

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

55
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100
all docs

100
docs citations

100
times ranked

3003
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Deimination and Peptidylarginine Deiminases in Skin Physiology and Diseases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 566. | 1.8 | 45 |
| 3 | Peptidylarginine Deiminase Inhibitor Cl-Amidine Attenuates Cornification and Interferes with the Regulation of Autophagy in Reconstructed Human Epidermis. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1889-1897.e4. | 0.3 | 14 |
| 4 | 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 |
| 5 | Deimination of Human Hornerin Enhances its Processing by Calpain-1 and its Cross-Linking by Transglutaminases. <i>Journal of Investigative Dermatology</i> , 2017, 137, 422-429. | 0.3 | 17 |
| 6 | Structures and Functions of Peptidylarginine Deiminases. , 2017, , 33-46. | | 1 |
| 7 | A History of Deimination Research in Japan: The Founding Fathers. , 2017, , 1-10. | | 0 |
| 8 | 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 |
| 9 | Acefylline activates filaggrin deimination by peptidylarginine deiminases in the upper epidermis. <i>Journal of Dermatological Science</i> , 2016, 81, 101-106. | 1.0 | 11 |
| 10 | 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 |
| 11 | Molecular Characterization of a Novel Armadillo Repeat-Like Protein Gene Differentially Induced by High-Salt Stress and Dehydration from the Model Legume <i>Lotus Japonicus</i> . <i>Plant Molecular Biology Reporter</i> , 2013, 31, 698-706. | 1.0 | 3 |
| 12 | 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 |
| 13 | Crystallization and preliminary X-ray crystallographic analysis of human peptidylarginine deiminase type I. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1357-1359. | 0.7 | 3 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Refined Crystal Structures of Human Ca ²⁺ /Zn ²⁺ -Binding S100A3 Protein Characterized by Two Disulfide Bridges. <i>Journal of Molecular Biology</i> , 2011, 408, 477-490. | 2.0 | 26 |

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|----|---|-----|-----------|
| 19 | Deimination of Human Filaggrin-2 Promotes Its Proteolysis by Calpain 1. <i>Journal of Biological Chemistry</i> , 2011, 286, 23222-23233. | 1.6 | 70 |
| 20 | 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 |
| 21 | An Intronic Enhancer Driven by NF- κ B Contributes to Transcriptional Regulation of Peptidylarginine Deiminase Type I Gene in Human Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2010, 130, 2543-2552. | 0.3 | 19 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Transcriptional regulation of peptidylarginine deiminase expression in human keratinocytes. <i>Journal of Dermatological Science</i> , 2009, 53, 2-9. | 1.0 | 43 |
| 26 | Peptidylarginine Deiminases in Skin Biology. <i>Basic and Clinical Dermatology</i> , 2009, , 69-82. | 0.1 | 0 |
| 27 | 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 |
| 28 | Long-Range Enhancer Differentially Regulated by c-Jun and JunD Controls Peptidylarginine Deiminase-3 Gene in Keratinocytes. <i>Journal of Molecular Biology</i> , 2008, 384, 1048-1057. | 2.0 | 24 |
| 29 | Molecular characterization of a novel salt-inducible gene for an OSBP (oxysterol-binding) Tj ETQq1 1 0.784314 rgBT Overlock, 10 Tf 50 | 1.0 | 23 |
| 30 | Mechanical Stretching Elevates Peptidyl Arginine Deiminase 2 Expression in Astrocytes. <i>Current Eye Research</i> , 2008, 33, 994-1001. | 0.7 | 11 |
| 31 | Specific Citrullination Causes Assembly of a Globular S100A3 Homotetramer. <i>Journal of Biological Chemistry</i> , 2008, 283, 5004-5013. | 1.6 | 63 |
| 32 | 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 |
| 33 | 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 |
| 34 | Peptidyl arginine deiminase type 2 (PADI2) and PADI4 but not PADI1, PADI3, and PADI6 are expressed in rheumatoid arthritis synovium in close association with tissue inflammation. <i>Arthritis and Rheumatism</i> , 2007, 56, 3541-3553. | 6.7 | 328 |
| 35 | Purification and characterization of three neutral extracellular isoperoxidases from rye leaves. <i>Phytochemistry</i> , 2007, 68, 777-784. | 1.4 | 6 |
| 36 | Modulation of Peptidyl Arginine Deiminase 2 and Implication for Neurodegeneration. <i>Current Eye Research</i> , 2006, 31, 1063-1071. | 0.7 | 32 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Proteomics Implicates Peptidyl Arginine Deiminase 2 and Optic Nerve Citrullination in Glaucoma Pathogenesis. , 2006, 47, 2508. | | 106 |
| 39 | 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 |
| 40 | Peptidylarginine Deiminase Isoforms 1–3 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 |
| 41 | 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 |
| 42 | Molecular cloning and characterization of a novel soybean gene encoding a leucine-zipper-like protein induced to salt stress. <i>Gene</i> , 2005, 356, 135-145. | 1.0 | 28 |
| 43 | 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 | 5 |
| 44 | 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 |
| 45 | Cloning of two cysteine proteinase genes, CysP1 and CysP2, from soybean cotyledons by cDNA representational difference analysis. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2003, 1627, 129-139. | 2.4 | 22 |
| 46 | UDP-glucuronic acid:soyasapogenol glucuronosyltransferase involved in saponin biosynthesis in germinating soybean seeds. <i>Planta</i> , 2002, 215, 620-629. | 1.6 | 42 |
| 47 | The Presence of Specific Binding Sites on Boar Spermatozoa for Porcine Relaxin and Its Action on Their Motility Characteristics.. <i>Journal of Reproduction and Development</i> , 2001, 47, 197-204. | 0.5 | 16 |
| 48 | Water-soluble and water-insoluble glucans produced by Escherichia coli recombinant dextransucrases from Leuconostoc mesenteroides NRRL B-512F. <i>Carbohydrate Research</i> , 2001, 334, 19-25. | 1.1 | 37 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | Gene Encoding a Dextransucrase-like Protein in Leuconostoc mesenteroides NRRL B-512F. <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 29-38. | 0.6 | 24 |
| 54 | Inactivation of Taka-amylase A Modified by Chemical Reagents Specific to the Amino Groups.. <i>Journal of Applied Glycoscience</i> (1999), 1999, 46, 449-452. | 0.3 | 1 |

