

Takeshi Kawamoto

List of Publications by Year in descending order

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107
papers

7,724
citations

47006

47
h-index

53230

85
g-index

107
all docs

107
docs citations

107
times ranked

6222
citing authors

#	ARTICLE	IF	CITATIONS
1	The Repressed Nuclear Receptor CAR Responds to Phenobarbital in Activating the Human CYP2B6 Gene. <i>Journal of Biological Chemistry</i> , 1999, 274, 6043-6046.	3.4	600
2	Dec1 and Dec2 are regulators of the mammalian molecular clock. <i>Nature</i> , 2002, 419, 841-844.	27.8	588
3	Phenobarbital-Responsive Nuclear Translocation of the Receptor CAR in Induction of the <i>CYP2B6</i> Gene. <i>Molecular and Cellular Biology</i> , 1999, 19, 6318-6322.	2.3	523
4	Signal transduction in the phosphate regulon of <i>Escherichia coli</i> involves phosphotransfer between PhoR and PhoB proteins. <i>Journal of Molecular Biology</i> , 1989, 210, 551-559.	4.2	256
5	Role of steroid 11 beta-hydroxylase and steroid 18-hydroxylase in the biosynthesis of glucocorticoids and mineralocorticoids in humans.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 1458-1462.	7.1	224
6	Identification of Functional Hypoxia Response Elements in the Promoter Region of the DEC1 and DEC2 Genes. <i>Journal of Biological Chemistry</i> , 2002, 277, 47014-47021.	3.4	197
7	Archaeal adaptation to higher temperatures revealed by genomic sequence of <i>Thermoplasma volcanium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14257-14262.	7.1	182
8	Cloning and expression of a cDNA for human cytochrome P-450ald as related to primary aldosteronism. <i>Biochemical and Biophysical Research Communications</i> , 1990, 173, 309-316.	2.1	162
9	DNA Binding of PhoB and its Interaction with RNA Polymerase. <i>Journal of Molecular Biology</i> , 1996, 259, 15-26.	4.2	161
10	Estrogen Activation of the Nuclear Orphan Receptor CAR (Constitutive Active Receptor) in Induction of the Mouse <i>Cyp2b10</i> Gene. <i>Molecular Endocrinology</i> , 2000, 14, 1897-1905.	3.7	153
11	The Peptide Near the C Terminus Regulates Receptor CAR Nuclear Translocation Induced by Xenochemicals in Mouse Liver. <i>Molecular and Cellular Biology</i> , 2001, 21, 2838-2846.	2.3	152
12	Molecular Characterization of the Novel Basic Helix-Loop-Helix Protein DEC1 Expressed in Differentiated Human Embryo Chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 1997, 236, 294-298.	2.1	148
13	Identification of the nuclear receptor CAR:HSP90 complex in mouse liver and recruitment of protein phosphatase 2A in response to phenobarbital. <i>FEBS Letters</i> , 2003, 548, 17-20.	2.8	147
14	Characterization of a cartilage-derived 66-kDa protein (RGD-CAP ¹² ig-h3) that binds to collagen1The nucleotide sequence data reported in this paper will appear in the EMBL, GenBank and DDBJ Nucleotide Sequence Databases under the accession number D55717.1. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997, 1355, 303-314.	4.1	141
15	DEC1 Modulates the Circadian Phase of Clock Gene Expression. <i>Molecular and Cellular Biology</i> , 2008, 28, 4080-4092.	2.3	139
16	Cloning and structural characterization of the human endothelial nitric oxide synthase gene. <i>FEBS Journal</i> , 1994, 223, 719-726.	0.2	138
17	Structural and functional characterization of human aromatase P-450 gene. <i>FEBS Journal</i> , 1990, 193, 559-565.	0.2	120
18	Activation of TGF- β /activin signalling resets the circadian clock through rapid induction of Dec1 transcripts. <i>Nature Cell Biology</i> , 2008, 10, 1463-1469.	10.3	117

