Takahiro Shibata

List of Publications by Year in descending order

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Τλκλμιρο Shirata

#	Article	IF	CITATIONS
1	Redox-dependent internalization of the purinergic P2Y ₆ receptor limits colitis progression. Science Signaling, 2022, 15, eabj0644.	3.6	12
2	Histone functions as a cell-surface receptor for AGEs. Nature Communications, 2022, 13, .	12.8	5
3	Molecular networking-based lipid profiling and multi-omics approaches reveal new contributions of functional vanilloids to gut microbiota and lipometabolism changes. Food Chemistry Molecular Sciences, 2022, 5, 100123.	2.1	1
4	Extracellular vesicles derived from inflamed murine colorectal tissue induce fibroblast proliferation via epidermal growth factor receptor. FEBS Journal, 2021, 288, 1906-1917.	4.7	11
5	Screening of a novel free fatty acid receptor 1 (FFAR1) agonist peptide by phage display and machine learning based-amino acid substitution. Biochemical and Biophysical Research Communications, 2021, 550, 177-183.	2.1	3
6	ldentification of biosynthetic intermediates for the mating hormone α2 of the plant pathogen Phytophthora. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1802-1808.	1.3	0
7	Sodium sulfite causes gastric mucosal cell death by inducing oxidative stress. Free Radical Research, 2021, 55, 606-618.	3.3	11
8	6â€Paradol Acts as a Potential Antiâ€obesity Vanilloid from Grains of Paradise. Molecular Nutrition and Food Research, 2021, 65, e2100185.	3.3	9
9	Low-molecular-weight whey proteins promote collagen production in dermal fibroblasts via the TGF-β receptor/Smad pathway. Bioscience, Biotechnology and Biochemistry, 2021, 85, 2232-2240.	1.3	2
10	Oxidative deamination of lysine residues by polyphenols generates an equilibrium of aldehyde and 2-piperidinol products. Journal of Biological Chemistry, 2021, 297, 101035.	3.4	8
11	Low temperature plasma irradiation products of sodium lactate solution that induce cell death on U251SP glioblastoma cells were identified. Scientific Reports, 2021, 11, 18488.	3.3	20
12	Agonist/Antagonist Activity of Oxytocin Variants Obtained from Free Cyclic Peptide Libraries Generated via Amino Acid Substitution. ACS Omega, 2021, 6, 31244-31252.	3.5	4
13	Relationship among structure, cytotoxicity, and Michael acceptor reactivity of quinocidin. Bioorganic and Medicinal Chemistry, 2020, 28, 115308.	3.0	0
14	Acrolein in cigarette smoke attenuates the innate immune responses mediated by surfactant protein D. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129699.	2.4	6
15	PPARα Ligand-Binding Domain Structures with Endogenous Fatty Acids and Fibrates. IScience, 2020, 23, 101727.	4.1	41
16	Glycolaldehyde is an endogenous source of lysine N-pyrrolation. Journal of Biological Chemistry, 2020, 295, 7697-7709.	3.4	8
17	Redox cycling of 9,10-phenanthrenequinone activates epidermal growth factor receptor signaling through <i>S</i> -oxidation of protein tyrosine phosphatase 1B. Journal of Toxicological Sciences, 2020, 45, 349-363.	1.5	4
18	Quantitative analysis of oxidized vitamin B1 metabolites generated by hypochlorous acid. Free Radical Biology and Medicine, 2020, 152, 197-206.	2.9	3

ΤΑΚΑΗΙΡΟ SHIBATA

#	Article	IF	CITATIONS
19	Isolation and structure–activity relationship studies of jacaranones: Anti-inflammatory quinoids from the Cuban endemic plant Jacaranda arborea (Bignoniaceae). Tetrahedron Letters, 2020, 61, 152005.	1.4	6
20	Acyl-CoA dehydrogenase long chain (ACADL) is a target protein of stylissatin A, an anti-inflammatory cyclic heptapeptide. Journal of Antibiotics, 2020, 73, 589-592.	2.0	3
21	Molecular Mechanism of Cellular Oxidative Stress Sensing by Keap1. Cell Reports, 2019, 28, 746-758.e4.	6.4	179
22	Modification of endothelial nitric oxide synthase by 4-oxo-2(E)-nonenal(ONE) in preeclamptic placentas. Free Radical Biology and Medicine, 2019, 141, 416-425.	2.9	13
23	A unique mechanism for thiolation of serum albumins by disulphide molecules. Journal of Biochemistry, 2019, 167, 165-171.	1.7	7
