3	Molecular networking-based lipid profiling and multi-omics approaches reveal new contributions of functional vanilloids to gut microbiota and lipometabolism changes. <i>Food Chemistry Molecular Sciences</i> , 2022, 5, 100123.	0.9	1
4	Extracellular vesicles derived from inflamed murine colorectal tissue induce fibroblast proliferation via epidermal growth factor receptor. <i>FEBS Journal</i> , 2021, 288, 1906-1917.	2.2	11
5	Screening of a novel free fatty acid receptor 1 (FFAR1) agonist peptide by phage display and machine learning based-amino acid substitution. <i>Biochemical and Biophysical Research Communications</i> , 2021, 550, 177-183.	1.0	3
6	Identification of biosynthetic intermediates for the mating hormone $\hat{1}\pm 2$ of the plant pathogen <i>Phytophthora</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 1802-1808.	0.6	0
7	Sodium sulfite causes gastric mucosal cell death by inducing oxidative stress. <i>Free Radical Research</i> , 2021, 55, 606-618.	1.5	11
8	6-Paradol Acts as a Potential Anti-obesity Vanilloid from Grains of Paradise. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2100185.	1.5	9
9	Low-molecular-weight whey proteins promote collagen production in dermal fibroblasts via the TGF- $\hat{1}2$ receptor/Smad pathway. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 2232-2240.	0.6	2
10	Oxidative deamination of lysine residues by polyphenols generates an equilibrium of aldehyde and 2-piperidinol products. <i>Journal of Biological Chemistry</i> , 2021, 297, 101035.	1.6	8
11	Low temperature plasma irradiation products of sodium lactate solution that induce cell death on U251SP glioblastoma cells were identified. <i>Scientific Reports</i> , 2021, 11, 18488.	1.6	20
12	Agonist/Antagonist Activity of Oxytocin Variants Obtained from Free Cyclic Peptide Libraries Generated via Amino Acid Substitution. <i>ACS Omega</i> , 2021, 6, 31244-31252.	1.6	4
13	Relationship among structure, cytotoxicity, and Michael acceptor reactivity of quinocidin. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115308.	1.4	0
14	Acrolein in cigarette smoke attenuates the innate immune responses mediated by surfactant protein D. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129699.	1.1	6
15	PPAR $\hat{1}\pm$ Ligand-Binding Domain Structures with Endogenous Fatty Acids and Fibrates. <i>IScience</i> , 2020, 23, 101727.	1.9	41
16	Glycolaldehyde is an endogenous source of lysine N-pyrrolation. <i>Journal of Biological Chemistry</i> , 2020, 295, 7697-7709.	1.6	8
17	Redox cycling of 9,10-phenanthrenequinone activates epidermal growth factor receptor signaling through <i>S</i> -oxidation of protein tyrosine phosphatase 1B. <i>Journal of Toxicological Sciences</i> , 2020, 45, 349-363.	0.7	4
18	Quantitative analysis of oxidized vitamin B1 metabolites generated by hypochlorous acid. <i>Free Radical Biology and Medicine</i> , 2020, 152, 197-206.	1.3	3

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19	Isolation and structure-activity relationship studies of jacaranones: Anti-inflammatory quinoids from the Cuban endemic plant <i>Jacaranda arborea</i> (Bignoniaceae). <i>Tetrahedron Letters</i> , 2020, 61, 152005.	0.7	6
20	Acyl-CoA dehydrogenase long chain (ACADL) is a target protein of stylissatin A, an anti-inflammatory cyclic heptapeptide. <i>Journal of Antibiotics</i> , 2020, 73, 589-592.	1.0	3
21	Molecular Mechanism of Cellular Oxidative Stress Sensing by Keap1. <i>Cell Reports</i> , 2019, 28, 746-758.e4.	2.9	179
