

Hidenari Takahara

List of Publications by Year in descending order

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98
papers

3,354
citations

147566

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155451

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Peptidyl arginine deiminase type 2 (PAD α 2) and PAD α 4 but not PAD α 1, PAD α 3, and PAD α 6 are expressed in rheumatoid arthritis synovium in close association with tissue inflammation. <i>Arthritis and Rheumatism</i> , 2007, 56, 3541-3553.	6.7	328
2	Comparative analysis of the mouse and human peptidylarginine deiminase gene clusters reveals highly conserved non-coding segments and a new human gene, PADI6. <i>Gene</i> , 2004, 330, 19-27.	1.0	177
3	Caspase-14 Is Required for Filaggrin Degradation to Natural Moisturizing Factors in the Skin. <i>Journal of Investigative Dermatology</i> , 2011, 131, 2233-2241.	0.3	167
4	Substrate Specificity and Kinetic Studies of PADs 1, 3, and 4 Identify Potent and Selective Inhibitors of Protein Arginine Deiminase 3. <i>Biochemistry</i> , 2010, 49, 4852-4863.	1.2	158
5	Neutral Cysteine Protease Bleomycin Hydrolase Is Essential for the Breakdown of Deiminated Filaggrin into Amino Acids. <i>Journal of Biological Chemistry</i> , 2009, 284, 12829-12836.	1.6	150
6	Peptidylarginine Deiminase Isoforms 1 α -3 Are Expressed in the Epidermis and Involved in the Deimination of K1 and Filaggrin. <i>Journal of Investigative Dermatology</i> , 2005, 124, 384-393.	0.3	135
7	Human Peptidylarginine Deiminase Type III: Molecular Cloning and Nucleotide Sequence of the cDNA, Properties of the Recombinant Enzyme, and Immunohistochemical Localization in Human Skin. <i>Journal of Investigative Dermatology</i> , 2000, 115, 813-823.	0.3	121
8	Proteomics Implicates Peptidyl Arginine Deiminase 2 and Optic Nerve Citrullination in Glaucoma Pathogenesis. , 2006, 47, 2508.		106
9	Stimulation of human keratinocyte growth by alginate oligosaccharides, a possible co-factor for epidermal growth factor in cell culture. <i>FEBS Letters</i> , 1997, 408, 43-46.	1.3	102
10	Three Types of Mouse Peptidylarginine Deiminase: Characterization and Tissue Distribution1. <i>Journal of Biochemistry</i> , 1991, 110, 661-666.	0.9	95
11	Molecular characterization of a novel soybean gene encoding a neutral PR-5 protein induced by high-salt stress. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 73-79.	2.8	82
12	Molecular cloning of cDNAs of mouse peptidylarginine deiminase type I, type III and type IV, and the expression pattern of type I in mouse. <i>FEBS Journal</i> , 2001, 259, 660-669.	0.2	70
13	Deimination of Human Filaggrin-2 Promotes Its Proteolysis by Calpain 1. <i>Journal of Biological Chemistry</i> , 2011, 286, 23222-23233.	1.6	70
14	Identification of N ϵ -carboxymethylarginine as a novel acid-labile advanced glycation end product in collagen. <i>Biochemical Journal</i> , 2000, 347, 23-27.	1.7	65
15	Estrogen-Enhanced Peptidylarginine Deiminase Type IV Gene (PADI4) Expression in MCF-7 Cells Is Mediated by Estrogen Receptor- α -Promoted Transfactors Activator Protein-1, Nuclear Factor- κ B, and Sp1. <i>Molecular Endocrinology</i> , 2007, 21, 1617-1629.	3.7	65
16	Purification and Characterization of Peptidylarginine Deiminase from Rabbit Skeletal Muscle. <i>Journal of Biochemistry</i> , 1983, 94, 1945-1953.	0.9	63
17	Specific Citrullination Causes Assembly of a Globular S100A3 Homotetramer. <i>Journal of Biological Chemistry</i> , 2008, 283, 5004-5013.	1.6	63
18	S100 and S100 fused-type protein families in epidermal maturation with special focus on S100A3 in mammalian hair cuticles. <i>Biochimie</i> , 2011, 93, 2038-2047.	1.3	53