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19	Isolation of a full-length cDNA encoding mouse aromatase P450. Archives of Biochemistry and Biophysics, 1991, 285, 231-237.	3.0	112
20	Structural and phylogenetic analyses of RGD-CAP/ β ig-h3, a fasciclin-like adhesion protein expressed in chick chondrocytes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1395, 288-292.	2.4	110
21	Identification of mesenchymal stem cell (MSC) α transcription factors by microarray and knockdown analyses, and signature molecule α marked MSC in bone marrow by immunohistochemistry. Genes To Cells, 2009, 14, 407-424.	1.2	108
22	Differential effects of various growth factors and cytokines on the syntheses of DNA, type I collagen, laminin, fibronectin, osteonectin/secreted protein, acidic and rich in cysteine (SPARC), and alkaline phosphatase by human pulp cells in culture. , 1998, 174, 194-205.		107
23	A novel autofeedback loop of Dec1 transcription involved in circadian rhythm regulation. Biochemical and Biophysical Research Communications, 2004, 313, 117-124.	2.1	104
24	Mesenchymal stem cells ameliorate experimental peritoneal fibrosis by suppressing inflammation and inhibiting TGF- β 1 signaling. Kidney International, 2013, 84, 297-307.	5.2	104
25	Basic Helix-loop-helix Protein DEC1 Promotes Chondrocyte Differentiation at the Early and Terminal Stages. Journal of Biological Chemistry, 2002, 277, 50112-50120.	3.4	99
26	RGD-CAP (β ig-h3) enhances the spreading of chondrocytes and fibroblasts via integrin β 1. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1451, 196-205.	4.1	92
27	Functional analysis of the basic helix-loop-helix transcription factor DEC1 in circadian regulation. Interaction with BMAL1. FEBS Journal, 2004, 271, 4409-4419.	0.2	92
28	Cloning of cDNA and genomic DNA for human cytochrome P-45011 β . FEBS Letters, 1990, 269, 345-349.	2.8	90
29	Congenitally Defective Aldosterone Biosynthesis in Humans: Inactivation of the P450C18 Gene (CYP11B2) Due to Nucleotide Deletion in CMO I-Deficient Patients. Biochemical and Biophysical Research Communications, 1993, 190, 864-869.	2.1	87
30	Expression of the gene for Dec2, a basic helix α loop α helix transcription factor, is regulated by a molecular clock system. Biochemical Journal, 2004, 382, 43-50.	3.7	81
31	Multiple Mechanisms Regulate Circadian Expression of the Gene for Cholesterol 7 α -Hydroxylase (<i>Cyp7a</i>), a Key Enzyme in Hepatic Bile Acid Biosynthesis. Journal of Biological Rhythms, 2007, 22, 299-311.	2.6	81
32	Human mismatch repair gene, MLH1, is transcriptionally repressed by the hypoxia-inducible transcription factors, DEC1 and DEC2. Oncogene, 2008, 27, 4200-4209.	5.9	81
33	DEC1/STRA13/SHARP2 and DEC2/SHARP1 Coordinate Physiological Processes, Including Circadian Rhythms in Response to Environmental Stimuli. Current Topics in Developmental Biology, 2014, 110, 339-372.	2.2	78
34	Basic α Helix α Loop α Helix (bHLH) transcription factor DEC2 negatively regulates vascular endothelial growth factor expression. Genes To Cells, 2008, 13, 131-144.	1.2	74
35	Identification of the human beta-actin enhancer and its binding factor.. Molecular and Cellular Biology, 1988, 8, 267-272.	2.3	71
36	Enhancement of Cell Adhesion and Spreading by a Cartilage-specific Noncollagenous Protein, Cartilage Matrix Protein (CMP/Matrilin-1), via Integrin β 1. Journal of Biological Chemistry, 1999, 274, 11417-11423.	3.4	68

