

Yuichiro Higashimoto

List of Publications by Year in descending order

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90
papers

6,893
citations

109137

35
h-index

58464

82
g-index

90
all docs

90
docs citations

90
times ranked

8658
citing authors

#	ARTICLE	IF	CITATIONS
1	PML regulates p53 acetylation and premature senescence induced by oncogenic Ras. <i>Nature</i> , 2000, 406, 207-210.	13.7	761
2	Homeodomain-interacting protein kinase-2 phosphorylates p53 at Ser 46 and mediates apoptosis. <i>Nature Cell Biology</i> , 2002, 4, 11-19.	4.6	636
3	MDM2-mediated deacetylation of p53 is required for its degradation. <i>EMBO Journal</i> , 2002, 21, 6236-6245.	3.5	510
4	Initiation of a G2/M checkpoint after ultraviolet radiation requires p38 kinase. <i>Nature</i> , 2001, 411, 102-107.	13.7	489
5	Nitric oxide-induced cellular stress and p53 activation in chronic inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 143-148.	3.3	343
6	Damage-mediated Phosphorylation of Human p53 Threonine 18 through a Cascade Mediated by a Casein 1-like Kinase. <i>Journal of Biological Chemistry</i> , 2000, 275, 9278-9283.	1.6	257
7	A Rational Strategy to Design Multiepitope Immunogens Based on Multiple Th Lymphocyte Epitopes. <i>Journal of Immunology</i> , 2002, 168, 5499-5506.	0.4	252
8	ATM Mediates Phosphorylation at Multiple p53 Sites, Including Ser46, in Response to Ionizing Radiation. <i>Journal of Biological Chemistry</i> , 2002, 277, 12491-12494.	1.6	239
9	Characterization of rat heme oxygenase-3 gene. Implication of processed pseudogenes derived from heme oxygenase-2 gene. <i>Gene</i> , 2004, 336, 241-250.	1.0	228
10	A urokinase-sensitive region of the human urokinase receptor is responsible for its chemotactic activity. <i>EMBO Journal</i> , 1997, 16, 7279-7286.	3.5	210
11	Phosphorylation Site Interdependence of Human p53 Post-translational Modifications in Response to Stress. <i>Journal of Biological Chemistry</i> , 2003, 278, 37536-37544.	1.6	209
12	p29ING4 and p28ING5 bind to p53 and p300, and enhance p53 activity. <i>Cancer Research</i> , 2003, 63, 2373-8.	0.4	198
13	Dual phosphorylation controls Cdc25 phosphatases and mitotic entry. <i>Nature Cell Biology</i> , 2003, 5, 545-551.	4.6	162
14	Proteomic Analysis of Early Melanosomes: Identification of Novel Melanosomal Proteins. <i>Journal of Proteome Research</i> , 2003, 2, 69-79.	1.8	147
15	Advanced glycation end products evoke endothelial cell damage by stimulating soluble dipeptidyl peptidase-4 production and its interaction with mannose 6-phosphate/insulin-like growth factor II receptor. <i>Cardiovascular Diabetology</i> , 2013, 12, 125.	2.7	142
16	Human p53 Is Phosphorylated on Serines 6 and 9 in Response to DNA Damage-inducing Agents. <i>Journal of Biological Chemistry</i> , 2000, 275, 23199-23203.	1.6	108
17	Binding Specificity of Multiprotein Signaling Complexes Is Determined by Both Cooperative Interactions and Affinity Preferences. <i>Biochemistry</i> , 2004, 43, 4170-4178.	1.2	105
18	Identification and Antigenicity of Broadly Cross-Reactive and Conserved Human Immunodeficiency Virus Type 1-Derived Helper T-Lymphocyte Epitopes. <i>Journal of Virology</i> , 2001, 75, 4195-4207.	1.5	104