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19	Lowering relative humidity level increases epidermal protein deimination and drives human filaggrin breakdown. <i>Journal of Dermatological Science</i> , 2017, 86, 106-113.	1.0	53
20	Long-Range Enhancer Associated with Chromatin Looping Allows AP-1 Regulation of the Peptidylarginine Deiminase 3 Gene in Differentiated Keratinocyte. <i>PLoS ONE</i> , 2008, 3, e3408.	1.1	47
21	Deimination and Peptidylarginine Deiminases in Skin Physiology and Diseases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 566.	1.8	45
22	Inhibitory Spectrum of Mouse Contrapsin and α -1-Antitrypsin against Mouse Serine Proteases ¹ . <i>Journal of Biochemistry</i> , 1983, 93, 1411-1419.	0.9	43
23	Transcriptional regulation of peptidylarginine deiminase expression in human keratinocytes. <i>Journal of Dermatological Science</i> , 2009, 53, 2-9.	1.0	43
24	UDP-glucuronic acid:soyasapogenol glucuronosyltransferase involved in saponin biosynthesis in germinating soybean seeds. <i>Planta</i> , 2002, 215, 620-629.	1.6	42
25	Calcium-dependent properties of peptidylarginine deiminase from rabbit skeletal muscle.. <i>Agricultural and Biological Chemistry</i> , 1986, 50, 2899-2904.	0.3	41
26	Regulation of the Expression of Peptidylarginine Deiminase Type II Gene (PADI2) in Human Keratinocytes Involves Sp1 and Sp3 Transcription Factors. <i>Journal of Investigative Dermatology</i> , 2005, 124, 1026-1033.	0.3	41
27	Deimination is regulated at multiple levels including auto-deimination of peptidylarginine deiminases. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 1491-1503.	2.4	41
28	Affinity Chromatography of Peptidylarginine Deiminase from Rabbit Skeletal Muscle on a Column of Soybean Trypsin Inhibitor (Kunitz)-Sephadex. <i>Journal of Biochemistry</i> , 1986, 99, 1417-1424.	0.9	37
29	Water-soluble and water-insoluble glucans produced by <i>Escherichia coli</i> recombinant dextranases from <i>Leuconostoc mesenteroides</i> NRRL B-512F. <i>Carbohydrate Research</i> , 2001, 334, 19-25.	1.1	37
30	NF-Y and Sp1/Sp3 are involved in the transcriptional regulation of the peptidylarginine deiminase type III gene (PADI3) in human keratinocytes. <i>Biochemical Journal</i> , 2006, 397, 449-459.	1.7	35
31	Monomeric Form of Peptidylarginine Deiminase Type I Revealed by X-ray Crystallography and Small-Angle X-ray Scattering. <i>Journal of Molecular Biology</i> , 2016, 428, 3058-3073.	2.0	35
32	Purification and Characterization of Rat Plasma α -1-Antitrypsin. <i>Journal of Biochemistry</i> , 1980, 88, 417-424.	0.9	34
33	Crucial Roles of MZF1 and Sp1 in the Transcriptional Regulation of the Peptidylarginine Deiminase Type I Gene (PADI1) in Human Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2008, 128, 549-557.	0.3	33
34	Modulation of Peptidyl Arginine Deiminase 2 and Implication for Neurodegeneration. <i>Current Eye Research</i> , 2006, 31, 1063-1071.	0.7	32
35	Identification of N ^ε -carboxymethylarginine as a novel acid-labile advanced glycation end product in collagen. <i>Biochemical Journal</i> , 2000, 347, 23.	1.7	31
36	Biosynthesis of Glycogen in <i>Neurospora crassa</i> . <i>Journal of Biochemistry</i> , 1977, 81, 1587-1594.	0.9	30