24	Diosgenin Supplementation Prevents Lipid Accumulation and Induces Skeletal Muscle-Fiber Hypertrophy in Rats. Journal of Nutritional Science and Vitaminology, 2019, 65, 421-429.	0.6	10
25	A Dual Perspective of the Action of Lysine on Soybean Oil Oxidation Process Obtained by Combining 1H NMR and LC–MS: Antioxidant Effect and Generation of Lysine–Aldehyde Adducts. Antioxidants, 2019, 8, 326.	5.1	5
26	Apolipoprotein E binds to and reduces serum levels of DNA-mimicking, pyrrolated proteins. Journal of Biological Chemistry, 2019, 294, 11035-11045.	3.4	6
27	2-Alkenal modification of hemoglobin: Identification of a novel hemoglobin-specific alkanoic acid-histidine adduct. Redox Biology, 2019, 23, 101115.	9.0	10
28	Protein adductomics: A comprehensive analysis of protein modifications by electrophiles. Free Radical Biology and Medicine, 2019, 144, 218-222.	2.9	11
29	2-Oxo-histidine–containing dipeptides are functional oxidation products. Journal of Biological Chemistry, 2019, 294, 1279-1289.	3.4	39
30	Phlebotomy as a preventive measure for crocidoliteâ€induced mesothelioma in male rats. Cancer Science, 2018, 109, 330-339.	3.9	25
31	Structural and functional insights into S-thiolation of human serum albumins. Scientific Reports, 2018, 8, 932.	3.3	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. Free Radical Biology and Medicine, 2018, 124, 12-20.	2.9	5
33	An open sandwich immunoassay for detection of 13(R,S)-hydroxy-9(E),11(E)-octadecadienoic acid. Analyst, The, 2017, 142, 787-793.	3.5	16
34	Roles of 5â€lipoxygenase and cyclooxygenaseâ€2 in the biosynthesis of hemiketals E ₂ and D ₂ by activated human leukocytes. FASEB Journal, 2017, 31, 1867-1878.	0.5	17
35	Adductome-based identification of biomarkers for lipid peroxidation. Journal of Biological Chemistry, 2017, 292, 8223-8235.	3.4	17
36	Oxidative metabolism of curcumin-glucuronide by peroxidases and isolated human leukocytes. Biochemical Pharmacology, 2017, 132, 143-149.	4.4	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. Journal of Biological Chemistry, 2017, 292, 3016-3028.	3.4	54
38	Lipid radicals cause light-induced retinal degeneration. Chemical Communications, 2017, 53, 10922-10925.	4.1	12
39	Disruption of the structural and functional features of surfactant protein A by acrolein in cigarette smoke. Scientific Reports, 2017, 7, 8304.	3.3	15
40	Identification of Polyphenol-Specific Innate Epitopes That Originated from a Resveratrol Analogue. Biochemistry, 2017, 56, 4701-4712.	2.5	12
41	De Novo Synthesis of Possible Candidates for the Inagami–Tamura Endogenous Digitalis-like Factor. Journal of Organic Chemistry, 2017, 82, 9097-9111.	3.2	11
42	Oxidative Deamination of Serum Albumins by (-)-Epigallocatechin-3-O-Gallate: A Potential Mechanism for the Formation of Innate Antigens by Antioxidants. PLoS ONE, 2016, 11, e0153002.	2.5	26
43	Identification of a prostaglandin D2 metabolite as a neuritogenesis enhancer targeting the TRPV1 ion channel. Scientific Reports, 2016, 6, 21261.	3.3	18
44	Identification of lactate dehydrogenase as a mammalian pyrroloquinoline quinone (PQQ)-binding protein. Scientific Reports, 2016, 6, 26723.	3.3	46
45	Identification of C1q as a Binding Protein for Advanced Glycation End Products. Biochemistry, 2016, 55, 435-446.	2.5	31
46	Functional interaction between cyclooxygenase-2 and p53 in response to an endogenous electrophile. Redox Biology, 2015, 4, 74-86.	9.0	9
47	15-Deoxy-Δ12,14-prostaglandin J2 as an electrophilic mediator. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1044-1049.	1.3	27
48	Production of natural IgM antibodies against oxidatively-modified proteins in milk fat globule epidermal growth factor 8 (MFG-E8) deficient mice. Free Radical Biology and Medicine, 2014, 75, S26.	2.9	1
49	15-deoxy-?12,14-prostaglandin J2 as a potential TRPV1-dependent atopic dermatitis enhancer. Free Radical Biology and Medicine, 2014, 75, S49.	2.9	3
50	Toll-like Receptors as a Target of Food-derived Anti-inflammatory Compounds. Journal of Biological Chemistry, 2014, 289, 32757-32772.	3.4	47