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19	A novel secreted protease from <i>Pseudomonas aeruginosa</i> activates NF- κ B through protease-activated receptors. <i>Cellular Microbiology</i> , 2008, 10, 1491-1504.	1.1	98
20	RAGE-Aptamer Blocks the Development and Progression of Experimental Diabetic Nephropathy. <i>Diabetes</i> , 2017, 66, 1683-1695.	0.3	91
21	Glyceraldehyde-derived pyridinium (GLAP) evokes oxidative stress and inflammatory and thrombogenic reactions in endothelial cells via the interaction with RAGE. <i>Cardiovascular Diabetology</i> , 2015, 14, 1.	2.7	87
22	Ovalbumin in Developing Chicken Eggs Migrates from Egg White to Embryonic Organs while Changing Its Conformation and Thermal Stability. <i>Journal of Biological Chemistry</i> , 1999, 274, 11030-11037.	1.6	82
23	Calcium-dependent Interaction of S100B with the C-terminal Domain of the Tumor Suppressor p53. <i>Journal of Biological Chemistry</i> , 1999, 274, 10539-10544.	1.6	73
24	DNA Aptamer Raised Against AGEs Blocks the Progression of Experimental Diabetic Nephropathy. <i>Diabetes</i> , 2013, 62, 3241-3250.	0.3	72
25	Structural basis for the electron transfer from an open form of NADPH-cytochrome P450 oxidoreductase to heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2524-2529.	3.3	70
26	Multiepitope Trojan Antigen Peptide Vaccines for the Induction of Antitumor CTL and Th Immune Responses. <i>Journal of Immunology</i> , 2004, 172, 4575-4582.	0.4	67
27	Unfolding, Aggregation, and Amyloid Formation by the Tetramerization Domain from Mutant p53 Associated with Lung Cancer. <i>Biochemistry</i> , 2006, 45, 1608-1619.	1.2	67
28	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Heme Bound to Azide. <i>Journal of Biological Chemistry</i> , 2002, 277, 45086-45090.	1.6	63
29	The isoflavonoids genistein and quercetin activate different stress signaling pathways as shown by analysis of site-specific phosphorylation of ATM, p53 and histone H2AX. <i>DNA Repair</i> , 2004, 3, 235-244.	1.3	62
30	TAP-Independent Presentation of CTL Epitopes by Trojan Antigens. <i>Journal of Immunology</i> , 2001, 166, 7063-7071.	0.4	54
31	Multiple <i>Chlamydia pneumoniae</i> Antigens Prime CD8+ Tc1 Responses That Inhibit Intracellular Growth of This Vacuolar Pathogen. <i>Journal of Immunology</i> , 2002, 169, 2524-2535.	0.4	54
32	Crystal Structure of Rat Heme Oxygenase-1 in Complex with Biliverdin-Iron Chelate. <i>Journal of Biological Chemistry</i> , 2003, 278, 32352-32358.	1.6	52
33	Involvement of NADP(H) in the Interaction between Heme Oxygenase-1 and Cytochrome P450 Reductase. <i>Journal of Biological Chemistry</i> , 2005, 280, 729-737.	1.6	39
34	DNA aptamer raised against advanced glycation end products inhibits melanoma growth in nude mice. <i>Laboratory Investigation</i> , 2014, 94, 422-429.	1.7	39
35	Blockade by phosphorothioate aptamers of advanced glycation end products-induced damage in cultured pericytes and endothelial cells. <i>Microvascular Research</i> , 2013, 90, 64-70.	1.1	37
36	Structure-Function Relationship of Model Aib-Containing Peptides as Ion Transfer Intermembrane Templates. <i>Journal of Biochemistry</i> , 1999, 125, 705-712.	0.9	32