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37	The BHLH transcription factor DEC1 plays an important role in the epithelial-mesenchymal transition of pancreatic cancer. <i>International Journal of Oncology</i> , 2012, 41, 1337-1346.	3.3	68
38	The role of the nuclear receptor CAR as a coordinate regulator of hepatic gene expression in defense against chemical toxicity. <i>Archives of Biochemistry and Biophysics</i> , 2003, 409, 207-211.	3.0	64
39	Effects of Fasting and Re-Feeding on the Expression of Dec1, Per1, and Other Clock-Related Genes. <i>Journal of Biochemistry</i> , 2006, 140, 401-408.	1.7	64
40	Anti-apoptotic effect of the basic helix-loop-helix (bHLH) transcription factor DEC2 in human breast cancer cells. <i>Genes To Cells</i> , 2010, 15, 315-325.	1.2	64
41	Role of chondroitin sulfate-hyaluronan interactions in the viscoelastic properties of extracellular matrices and fluids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1380, 1-9.	2.4	62
42	Effects of Parathyroid Hormone (PTH) and PTH-Related Peptide on Expressions of Matrix Metalloproteinase- 2, -3, and -9 in Growth Plate Chondrocyte Cultures*. <i>Endocrinology</i> , 1998, 139, 2120-2127.	2.8	59
43	Rhythmic expression of DEC1 and DEC2 in peripheral tissues: DEC2 is a potent suppressor for hepatic cytochrome P450s opposing DBP. <i>Genes To Cells</i> , 2004, 9, 317-329.	1.2	59
44	Effects of overexpression of basic helix-loop-helix transcription factor Dec1 on osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>European Journal of Cell Biology</i> , 2006, 85, 423-431.	3.6	54
45	The Basic Helix-Loop-Helix Proteins Differentiated Embryo Chondrocyte (DEC) 1 and DEC2 Function as Corepressors of Retinoid X Receptors. <i>Molecular Pharmacology</i> , 2009, 76, 1360-1369.	2.3	53
46	Congenitally defective aldosterone biosynthesis in humans: The involvement of point mutations of the P-450C18 gene (CYP11B2) in CMO II deficient patients. <i>Biochemical and Biophysical Research Communications</i> , 1992, 182, 974-979.	2.1	52
47	Basic helix-loop-helix transcription factor DEC1 negatively regulates cyclin D1. <i>Journal of Pathology</i> , 2011, 224, 420-429.	4.5	50
48	Estrogen Activation of the Nuclear Orphan Receptor CAR (Constitutive Active Receptor) in Induction of the Mouse Cyp2b10 Gene. <i>Molecular Endocrinology</i> , 2000, 14, 1897-1905.	3.7	50
49	DNA bending and binding factors of the human β -actin promoter. <i>Nucleic Acids Research</i> , 1989, 17, 523-537.	14.5	47
50	Selection of Common Markers for Bone Marrow Stromal Cells from Various Bones Using Real-Time RT-PCR: Effects of Passage Number and Donor Age. <i>Tissue Engineering</i> , 2007, 13, 2405-2417.	4.6	47
51	Tissue-Specific Disruption of Rhythmic Expression of Dec1 and Dec2 in Clock Mutant Mice. <i>Journal of Biological Rhythms</i> , 2005, 20, 404-418.	2.6	44
52	The chimeric gene linked to glucocorticoid-suppressible hyperaldosteronism encodes a fused P-450 protein possessing aldosterone synthase activity. <i>Biochemical and Biophysical Research Communications</i> , 1992, 189, 885-891.	2.1	43
53	Direct Inhibition of Indian Hedgehog Expression by Parathyroid Hormone (PTH)/PTH-Related Peptide and Up-Regulation by Retinoic Acid in Growth Plate Chondrocyte Cultures. <i>Experimental Cell Research</i> , 2001, 265, 64-72.	2.6	42
54	Transcriptional repression by the basic helix-loop-helix protein Dec2: multiple mechanisms through E-box elements. <i>International Journal of Molecular Medicine</i> , 2007, 19, 925-32.	4.0	41

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55	Induction of basic helix-loop-helix protein DEC1 (BHLHB2)/Stra13/Sharp2 in response to the cyclic adenosine monophosphate pathway. <i>European Journal of Cell Biology</i> , 2001, 80, 329-334.	3.6	38
56	Basic helix-loop-helix transcription factors DEC1 and DEC2 regulate the paclitaxel-induced apoptotic pathway of MCF-7 human breast cancer cells. <i>International Journal of Molecular Medicine</i> , 2011, 27, 491-5.	4.0	37
57	Role of MSX1 in Osteogenic Differentiation of Human Dental Pulp Stem Cells. <i>Stem Cells International</i> , 2016, 2016, 1-13.	2.5	37
58	Enhancement of cartilage matrix protein synthesis in arthritic cartilage. <i>Arthritis and Rheumatism</i> , 1997, 40, 1029-1036.	6.7	36
59	Molecular Cloning and Characterization of CDEP, a Novel Human Protein Containing the Ezrin-like Domain of the Band 4.1 Superfamily and the Dbl Homology Domain of Rho Guanine Nucleotide Exchange Factors. <i>Biochemical and Biophysical Research Communications</i> , 1997, 241, 369-375.	2.1	34
60	Membrane-bound transferrin-like protein (MTf): structure, evolution and selective expression during chondrogenic differentiation of mouse embryonic cells. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999, 1447, 258-264.	2.4	33
61	Smad3 and Snail show circadian expression in human gingival fibroblasts, human mesenchymal stem cell, and in mouse liver. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 441-446.	2.1	33
62	Dec1 and CLOCK Regulate Na ⁺ /K ⁺ -ATPase β 1 Subunit Expression and Blood Pressure. <i>Hypertension</i> , 2018, 72, 746-754.	2.7	32
63	Human poly(ADP-ribose) polymerase gene. Cloning of the promoter region. <i>FEBS Journal</i> , 1990, 194, 521-526.	0.2	31
64	Liver X receptors (LXR α and LXR β) are potent regulators for hepatic <i>Dec1</i> expression. <i>Genes To Cells</i> , 2009, 14, 29-40.	1.2	30
65	A nonsense mutation (TGC [Trp116] \rightarrow TAG [Stop]) in CYP11B1 causes steroid 11 beta-hydroxylase deficiency. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1993, 77, 1677-1682.	3.6	30
66	Expression of membrane-bound transferrin-like protein p97 on the cell surface of chondrocytes. <i>FEBS Journal</i> , 1998, 256, 503-509.	0.2	29
67	BHLH transcription factor DEC2 regulates pro-apoptotic factor Bim in human oral cancer HSC-3 cells. <i>Biomedical Research</i> , 2012, 33, 75-82.	0.9	29
68	Gene Structure and Chromosomal Location of a Human bHLH Transcriptional Factor DEC1-Stra13-SHARP-2/BHLHB2. <i>Journal of Biochemistry</i> , 2001, 129, 391-396.	1.7	26
69	The basic helix-loop-helix transcription factor DEC2 inhibits TGF- β 2-induced tumor progression in human pancreatic cancer BxPC-3 cells. <i>International Journal of Molecular Medicine</i> , 2012, 30, 495-501.	4.0	26
70	Dec1 and Dec2 Expression is Disrupted in the Suprachiasmatic Nuclei of Clock Mutant Mice. <i>Journal of Biological Rhythms</i> , 2004, 19, 126-134.	2.6	25
71	Clock Gene Expression in the Submandibular Glands. <i>Journal of Dental Research</i> , 2005, 84, 1193-1197.	5.2	25
72	IL-1 β -mediated up-regulation of DEC1 in human gingiva cells via the Akt pathway. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3246-3253.	2.6	25