51	Lysine pyrrolation is a naturally-occurring covalent modification involved in the production of DNA mimic proteins. Scientific Reports, 2014, 4, 5343.	3.3	20
52	Early Increase in Alveolar Macrophage Prostaglandin 15d-PGJ2 Precedes Neutrophil Recruitment into Lungs of Cytokine-Insufflated Rats. Inflammation, 2013, 36, 1030-1040.	3.8	9
53	Multispecificity of Immunoglobulin M Antibodies Raised against Advanced Glycation End Products. Journal of Biological Chemistry, 2013, 288, 13204-13214.	3.4	27
54	An Apoptosis-Associated Mammary Protein Deficiency Leads to Enhanced Production of IgM Antibodies against Multiple Damage-Associated Molecules. PLoS ONE, 2013, 8, e68468.	2.5	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. Nihon EiyŕShokuryŕGakkai Shi = Nippon EiyŕShokuryŕ Gakkaishi = Journal of Japanese Society of Nutrition and Food Science, 2013, 66, 293-300.	0.2	0
56	Identification of 4-hydroxy-2-nonenal–histidine adducts that serve as ligands for human lectin-like oxidized LDL receptor-1. Biochemical Journal, 2012, 442, 171-180.	3.7	33
57	Quantitative Analysis of Acrolein-Specific Adducts Generated during Lipid Peroxidation–Modification of Proteins <i>in Vitro</i> : Identification of <i>N</i> ^{Ï,,} -(3-Propanal)histidine as the Major Adduct. Chemical Research in Toxicology, 2012, 25, 1384-1392.	3.3	40
58	Hydrogen sulfide anion regulates redox signaling via electrophile sulfhydration. Nature Chemical Biology, 2012, 8, 714-724.	8.0	274
59	Monoclonal Antibody against Protein-Bound Glutathione: Use of Glutathione Conjugate of Acrolein-Modified Proteins as an Immunogen. Chemical Research in Toxicology, 2012, 25, 1393-1401.	3.3	5
60	Constitutive expression of an antioxidant enzyme, glutathione S-transferase P1, during differentiation of human intestinal Caco-2 cells. Free Radical Biology and Medicine, 2012, 53, 347-356.	2.9	8
61	A method for detection of 4-hydroxy-2-nonenal adducts in proteins. Free Radical Biology and Medicine, 2011, 51, 1-4.	2.9	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. Journal of Biological Chemistry, 2011, 286, 29313-29324.	3.4	28
63	Transthiocarbamoylation of Proteins by Thiolated Isothiocyanates*. Journal of Biological Chemistry, 2011, 286, 42150-42161.	3.4	45
64	Lipid Peroxidation Modification of Protein Generates Nïµ-(4-Oxononanoyl)lysine as a Pro-inflammatory Ligand. Journal of Biological Chemistry, 2011, 286, 19943-19957.	3.4	31
65	N-Formylethylation in Oxidized LDL. Free Radical Biology and Medicine, 2010, 49, S173.	2.9	0
66	Pertussis Toxin Up-regulates Angiotensin Type 1 Receptors through Toll-like Receptor 4-mediated Rac Activation. Journal of Biological Chemistry, 2010, 285, 15268-15277.	3.4	32
67	Lipid Peroxidation Generates Body Odor Component trans-2-Nonenal Covalently Bound to Protein in Vivo. Journal of Biological Chemistry, 2010, 285, 15302-15313.	3.4	60
68	Identification of a Lipid Peroxidation Product as the Source of Oxidation-specific Epitopes Recognized by Anti-DNA Autoantibodies*. Journal of Biological Chemistry, 2010, 285, 33834-33842.	3.4	34
69	Δ ¹² -Prostaglandin J ₂ as a Product and Ligand of Human Serum Albumin: Formation of an Unusual Covalent Adduct at His146. Journal of the American Chemical Society, 2010, 132, 824-832.	13.7	62
70	Alteration of biochemical and pathological properties of TDP-43 protein by a lipid mediator, 15-deoxy-Δ12,14-prostaglandin J2. Experimental Neurology, 2010, 222, 296-303.	4.1	15
71	Stereochemical Configuration of 4-Hydroxy-2-nonenal-Cysteine Adducts and Their Stereoselective Formation in a Redox-regulated Protein. Journal of Biological Chemistry, 2009, 284, 28810-28822.	3.4	45
72	Astaxanthin inhibits reactive oxygen species-mediated cellular toxicity in dopaminergic SH-SY5Y cells via mitochondria-targeted protective mechanism. Brain Research, 2009, 1254, 18-27.	2.2	131