22	Modification of endothelial nitric oxide synthase by 4-oxo-2(E)-nonenal(ONE) in preeclamptic placentas. <i>Free Radical Biology and Medicine</i> , 2019, 141, 416-425.	1.3	13
23	A unique mechanism for thiolation of serum albumins by disulphide molecules. <i>Journal of Biochemistry</i> , 2019, 167, 165-171.	0.9	7
24	Diosgenin Supplementation Prevents Lipid Accumulation and Induces Skeletal Muscle-Fiber Hypertrophy in Rats. <i>Journal of Nutritional Science and Vitaminology</i> , 2019, 65, 421-429.	0.2	10
25	A Dual Perspective of the Action of Lysine on Soybean Oil Oxidation Process Obtained by Combining <sup>1</sup> H NMR and LC-MS: Antioxidant Effect and Generation of Lysine-Aldehyde Adducts. <i>Antioxidants</i> , 2019, 8, 326.	2.2	5
26	Apolipoprotein E binds to and reduces serum levels of DNA-mimicking, pyrroled proteins. <i>Journal of Biological Chemistry</i> , 2019, 294, 11035-11045.	1.6	6
27	2-Alkenal modification of hemoglobin: Identification of a novel hemoglobin-specific alkanolic acid-histidine adduct. <i>Redox Biology</i> , 2019, 23, 101115.	3.9	10
28	Protein adductomics: A comprehensive analysis of protein modifications by electrophiles. <i>Free Radical Biology and Medicine</i> , 2019, 144, 218-222.	1.3	11
29	2-Oxo-histidine-containing dipeptides are functional oxidation products. <i>Journal of Biological Chemistry</i> , 2019, 294, 1279-1289.	1.6	39
30	Phlebotomy as a preventive measure for crocidolite-induced mesothelioma in male rats. <i>Cancer Science</i> , 2018, 109, 330-339.	1.7	25
31	Structural and functional insights into S-thiolation of human serum albumins. <i>Scientific Reports</i> , 2018, 8, 932.	1.6	62
32	Development of a novel monoclonal antibody against 4-hydroxy-2E,6Z-dodecadienal (4-HDDE)-protein adducts: Immunochemical application in quantitative and qualitative analyses of lipid peroxidation in vitro and ex vivo. <i>Free Radical Biology and Medicine</i> , 2018, 124, 12-20.	1.3	5
33	An open sandwich immunoassay for detection of 13(R,S)-hydroxy-9(E),11(E)-octadecadienoic acid. <i>Analyst</i> , 2017, 142, 787-793.	1.7	16
34	Roles of 5-lipoxygenase and cyclooxygenase-2 in the biosynthesis of hemiketals E <sub>2</sub> and D <sub>2</sub> by activated human leukocytes. <i>FASEB Journal</i> , 2017, 31, 1867-1878.	0.2	17
35	Adductome-based identification of biomarkers for lipid peroxidation. <i>Journal of Biological Chemistry</i> , 2017, 292, 8223-8235.	1.6	17
36	Oxidative metabolism of curcumin-glucuronide by peroxidases and isolated human leukocytes. <i>Biochemical Pharmacology</i> , 2017, 132, 143-149.	2.0	23

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37	Heat Shock Protein 90 Modulates Lipid Homeostasis by Regulating the Stability and Function of Sterol Regulatory Element-binding Protein (SREBP) and SREBP Cleavage-activating Protein. <i>Journal of Biological Chemistry</i> , 2017, 292, 3016-3028.	1.6	54
38	Lipid radicals cause light-induced retinal degeneration. <i>Chemical Communications</i> , 2017, 53, 10922-10925.	2.2	12
39	Disruption of the structural and functional features of surfactant protein A by acrolein in cigarette smoke. <i>Scientific Reports</i> , 2017, 7, 8304.	1.6	15
40	Identification of Polyphenol-Specific Innate Epitopes That Originated from a Resveratrol Analogue. <i>Biochemistry</i> , 2017, 56, 4701-4712.	1.2	12
41	De Novo Synthesis of Possible Candidates for the Inagami's Tamura Endogenous Digitalis-like Factor. <i>Journal of Organic Chemistry</i> , 2017, 82, 9097-9111.	1.7	11