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37	Caveolin-1 Is a Competitive Inhibitor of Heme Oxygenase-1 (HO-1) with Heme: Identification of a Minimum Sequence in Caveolin-1 for Binding to HO-1. <i>Biochemistry</i> , 2011, 50, 6824-6831.	1.2	31
38	X-ray Crystallographic and Biochemical Characterization of the Inhibitory Action of an Imidazole-Dioxolane Compound on Heme Oxygenase. <i>Biochemistry</i> , 2007, 46, 1860-1867.	1.2	29
39	Methylglyoxal-derived hydroimidazolone-1 evokes inflammatory reactions in endothelial cells via an interaction with receptor for advanced glycation end products. <i>Diabetes and Vascular Disease Research</i> , 2017, 14, 450-453.	0.9	27
40	RAGE-aptamer Attenuates the Growth and Liver Metastasis of Malignant Melanoma in Nude Mice. <i>Molecular Medicine</i> , 2017, 23, 295-306.	1.9	27
41	Inactivation of HIV-1 Nucleocapsid Protein P7 by Pyridinioalkanoyl Thioesters. <i>Journal of Biological Chemistry</i> , 2000, 275, 14890-14897.	1.6	25
42	In vitro selection of DNA aptamers that block toxic effects of AGE on cultured retinal pericytes. <i>Microvascular Research</i> , 2007, 74, 65-69.	1.1	25
43	RAGE-aptamer attenuates deoxycorticosterone acetate/salt-induced renal injury in mice. <i>Scientific Reports</i> , 2018, 8, 2686.	1.6	24
44	Crucial role of RAGE in inappropriate increase of smooth muscle cells from patients with pulmonary arterial hypertension. <i>PLoS ONE</i> , 2018, 13, e0203046.	1.1	23
45	EprS, an autotransporter protein of <i>Pseudomonas aeruginosa</i> , possessing serine protease activity induces inflammatory responses through protease-activated receptors. <i>Cellular Microbiology</i> , 2013, 15, 1168-1181.	1.1	21
46	Development of a heme sensor using fluorescently labeled heme oxygenase-1. <i>Analytical Biochemistry</i> , 2013, 433, 2-9.	1.1	19
47	Phytochemicals Against Advanced Glycation End Products (AGEs) and the Receptor System. <i>Current Pharmaceutical Design</i> , 2017, 23, 1135-1141.	0.9	19
48	The Reactions of Heme- and Verdoheme-Heme Oxygenase-1 Complexes with FMN-depleted NADPH-cytochrome P450 Reductase. <i>Journal of Biological Chemistry</i> , 2006, 281, 31659-31667.	1.6	18
49	Chemical synthesis of phosphorylated peptides of the carboxy-terminal domain of human p53 by a segment condensation method. <i>International Journal of Peptide and Protein Research</i> , 1996, 48, 429-442.	0.1	18
50	Pigment epithelium-derived factor (PEDF) binds to caveolin-1 and inhibits the pro-inflammatory effects of caveolin-1 in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 405-410.	1.0	18
51	Laminin receptor mediates anti-inflammatory and anti-thrombogenic effects of pigment epithelium-derived factor in myeloma cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 847-851.	1.0	18
52	DNA Aptamer Raised Against Advanced Glycation End Products (AGEs) Improves Glycemic Control and Decreases Adipocyte Size in Fructose-Fed Rats by Suppressing AGE-RAGE Axis. <i>Hormone and Metabolic Research</i> , 2015, 47, 253-258.	0.7	18
53	Advanced glycation end products evoke inflammatory reactions in proximal tubular cells via autocrine production of dipeptidyl peptidase-4. <i>Microvascular Research</i> , 2018, 120, 90-93.	1.1	18
54	Crystal structure of rat haem oxygenase-1 in complex with ferrous verdohaem: presence of a hydrogen-bond network on the distal side. <i>Biochemical Journal</i> , 2009, 419, 339-345.	1.7	17

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55	DNA aptamer raised against advanced glycation end products inhibits neointimal hyperplasia in balloon-injured rat carotid arteries. <i>International Journal of Cardiology</i> , 2014, 171, 443-446.	0.8	17
56	Development of a monoclonal antibody-based ELISA system for glyceraldehyde-derived advanced glycation end products. <i>Immunology Letters</i> , 2015, 167, 141-146.	1.1	17
57	N-butanol extracts of <i>Morinda citrifolia</i> suppress advanced glycation end products (AGE)-induced inflammatory reactions in endothelial cells through its anti-oxidative properties. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 137.	3.7	15
58	Mass spectrometric identification of lysine residues of heme oxygenase-1 that are involved in its interaction with NADPH-cytochrome P450 reductase. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 852-858.	1.0	14
59	Modifications on amphiphilicity and cationicity of unnatural amino acid containing peptides for the improvement of antimicrobial activity against pathogenic bacteria. <i>Journal of Peptide Science</i> , 2010, 16, 607-612.	0.8	14
60	A kinetic study of the mechanism of conversion of δ -hydroxyheme to verdoheme while bound to heme oxygenase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 578-583.	1.0	13
61	Protein phosphatase 2A dephosphorylates phosphoserines in nucleocytoplasmic shuttling and secretion of high mobility group box 1. <i>Journal of Biochemistry</i> , 2013, 154, 299-308.	0.9	12
62	DNA Aptamer Raised against Advanced Glycation End Products Prevents Abnormalities in Electroretinograms of Experimental Diabetic Retinopathy. <i>Ophthalmic Research</i> , 2015, 54, 175-180.	1.0	11
63	Fructose causes endothelial cell damage via activation of advanced glycation end productsâ€œreceptor system. <i>Diabetes and Vascular Disease Research</i> , 2019, 16, 556-561.	0.9	11
64	Long-Term Local Injection of RAGE-Aptamer Suppresses the Growth of Malignant Melanoma in Nude Mice. <i>Journal of Oncology</i> , 2019, 2019, 1-10.	0.6	11
65	Purification and Characterization of Human Uroporphyrinogen III Synthase Expressed in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2004, 136, 211-220.	0.9	10
66	Electrochemical reduction of ferrous δ -verdoheme in complex with heme oxygenase-1. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1394-1399.	1.5	10
67	Caveolin-1 interacts with protein phosphatase 5 and modulates its activity in prostate cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 724-728.	1.0	10
68	Side Chain Effect on Ion Channel Characters of Aib Rich Peptides. <i>Journal of Biochemistry</i> , 2001, 130, 749-755.	0.9	9
69	Involvement of Metals in Enzymatic and Nonenzymatic Decomposition of C-Terminal δ -Hydroxyglycine to Amide: An Implication for the Catalytic Role of Enzyme-Bound Zinc in the Peptidylamidoglycolate Lyase Reaction. <i>Biochemistry</i> , 2009, 48, 1654-1662.	1.2	9
70	Reduction of oxaporphyrin ring of CO-bound δ -verdoheme complexed with heme oxygenase-1 by NADPH-cytochrome P450 reductase. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 289-296.	1.5	8
71	Protective Role of PEDF-Derived Synthetic Peptide Against Experimental Diabetic Nephropathy. <i>Hormone and Metabolic Research</i> , 2016, 48, 613-619.	0.7	8
72	Pigment epithelium-derived factor inhibits caveolin-induced interleukin-8 gene expression and proliferation of human prostate cancer cells. <i>Oncology Letters</i> , 2015, 10, 2644-2648.	0.8	6