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73	Identification of Advanced Reaction Products Originating from the Initial 4-Oxo-2-nonenal-cysteine Michael Adducts. Chemical Research in Toxicology, 2009, 22, 957-964.	3.3	28
74	Immunohistochemical Detection of 13(R)-hydroxyoctadecadienoic Acid in Atherosclerotic Plaques of Human Carotid Arteries Using a Novel Specific Antibody. Acta Histochemica Et Cytochemica, 2009, 42, 197-203.	1.6	14
75	A foodâ€derived synergist of NGF signaling: identification of protein tyrosine phosphatase 1B as a key regulator of NGF receptorâ€initiated signal transduction. Journal of Neurochemistry, 2008, 107, 1248-1260.	3.9	27
76	Keap1 Regulates the Constitutive Expression of GST A1 during Differentiation of Caco-2 Cells. Biochemistry, 2008, 47, 6169-6177.	2.5	18
77	15-Deoxy-Δ ^{12,14} -prostaglandin J ₂ : An Electrophilic Trigger of Cellular Responses. Chemical Research in Toxicology, 2008, 21, 138-144.	3.3	137
78	Protein <i>N</i> -Acylation: H ₂ O ₂ -Mediated Covalent Modification of Protein by Lipid Peroxidation-Derived Saturated Aldehydes. Chemical Research in Toxicology, 2008, 21, 1261-1270.	3.3	25
79	DHA Hydroperoxides as a Potential Inducer of Neuronal Cell Death: a Mitochondrial Dysfunction-Mediated Pathway. Journal of Clinical Biochemistry and Nutrition, 2008, 43, 26-33.	1.4	31
80	Molecular characterization of TRPA1 channel activation by cysteine-reactive inflammatory mediators. Channels, 2008, 2, 287-298.	2.8	215
81	Identification of a Serum Component That Regulates Cyclooxygenase-2 Gene Expression in Cooperation with 4-Hydroxy-2-nonenal. Journal of Biological Chemistry, 2007, 282, 24166-24174.	3.4	20
82	Protein-bound 4-Hydroxy-2-nonenal. Journal of Biological Chemistry, 2007, 282, 25769-25778.	3.4	45
83	Dose-Dependent Differential Regulation of Cytokine Secretion from Macrophages by Fractalkine. Journal of Immunology, 2007, 179, 7478-7487.	0.8	49
84	ldentification of Actin as a 15-Deoxy-Δ12,14-prostaglandin J2Target in Neuroblastoma Cells: Mass Spectrometric, Computational, and Functional Approaches To Investigate the Effect on Cytoskeletal Derangementâ€. Biochemistry, 2007, 46, 2707-2718.	2.5	73
85	Prostaglandins from a Zoanthid: Paclitaxel-Like Neurite-Degenerating and Microtubule-Stabilizating Activities. Bioscience, Biotechnology and Biochemistry, 2006, 70, 706-711.	1.3	11
86	Oxidative and Electrophilic Stresses Activate Nrf2 through Inhibition of Ubiquitination Activity of Keap1. Molecular and Cellular Biology, 2006, 26, 221-229.	2.3	775
87	Ebselen, a Seleno-organic Antioxidant, as an Electrophile. Chemical Research in Toxicology, 2006, 19, 1196-1204.	3.3	135
88	Metal-Catalyzed Oxidation of Protein-Bound Dopamine. Biochemistry, 2006, 45, 15120-15128.	2.5	48
89	Polymer-Assisted Solution-Phase Synthesis and Neurite-Outgrowth-Promoting Activity of 15-Deoxy-Δ12,14-PGJ2 Derivatives. Chemistry - an Asian Journal, 2006, 1, 669-677.	3.3	17
90	Granulatosideâ€A, a Starfish Steroid Glycoside, Enhances PC12 Cell Neuritogenesis Induced by Nerve Growth Factor through an Activation of MAP Kinase. ChemMedChem, 2006, 1, 1351-1354.	3.2	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.	7.1	29
92	Identification of a Lipid Peroxidation Product as a Potential Trigger of the p53 Pathway. Journal of Biological Chemistry, 2006, 281, 1196-1204.	3.4	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.	3.4	198
95	Transcription Factor Nrf2 Regulates Inflammation by Mediating the Effect of 15-Deoxy-Δ 12,14 -Prostaglandin J 2. Molecular and Cellular Biology, 2004, 24, 36-45.	2.3	383
96	An Endogenous Electrophile that Modulates the Regulatory Mechanism of Protein Turnover: Inhibitory Effects of 15-Deoxy-Δ12,14-prostaglandin J2 on Proteasome. Biochemistry, 2003, 42, 13960-13968.	2.5	55
97	Thioredoxin as a Molecular Target of Cyclopentenone Prostaglandins. Journal of Biological Chemistry, 2003, 278, 26046-26054.	3.4	146
98	15-Deoxy-Â12,14-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.	7.1	171
99	15-Deoxy-Δ12,14-prostaglandin J2. Journal of Biological Chemistry, 2002, 277, 10459-10466.	3.4	361