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73	Different circadian expression of major matrix-related genes in various types of cartilage: modulation by lightâ€“dark conditions. <i>Journal of Biochemistry</i> , 2013, 154, 373-381.	1.7	24
74	Regulation of basic helixâ€“loopâ€“helix transcription factors <i>Dec1</i> and <i>Dec2</i> by ROR α and their roles in adipogenesis. <i>Genes To Cells</i> , 2012, 17, 109-121.	1.2	22
75	Involvement of c-Myc in the proliferation of MCF-7 human breast cancer cells induced by bHLH transcription factor DEC2. <i>International Journal of Molecular Medicine</i> , 2015, 35, 815-820.	4.0	22
76	Characterization of a cis-acting regulatory element involved in human-aromatase P-450 gene expression. <i>FEBS Journal</i> , 1992, 205, 303-309.	0.2	21
77	Determination of the complete genomic DNA sequence of <i>Thermoplasma volcanium</i> GSS1. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1999, 75, 213-218.	3.8	20
78	Differential regulation of DEC2 among hypoxia-inducible genes in endometrial carcinomas. <i>Oncology Reports</i> , 2007, 17, 871-8.	2.6	20
79	Transcriptional repression by the basic helix-loop-helix protein Dec2: Multiple mechanisms through E-box elements. <i>International Journal of Molecular Medicine</i> , 2007, , .	4.0	18
80	Impact of Zinc Fingers and Homeoboxes 3 on the Regulation of Mesenchymal Stem Cell Osteogenic Differentiation. <i>Stem Cells and Development</i> , 2011, 20, 1539-1547.	2.1	17
81	Basic helix-loop-helix transcription factor DEC1 regulates the cisplatin-induced apoptotic pathway of human esophageal cancer cells. <i>Biomedical Research</i> , 2015, 36, 89-96.	0.9	17
82	Inborn errors of aldosterone biosynthesis in humans. <i>Steroids</i> , 1995, 60, 15-21.	1.8	16
83	Genetic Markers Can Predict Chondrogenic Differentiation Potential in Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2018, 2018, 1-9.	2.5	15
84	Deficiency of the basic helixâ€“loopâ€“helix transcription factor <i>DEC1</i> prevents obesity induced by a high-fat diet in mice. <i>Genes To Cells</i> , 2018, 23, 658-669.	1.2	15
85	DEC1 regulates the rhythmic expression of PPAR α target genes involved in lipid metabolism in white adipose tissue. <i>Genes To Cells</i> , 2020, 25, 232-241.	1.2	15
86	Effects of Parathyroid Hormone (PTH) and PTH-Related Peptide on Expressions of Matrix Metalloproteinase- 2, -3, and -9 in Growth Plate Chondrocyte Cultures. <i>Endocrinology</i> , 1998, 139, 2120-2127.	2.8	15
87	Chondrocyte-derived ezrin-like domain containing protein (CDEP), a rho guanine nucleotide exchange factor, is inducible in chondrocytes by parathyroid hormone and cyclic AMP and has transforming activity in NIH3T3 Cells. <i>Osteoarthritis and Cartilage</i> , 2001, 9, S64-S68.	1.3	14
88	Molecular genetic studies on the biosynthesis of aldosterone in humans. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1992, 43, 981-987.	2.5	12
89	Effects of cyclic adenosine 3',5'-monophosphate on chondrocyte terminal differentiation and cartilage-matrix calcification. <i>Endocrinology</i> , 1996, 137, 122-128.	2.8	12
90	57Arg in the bHLH transcription factor DEC2 is essential for the suppression of CLOCK/BMAL2-mediated transactivation. <i>International Journal of Molecular Medicine</i> , 2006, 17, 1053-6.	4.0	12