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|----|---|-----|-----------|
| 55 | Larger Loss of Activity in Taka-amylase A Modified with Starch-dialdehyde than with Dextran-dialdehyde.. Journal of Applied Glycoscience (1999), 1999, 46, 407-412. | 0.3 | 0 |
| 56 | 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 |
| 57 | Isolation of Taka-amylase A Peptides Required for Substrate Binding. Bioscience, Biotechnology and Biochemistry, 1997, 61, 1840-1843. | 0.6 | 0 |
| 58 | Stimulation of human keratinocyte growth by alginate oligosaccharides, a possible co-factor for epidermal growth factor in cell culture. FEBS Letters, 1997, 408, 43-46. | 1.3 | 102 |
| 59 | Mouse uterus peptidylarginine deiminase is expressed in decidual cells during pregnancy. Journal of Cellular Biochemistry, 1995, 58, 269-278. | 1.2 | 14 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Production and Epitope Specificity of Monoclonal Antibody against Mouse Peptidylarginine Deiminase Type II. Bioscience, Biotechnology and Biochemistry, 1994, 58, 2286-2287. | 0.6 | 4 |
| 64 | Proteins Deiminated by Peptidylarginine Deiminase in Mouse Uterus and Their Changes during the Estrous Cycle. Bioscience, Biotechnology and Biochemistry, 1994, 58, 2126-2127. | 0.6 | 0 |
| 65 | Purification and characterization of NADPH-cytochrome P-450 reductase from rat epidermis. Journal of Cellular Biochemistry, 1993, 53, 206-212. | 1.2 | 7 |
| 66 | 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 |
| 67 | 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 |
| 68 | Three Types of Mouse Peptidylarginine Deiminase: Characterization and Tissue Distribution1. Journal of Biochemistry, 1991, 110, 661-666. | 0.9 | 95 |
| 69 | Molecular Cloning of Mouse Peptidylarginine Deiminase, and Its Possible Isozyme cDNAs. Agricultural and Biological Chemistry, 1991, 55, 295-297. | 0.3 | 0 |
| 70 | Molecular cloning of mouse peptidylarginine deiminase, and its possible isozyme cDNAs.. Agricultural and Biological Chemistry, 1991, 55, 295-297. | 0.3 | 4 |
| 71 | Studies on function and use of a novel protein modulating enzyme, peptidylarginine deiminase.. Nippon Noeikagaku Kaishi, 1990, 64, 1569-1579. | 0.0 | 0 |
| 72 | 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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|----|---|-----|-----------|
| 73 | Subcellular Location of Peptidylarginine Deiminase in the Mouse Brain. Agricultural and Biological Chemistry, 1987, 51, 1471-1473. | 0.3 | 0 |
| 74 | Subcellular location of peptidylarginine deiminase in the mouse brain.. Agricultural and Biological Chemistry, 1987, 51, 1471-1473. | 0.3 | 5 |
| 75 | 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 |
| 76 | 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 |
| 77 | Conversion of Peanut Trypsin-Chymotrypsin Inhibitor B-III to a Chymotrypsin Inhibitor by Deimination of the P1 Arginine Residues in Two Reactive Sites1. Journal of Biochemistry, 1987, 101, 1361-1367. | 0.9 | 12 |
| 78 | 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 |
| 79 | Activities and Properties of Peptidylarginine Deiminases of Several Vertebrate Brains. Agricultural and Biological Chemistry, 1986, 50, 1303-1306. | 0.3 | 1 |
| 80 | Calcium-dependent Properties of Peptidylarginine Deiminase from Rabbit Skeletal Muscle. Agricultural and Biological Chemistry, 1986, 50, 2899-2904. | 0.3 | 3 |
| 81 | Activities and properties of peptidylarginine deiminases of several vertebrate brains.. Agricultural and Biological Chemistry, 1986, 50, 1303-1306. | 0.3 | 14 |
| 82 | Affinity Chromatography of Peptidylarginine Deiminase from Rabbit Skeletal Muscle on a Column of Soybean Trypsin Inhibitor (Kunitz)-Sephadex. Journal of Biochemistry, 1986, 99, 1417-1424. | 0.9 | 37 |
| 83 | Calcium-dependent properties of peptidylarginine deiminase from rabbit skeletal muscle.. Agricultural and Biological Chemistry, 1986, 50, 2899-2904. | 0.3 | 41 |
| 84 | Conformational differences between mouse contrapsin and .ALPHA.-1-antitrypsin as studied by ultraviolet absorption and circular dichroism spectroscopy.. Tohoku Journal of Experimental Medicine, 1984, 142, 261-273. | 0.5 | 7 |
| 85 | Comparison of Peptidylarginine Deiminases of Various Rabbit Tissue. Agricultural and Biological Chemistry, 1983, 47, 1695-1697. | 0.3 | 0 |
| 86 | Comparison of peptidylarginine deiminases of various rabbit tissues.. Agricultural and Biological Chemistry, 1983, 47, 1695-1697. | 0.3 | 7 |
| 87 | Inhibitory Spectrum of Mouse Contrapsin and Î±-1-Antitrypsin against Mouse Serine Proteases1. Journal of Biochemistry, 1983, 93, 1411-1419. | 0.9 | 43 |
| 88 | 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 |
| 89 | Purification and Characterization of Peptidylarginine Deiminase from Rabbit Skeletal Muscle. Journal of Biochemistry, 1983, 94, 1945-1953. | 0.9 | 63 |
| 90 | Mouse plasma trypsin inhibitors: Inhibitory spectrum of contrapsin and alpha-1-antitrypsin. Thrombosis Research, 1982, 27, 45-50. | 0.8 | 17 |