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73	Hydroxylamine and hydrazine bind directly to the heme iron of the heme heme oxygenase-1 complex. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1223-1228.	1.5	5
74	Phosphorylation of Grb14 BPS domain by GSK-3 correlates with complex forming of Grb14 and insulin receptor. <i>Journal of Biochemistry</i> , 2014, 155, 353-360.	0.9	5
75	C-terminal unfolding of an amyloidogenic β 2-microglobulin fragment: β N6 β 2-microglobulin. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2015, 22, 54-60.	1.4	5
76	Glyceraldehyde-Derived Pyridinium Evokes Renal Tubular Cell Damage via RAGE Interaction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2604.	1.8	5
77	DNA aptamer raised against receptor for advanced glycation end products suppresses renal tubular damage and improves insulin resistance in diabetic mice. <i>Diabetes and Vascular Disease Research</i> , 2021, 18, 147916412199053.	0.9	5
78	Inhibitory effects of RAGE-aptamer on development of monocrotaline-induced pulmonary arterial hypertension in rats. <i>Journal of Cardiology</i> , 2021, 78, 12-16.	0.8	5
79	Improvement of heme oxygenase-1-based heme sensor for quantifying free heme in biological samples. <i>Analytical Biochemistry</i> , 2015, 489, 50-52.	1.1	4
80	Phosphorylation of clustered serine residues in the N-terminus of BPS domain negatively regulates formation of the complex between human Grb14 and insulin receptor. <i>Journal of Biochemistry</i> , 2017, 162, mvx007.	0.9	4
81	Evaluation of <i>in vitro</i> properties of predicted kinases that phosphorylate serine residues within nuclear localization signal 1 of high mobility group box1. <i>Journal of Peptide Science</i> , 2014, 20, 613-617.	0.8	3
82	DNA-Aptamer Raised against Receptor for Advanced Glycation End Products Improves Survival Rate in Septic Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-20.	1.9	3
83	The Reactions of Heme- and Verdoheme-Heme Oxygenase-1 Complexes with FMN-depleted NADPH-cytochrome P450 Reductase. <i>Journal of Biological Chemistry</i> , 2006, 281, 31659-31667.	1.6	3
84	An improved anion-exchange high-performance liquid chromatography method for measuring oxidized form of LDLs in human plasma. <i>Annals of Clinical Biochemistry</i> , 2010, 47, 460-466.	0.8	2
85	Selection of DNA Aptamer That Blocks the Fibrillogenesis of a Proteolytic Amyloidogenic Fragment of β 2-m. <i>Therapeutic Apheresis and Dialysis</i> , 2018, 22, 61-66.	0.4	2
86	Erythropoiesis stimulating agents are associated with serum fibroblast growth factor 23 metabolism in patients on hemodialysis. <i>CKJ: Clinical Kidney Journal</i> , 2021, 14, 943-949.	1.4	2
87	Amyloid β 2-Microglobulin. <i>Journal of Clinical & Experimental Nephrology</i> , 2018, 03, .	0.1	1
88	Complex Formation of Heme Oxygenase-2 with Heme Is Competitively Inhibited by the Cytosolic Domain of Caveolin-1. <i>Biochemistry</i> , 2021, 60, 2300-2308.	1.2	0
89	Identification of Conserved HIV-1-Derived Helper T Lymphocyte Epitopes Using Synthetic Peptides and High Throughput Binding Assays. , 2001, , 1039-1040.		0
90	Influence of heparin molecular size on the induction of C-terminal unfolding in β 2-microglobulin. <i>Molecular Biology Research Communications</i> , 2016, 5, 225-232.	0.2	0