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91	Effects of Overexpression of Membrane-bound Transferrin-like Protein (MTf) on Chondrogenic Differentiation in Vitro. <i>Journal of Biological Chemistry</i> , 2002, 277, 48579-48586.	3.4	11
92	Characteristic expression of MSX1, MSX2, TBX2 and ENTPD1 in dental pulp cells. <i>Biomedical Reports</i> , 2015, 3, 566-572.	2.0	11
93	DEC2 is a negative regulator for the proliferation and differentiation of chondrocyte lineage-committed mesenchymal stem cells. <i>International Journal of Molecular Medicine</i> , 2016, 38, 876-884.	4.0	11
94	Rhythmic expression of DEC2 protein in vitro and in vivo. <i>Biomedical Reports</i> , 2016, 4, 704-710.	2.0	11
95	Differential regulation of DEC2 among hypoxia-inducible genes in endometrial carcinomas. <i>Oncology Reports</i> , 2007, 17, 871.	2.6	10
96	Differentiated embryo chondrocyte plays a crucial role in DNA damage response via transcriptional regulation under hypoxic conditions. <i>PLoS ONE</i> , 2018, 13, e0192136.	2.5	9
97	Retinol-Binding Protein Is Produced by Rabbit Chondrocytes and Responds to Parathyroid Hormone (PTH)/PTH-Related Peptide-Cyclic Adenosine Monophosphate Pathway. <i>Endocrinology</i> , 1999, 140, 1075-1081.	2.8	8
98	Identification of a new clock-related element EL-box involved in circadian regulation by BMAL1/CLOCK and HES1. <i>Gene</i> , 2012, 510, 118-125.	2.2	8
99	Study of Alveolar Bone Remodeling Using Deciduous Tooth Stem Cells and Hydroxyapatite by Vascular Endothelial Growth Factor Enhancement and Inhibition of Matrix Metalloproteinase-8 Expression in vivo. <i>Clinical, Cosmetic and Investigational Dentistry</i> , 2022, Volume 14, 71-78.	1.6	7
100	CHRONO and DEC1/DEC2 compensate for lack of CRY1/CRY2 in expression of coherent circadian rhythm but not in generation of circadian oscillation in the neonatal mouse SCN. <i>Scientific Reports</i> , 2021, 11, 19240.	3.3	6
101	The Identification of Marker Genes for Predicting the Osteogenic Differentiation Potential of Mesenchymal Stromal Cells. <i>Current Issues in Molecular Biology</i> , 2021, 43, 2157-2166.	2.4	6
102	Structure and promoter analysis of the mouse membrane-bound transferrin-like protein (MTf) gene. <i>FEBS Journal</i> , 2001, 268, 1468-1476.	0.2	4
103	Potential Marker Genes for Predicting Adipogenic Differentiation of Mesenchymal Stromal Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2942.	2.5	3
104	Retinol-Binding Protein Is Produced by Rabbit Chondrocytes and Responds to Parathyroid Hormone (PTH)/PTH-Related Peptide-Cyclic Adenosine Monophosphate Pathway. <i>Endocrinology</i> , 1999, 140, 1075-1081.	2.8	3
105	57Arg in the bHLH transcription factor DEC2 is essential for the suppression of CLOCK/BMAL2-mediated transactivation. <i>International Journal of Molecular Medicine</i> , 2006, 17, 1053.	4.0	2
106	Nucleotide sequences of the plastid and nuclear chromosome I of the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2002, 78, 299-304.	3.8	1
107	Use of the superiorly-based facial artery musculomucosal flap for defect reconstruction in stage 3 medication-related osteonecrosis of the maxilla: Technical note. <i>Journal of Dental Sciences</i> , 2021, 16, 1305-1307.	2.5	0