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37	Comparative studies on the serum levels of .ALPHA.-1-antitrypsin and .ALPHA.-macroglobulin in several mammals.. Tohoku Journal of Experimental Medicine, 1983, 139, 265-270.	0.5	29
38	Molecular cloning and characterization of a novel soybean gene encoding a leucine-zipper-like protein induced to salt stress. Gene, 2005, 356, 135-145.	1.0	28
39	Aggregated Form of Dextranucrases from <i>Leuconostoc mesenteroides</i> NRRL B-512F and Its Constitutive Mutant. Bioscience, Biotechnology and Biochemistry, 1995, 59, 776-780.	0.6	26
40	Refined Crystal Structures of Human Ca ²⁺ /Zn ²⁺ -Binding S100A3 Protein Characterized by Two Disulfide Bridges. Journal of Molecular Biology, 2011, 408, 477-490.	2.0	26
41	Gene Encoding a Dextranucrase-like Protein in <i>Leuconostoc mesenteroides</i> NRRL B-512F. Bioscience, Biotechnology and Biochemistry, 2000, 64, 29-38.	0.6	24
42	Long-Range Enhancer Differentially Regulated by c-Jun and JunD Controls Peptidylarginine Deiminase-3 Gene in Keratinocytes. Journal of Molecular Biology, 2008, 384, 1048-1057.	2.0	24
43	Cloning of cDNA encoding a novel isoform (type IV) of peptidylarginine deiminase from rat epidermis. BBA - Proteins and Proteomics, 1998, 1386, 227-232.	2.1	23
44	Molecular characterization of a novel salt-inducible gene for an OSBP (oxysterol-binding) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,462 Td (p	1.0	23
45	cDNA nucleotide sequence and primary structure of mouse uterine peptidylarginine deiminase. Detection of a 3'-untranslated nucleotide sequence common to the mRNA of transiently expressed genes and rapid turnover of this enzyme's mRNA in the estrous cycle. FEBS Journal, 1993, 215, 677-685.	0.2	22
46	Cloning of two cysteine proteinase genes, CysP1 and CysP2, from soybean cotyledons by cDNA representational difference analysis. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1627, 129-139.	2.4	22
47	An Intronic Enhancer Driven by NF- κ B Contributes to Transcriptional Regulation of Peptidylarginine Deiminase Type I Gene in Human Keratinocytes. Journal of Investigative Dermatology, 2010, 130, 2543-2552.	0.3	19
48	Mouse plasma trypsin inhibitors: Inhibitory spectrum of contrapsin and alpha-1-antitrypsin. Thrombosis Research, 1982, 27, 45-50.	0.8	17
49	Deimination of Human Hornerin Enhances its Processing by Calpain-1 and its Cross-Linking by Transglutaminases. Journal of Investigative Dermatology, 2017, 137, 422-429.	0.3	17
50	Endogenous Heterogeneity of Relaxin and Sequence of the Major Form in Pregnant Sow Ovaries. Biological Chemistry Hoppe-Seyler, 1993, 374, 203-210.	1.4	16
51	The Presence of Specific Binding Sites on Boar Spermatozoa for Porcine Relaxin and Its Action on Their Motility Characteristics.. Journal of Reproduction and Development, 2001, 47, 197-204.	0.5	16
52	Activities and properties of peptidylarginine deiminases of several vertebrate brains.. Agricultural and Biological Chemistry, 1986, 50, 1303-1306.	0.3	14
53	Mouse uterus peptidylarginine deiminase is expressed in decidual cells during pregnancy. Journal of Cellular Biochemistry, 1995, 58, 269-278.	1.2	14
54	Peptidylarginine Deiminase Inhibitor Cl-Amidine Attenuates Cornification and Interferes with the Regulation of Autophagy in Reconstructed Human Epidermis. Journal of Investigative Dermatology, 2019, 139, 1889-1897.e4.	0.3	14