42	Oxidative Deamination of Serum Albumins by (-)-Epigallocatechin-3-O-Gallate: A Potential Mechanism for the Formation of Innate Antigens by Antioxidants. <i>PLoS ONE</i> , 2016, 11, e0153002.	1.1	26
43	Identification of a prostaglandin D2 metabolite as a neuritogenesis enhancer targeting the TRPV1 ion channel. <i>Scientific Reports</i> , 2016, 6, 21261.	1.6	18
44	Identification of lactate dehydrogenase as a mammalian pyrroloquinoline quinone (PQQ)-binding protein. <i>Scientific Reports</i> , 2016, 6, 26723.	1.6	46
45	Identification of C1q as a Binding Protein for Advanced Glycation End Products. <i>Biochemistry</i> , 2016, 55, 435-446.	1.2	31
46	Functional interaction between cyclooxygenase-2 and p53 in response to an endogenous electrophile. <i>Redox Biology</i> , 2015, 4, 74-86.	3.9	9
47	15-Deoxy- $\Delta^2$ -12,14-prostaglandin J2 as an electrophilic mediator. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 1044-1049.	0.6	27
48	Production of natural IgM antibodies against oxidatively-modified proteins in milk fat globule epidermal growth factor 8 (MFG-E8) deficient mice. <i>Free Radical Biology and Medicine</i> , 2014, 75, S26.	1.3	1
49	15-deoxy- $\Delta^2$ -12,14-prostaglandin J2 as a potential TRPV1-dependent atopic dermatitis enhancer. <i>Free Radical Biology and Medicine</i> , 2014, 75, S49.	1.3	3
50	Toll-like Receptors as a Target of Food-derived Anti-inflammatory Compounds. <i>Journal of Biological Chemistry</i> , 2014, 289, 32757-32772.	1.6	47
51	Lysine pyrrolation is a naturally-occurring covalent modification involved in the production of DNA mimic proteins. <i>Scientific Reports</i> , 2014, 4, 5343.	1.6	20
52	Early Increase in Alveolar Macrophage Prostaglandin 15d-PGJ2 Precedes Neutrophil Recruitment into Lungs of Cytokine-Insufflated Rats. <i>Inflammation</i> , 2013, 36, 1030-1040.	1.7	9
53	Multispecificity of Immunoglobulin M Antibodies Raised against Advanced Glycation End Products. <i>Journal of Biological Chemistry</i> , 2013, 288, 13204-13214.	1.6	27
54	An Apoptosis-Associated Mammary Protein Deficiency Leads to Enhanced Production of IgM Antibodies against Multiple Damage-Associated Molecules. <i>PLoS ONE</i> , 2013, 8, e68468.	1.1	7

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55	Effects of 6- (Methylsulfinyl) hexyl Isothiocyanate on Induction of Heme Oxygenase-1 Gene Expression in Human Intestinal Epithelial Caco-2 Cells. <i>Nihon EiyÅ•ShokuryÅ•Gakkai Shi = Nippon EiyÅ•ShokuryÅ•Gakkaishi = Journal of Japanese Society of Nutrition and Food Science</i> , 2013, 66, 293-300.	0.2	0
56	Identification of 4-hydroxy-2-nonenalâ€“histidine adducts that serve as ligands for human lectin-like oxidized LDL receptor-1. <i>Biochemical Journal</i> , 2012, 442, 171-180.	1.7	33
57	Quantitative Analysis of Acrolein-Specific Adducts Generated during Lipid Peroxidationâ€“Modification of Proteins <i>in Vitro</i> : Identification of N <sup>1</sup> ,N <sup>3</sup> -(3-Propanal)histidine as the Major Adduct. <i>Chemical Research in Toxicology</i> , 2012, 25, 1384-1392.	1.7	40
58	Hydrogen sulfide anion regulates redox signaling via electrophile sulfhydration. <i>Nature Chemical Biology</i> , 2012, 8, 714-724.	3.9	274
59	Monoclonal Antibody against Protein-Bound Glutathione: Use of Glutathione Conjugate of Acrolein-Modified Proteins as an Immunogen. <i>Chemical Research in Toxicology</i> , 2012, 25, 1393-1401.	1.7	5
60	Constitutive expression of an antioxidant enzyme, glutathione S-transferase P1, during differentiation of human intestinal Caco-2 cells. <i>Free Radical Biology and Medicine</i> , 2012, 53, 347-356.	1.3	8