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|----|---|-----|-----------|
| 91 | Purification and Characterization of Rat Plasma α -1-Antitrypsin. Journal of Biochemistry, 1980, 88, 417-424. | 0.9 | 34 |
| 92 | Purification and characterization of rat plasma antithrombin III. Biochimica Et Biophysica Acta - Biomembranes, 1980, 612, 185-194. | 1.4 | 9 |
| 93 | Biosynthesis of Glycogen in Neurospora crassa. Journal of Biochemistry, 1979, 85, 907-914. | 0.9 | 7 |
| 94 | Biosynthesis of glycogen in Neurospora crassa. Purification and properties of the UDPglucose:Glycogen 4- α -glucosyltransferase. Biochimica Et Biophysica Acta - Biomembranes, 1978, 522, 363-374. | 1.4 | 10 |
| 95 | Biosynthesis of Glycogen in Neurospora crassa Kinetic. Journal of Biochemistry, 1978, 84, 1381-1387. | 0.9 | 3 |
| 96 | Biosynthesis of Glycogen in Neurospora crassa. Journal of Biochemistry, 1977, 81, 1587-1594. | 0.9 | 30 |
| 97 | The structure of Neurospora crassa glycogen.. Agricultural and Biological Chemistry, 1976, 40, 1699-1703. | 0.3 | 13 |
| 98 | The Structure of Neurospora crassa Glycogen. Agricultural and Biological Chemistry, 1976, 40, 1699-1703. | 0.3 | 5 |