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55	The structure of <i>Neurospora crassa</i> glycogen.. <i>Agricultural and Biological Chemistry</i> , 1976, 40, 1699-1703.	0.3	13
56	Human S100A3 tetramerization propagates Ca ²⁺ /Zn ²⁺ binding states. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 1712-1719.	1.9	13
57	Conversion of Peanut Trypsin-Chymotrypsin Inhibitor B-III to a Chymotrypsin Inhibitor by Deimination of the P1 Arginine Residues in Two Reactive Sites1. <i>Journal of Biochemistry</i> , 1987, 101, 1361-1367.	0.9	12
58	Mechanical Stretching Elevates Peptidyl Arginine Deiminase 2 Expression in Astrocytes. <i>Current Eye Research</i> , 2008, 33, 994-1001.	0.7	11
59	Acefylline activates filaggrin deimination by peptidylarginine deiminases in the upper epidermis. <i>Journal of Dermatological Science</i> , 2016, 81, 101-106.	1.0	11
60	Structures of human peptidylarginine deiminase type III provide insights into substrate recognition and inhibitor design. <i>Archives of Biochemistry and Biophysics</i> , 2021, 708, 108911.	1.4	11
61	Biosynthesis of glycogen in <i>Neurospora crassa</i> . Purification and properties of the UDPglucose:Glycogen 4- β -glucosyltransferase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1978, 522, 363-374.	1.4	10
62	Purification and characterization of rat plasma antithrombin III. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 612, 185-194.	1.4	9
63	Crystallization and preliminary X-ray crystallographic analysis of human peptidylarginine deiminase type III. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 668-670.	0.7	9
64	Biosynthesis of Glycogen in <i>Neurospora crassa</i> . <i>Journal of Biochemistry</i> , 1979, 85, 907-914.	0.9	7
65	Comparison of peptidylarginine deiminases of various rabbit tissues.. <i>Agricultural and Biological Chemistry</i> , 1983, 47, 1695-1697.	0.3	7
66	Conformational differences between mouse contrapsin and .ALPHA.-1-antitrypsin as studied by ultraviolet absorption and circular dichroism spectroscopy.. <i>Tohoku Journal of Experimental Medicine</i> , 1984, 142, 261-273.	0.5	7
67	Purification and characterization of NADPH-cytochrome P-450 reductase from rat epidermis. <i>Journal of Cellular Biochemistry</i> , 1993, 53, 206-212.	1.2	7
68	Inhibitory effect of mizoribine on matrix metalloproteinase-1 production in synovial fibroblasts and THP-1 macrophages. <i>Modern Rheumatology</i> , 2005, 15, 264-268.	0.9	6
69	Purification and characterization of three neutral extracellular isoperoxidases from rye leaves. <i>Phytochemistry</i> , 2007, 68, 777-784.	1.4	6
70	Three isozymes of peptidylarginine deiminase in the chicken: Molecular cloning, characterization, and tissue distribution. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 167, 65-73.	0.7	6
71	Purification and Characterization of the Human Cysteine-Rich S100A3 Protein and Its Pseudo Citrullinated Forms Expressed in Insect Cells. <i>Methods in Molecular Biology</i> , 2013, 963, 73-86.	0.4	6
72	The Structure of <i>Neurospora crassa</i> Glycogen. <i>Agricultural and Biological Chemistry</i> , 1976, 40, 1699-1703.	0.3	5