61	A method for detection of 4-hydroxy-2-nonenal adducts in proteins. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1-4.	1.3	29
62	4-Hydroperoxy-2-nonenal Is Not Just an Intermediate but a Reactive Molecule That Covalently Modifies Proteins to Generate Unique Intramolecular Oxidation Products. <i>Journal of Biological Chemistry</i> , 2011, 286, 29313-29324.	1.6	28
63	Transthio carbamylation of Proteins by Thiolated Isothiocyanates*. <i>Journal of Biological Chemistry</i> , 2011, 286, 42150-42161.	1.6	45
64	Lipid Peroxidation Modification of Protein Generates N <sup>1</sup> -(4-Oxononanoyl)lysine as a Pro-inflammatory Ligand. <i>Journal of Biological Chemistry</i> , 2011, 286, 19943-19957.	1.6	31
65	N-Formylethylation in Oxidized LDL. <i>Free Radical Biology and Medicine</i> , 2010, 49, S173.	1.3	0
66	Pertussis Toxin Up-regulates Angiotensin Type 1 Receptors through Toll-like Receptor 4-mediated Rac Activation. <i>Journal of Biological Chemistry</i> , 2010, 285, 15268-15277.	1.6	32
67	Lipid Peroxidation Generates Body Odor Component trans-2-Nonenal Covalently Bound to Protein in Vivo. <i>Journal of Biological Chemistry</i> , 2010, 285, 15302-15313.	1.6	60
68	Identification of a Lipid Peroxidation Product as the Source of Oxidation-specific Epitopes Recognized by Anti-DNA Autoantibodies*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33834-33842.	1.6	34
69	12 <sup>12</sup> -Prostaglandin J <sub>2</sub> as a Product and Ligand of Human Serum Albumin: Formation of an Unusual Covalent Adduct at His146. <i>Journal of the American Chemical Society</i> , 2010, 132, 824-832.	6.6	62
70	Alteration of biochemical and pathological properties of TDP-43 protein by a lipid mediator, 15-deoxy-12,14-prostaglandin J <sub>2</sub> . <i>Experimental Neurology</i> , 2010, 222, 296-303.	2.0	15
71	Stereochemical Configuration of 4-Hydroxy-2-nonenal-Cysteine Adducts and Their Stereoselective Formation in a Redox-regulated Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 28810-28822.	1.6	45
72	Astaxanthin inhibits reactive oxygen species-mediated cellular toxicity in dopaminergic SH-SY5Y cells via mitochondria-targeted protective mechanism. <i>Brain Research</i> , 2009, 1254, 18-27.	1.1	131

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73	Identification of Advanced Reaction Products Originating from the Initial 4-Oxo-2-nonenal-cysteine Michael Adducts. <i>Chemical Research in Toxicology</i> , 2009, 22, 957-964.	1.7	28
74	Immunohistochemical Detection of 13(R)-hydroxyoctadecadienoic Acid in Atherosclerotic Plaques of Human Carotid Arteries Using a Novel Specific Antibody. <i>Acta Histochemica Et Cytochemica</i> , 2009, 42, 197-203.	0.8	14
75	A food-derived synergist of NGF signaling: identification of protein tyrosine phosphatase 1B as a key regulator of NGF receptor-initiated signal transduction. <i>Journal of Neurochemistry</i> , 2008, 107, 1248-1260.	2.1	27
76	Keap1 Regulates the Constitutive Expression of GST A1 during Differentiation of Caco-2 Cells. <i>Biochemistry</i> , 2008, 47, 6169-6177.	1.2	18
77	15-Deoxy- $\Delta^{12,14}$ -prostaglandin J <sub>2</sub> : An Electrophilic Trigger of Cellular Responses. <i>Chemical Research in Toxicology</i> , 2008, 21, 138-144.	1.7	137
78	Protein N-Acylation: H <sub>2</sub> O <sub>2</sub> -Mediated Covalent Modification of Protein by Lipid Peroxidation-Derived Saturated Aldehydes. <i>Chemical Research in Toxicology</i> , 2008, 21, 1261-1270.	1.7	25
79	DHA Hydroperoxides as a Potential Inducer of Neuronal Cell Death: a Mitochondrial Dysfunction-Mediated Pathway. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2008, 43, 26-33.	0.6	31
80	Molecular characterization of TRPA1 channel activation by cysteine-reactive inflammatory mediators. <i>Channels</i> , 2008, 2, 287-298.	1.5	215
81	Identification of a Serum Component That Regulates Cyclooxygenase-2 Gene Expression in Cooperation with 4-Hydroxy-2-nonenal. <i>Journal of Biological Chemistry</i> , 2007, 282, 24166-24174.	1.6	20
82	Protein-bound 4-Hydroxy-2-nonenal. <i>Journal of Biological Chemistry</i> , 2007, 282, 25769-25778.	1.6	45
83	Dose-Dependent Differential Regulation of Cytokine Secretion from Macrophages by Fractalkine. <i>Journal of Immunology</i> , 2007, 179, 7478-7487.	0.4	49
84	Identification of Actin as a 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J <sub>2</sub> Target in Neuroblastoma Cells: A Mass Spectrometric, Computational, and Functional Approaches To Investigate the Effect on Cytoskeletal Derangement. <i>Biochemistry</i> , 2007, 46, 2707-2718.	1.2	73
85	Prostaglandins from a Zoanthid: Paclitaxel-Like Neurite-Degenerating and Microtubule-Stabilizing Activities. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 706-711.	0.6	11
86	Oxidative and Electrophilic Stresses Activate Nrf2 through Inhibition of Ubiquitination Activity of Keap1. <i>Molecular and Cellular Biology</i> , 2006, 26, 221-229.	1.1	775
87	Ebselen, a Seleno-organic Antioxidant, as an Electrophile. <i>Chemical Research in Toxicology</i> , 2006, 19, 1196-1204.	1.7	135
88	Metal-Catalyzed Oxidation of Protein-Bound Dopamine. <i>Biochemistry</i> , 2006, 45, 15120-15128.	1.2	48
89	Polymer-Assisted Solution-Phase Synthesis and Neurite-Outgrowth-Promoting Activity of 15-Deoxy- $\Delta^{12,14}$ -PGJ <sub>2</sub> Derivatives. <i>Chemistry - an Asian Journal</i> , 2006, 1, 669-677.	1.7	17
90	Granuloside...A, a Starfish Steroid Glycoside, Enhances PC12 Cell Neuritogenesis Induced by Nerve Growth Factor through an Activation of MAP Kinase. <i>ChemMedChem</i> , 2006, 1, 1351-1354.	1.6	13

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91	Bispecific Abs against modified protein and DNA with oxidized lipids. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6160-6165.	3.3	29
92	Identification of a Lipid Peroxidation Product as a Potential Trigger of the p53 Pathway*. Journal of Biological Chemistry, 2006, 281, 1196-1204.	1.6	56
93	Chemistry and Biology of Prostaglandin J2. Kagaku To Seibutsu, 2005, 43, 20-27.	0.0	0
94	Differential Responses of the Nrf2-Keap1 System to Laminar and Oscillatory Shear Stresses in Endothelial Cells. Journal of Biological Chemistry, 2005, 280, 27244-27250.	1.6	198
95	Transcription Factor Nrf2 Regulates Inflammation by Mediating the Effect of 15-Deoxy- $\Delta^{12,14}$ -Prostaglandin J2. Molecular and Cellular Biology, 2004, 24, 36-45.	1.1	383
96	An Endogenous Electrophile that Modulates the Regulatory Mechanism of Protein Turnover: $\Delta^{12,14}$ -Prostaglandin J2 Inhibitory Effects of 15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2 on Proteasome. Biochemistry, 2003, 42, 13960-13968.	1.2	55
97	Thioredoxin as a Molecular Target of Cyclopentenone Prostaglandins. Journal of Biological Chemistry, 2003, 278, 26046-26054.	1.6	146
98	15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2: The endogenous electrophile that induces neuronal apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7367-7372.	3.3	171
99	15-Deoxy- $\Delta^{12,14}$ -prostaglandin J2. Journal of Biological Chemistry, 2002, 277, 10459-10466.	1.6	361