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73	Subcellular location of peptidylarginine deiminase in the mouse brain.. Agricultural and Biological Chemistry, 1987, 51, 1471-1473.	0.3	5
74	Specific modification of an arginine residue in mouse contrapsin by peptidylarginine deiminase altered its inhibitory activities against trypsin and chymotrypsin.. Agricultural and Biological Chemistry, 1987, 51, 1657-1664.	0.3	5
75	Existence and Differential Changes of Peptidylarginine Deiminase Type II in Mouse Yolk-Sac Erythroid Cells. Bioscience, Biotechnology and Biochemistry, 1995, 59, 552-554.	0.6	5
76	Inhibitory effect of mizoribine on matrix metalloproteinase-1 production in synovial fibroblasts and THP-1 macrophages. Modern Rheumatology, 2005, 15, 264-268.	0.9	5
77	Production and Epitope Specificity of Monoclonal Antibody against Mouse Peptidylarginine Deiminase Type II. Bioscience, Biotechnology and Biochemistry, 1994, 58, 2286-2287.	0.6	4
78	Molecular cloning of mouse peptidylarginine deiminase, and its possible isozyme cDNAs.. Agricultural and Biological Chemistry, 1991, 55, 295-297.	0.3	4
79	Biosynthesis of Glycogen in Neurospora crassa Kinetic. Journal of Biochemistry, 1978, 84, 1381-1387.	0.9	3
80	Calcium-dependent Properties of Peptidylarginine Deiminase from Rabbit Skeletal Muscle. Agricultural and Biological Chemistry, 1986, 50, 2899-2904.	0.3	3
81	Specific Modification of an Arginine Residue in Mouse Contrapsin by Peptidylarginine Deiminase Altered Its Inhibitory Activities against Trypsin and Chymotrypsin. Agricultural and Biological Chemistry, 1987, 51, 1657-1664.	0.3	3
82	Role of the arginyl residues of β -casein in micelle formation " Effect of deimination on β -casein complex formation. International Dairy Journal, 1994, 4, 193-204.	1.5	3
83	Molecular Characterization of a Novel Armadillo Repeat-Like Protein Gene Differentially Induced by High-Salt Stress and Dehydration from the Model Legume Lotus Japonicus. Plant Molecular Biology Reporter, 2013, 31, 698-706.	1.0	3
84	Crystallization and preliminary X-ray crystallographic analysis of human peptidylarginine deiminase type I. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 1357-1359.	0.7	3
85	Activities and Properties of Peptidylarginine Deiminases of Several Vertebrate Brains. Agricultural and Biological Chemistry, 1986, 50, 1303-1306.	0.3	1
86	Modification of the functional arginine residue in soybean trypsin inhibitor (Kunitz) by immobilized peptidylarginine deiminase.. Agricultural and Biological Chemistry, 1987, 51, 441-447.	0.3	1
87	Structures and Functions of Peptidylarginine Deiminases. , 2017, , 33-46.		1
88	Inactivation of Taka-amylase A Modified by Chemical Reagents Specific to the Amino Groups.. Journal of Applied Glycoscience (1999), 1999, 46, 449-452.	0.3	1
89	Comparison of Peptidylarginine Deiminases of Various Rabbit Tissue. Agricultural and Biological Chemistry, 1983, 47, 1695-1697.	0.3	0
90	Modification of the Functional Arginine Residue in Soybean Trypsin Inhibitor (Kunitz) by Immobilized Peptidylarginine Deiminase. Agricultural and Biological Chemistry, 1987, 51, 441-447.	0.3	0

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91	Subcellular Location of Peptidylarginine Deiminase in the Mouse Brain. <i>Agricultural and Biological Chemistry</i> , 1987, 51, 1471-1473.	0.3	0
92	Studies on function and use of a novel protein modulating enzyme, peptidylarginine deiminase.. <i>Nippon Nogeikagaku Kaishi</i> , 1990, 64, 1569-1579.	0.0	0
93	Molecular Cloning of Mouse Peptidylarginine Deiminase, and Its Possible Isozyme cDNAs. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 295-297.	0.3	0
94	Proteins Deiminated by Peptidylarginine Deiminase in Mouse Uterus and Their Changes during the Estrous Cycle. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994, 58, 2126-2127.	0.6	0
95	Isolation of Taka-amylase A Peptides Required for Substrate Binding. <i>Bioscience, Biotechnology and Biochemistry</i> , 1997, 61, 1840-1843.	0.6	0
96	Peptidylarginine Deiminases in Skin Biology. <i>Basic and Clinical Dermatology</i> , 2009, , 69-82.	0.1	0
97	Larger Loss of Activity in Taka-amylase A Modified with Starch-dialdehyde than with Dextran-dialdehyde.. <i>Journal of Applied Glycoscience</i> (1999), 1999, 46, 407-412.	0.3	0
98	A History of Deimination Research in Japan: The Founding Fathers. , 2017, , 1-10.		0