

Masato Tamura

List of Publications by Year in descending order

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105
papers

3,099
citations

126858

33
h-index

182361

51
g-index

108
all docs

108
docs citations

108
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	A candidate prostate cancer susceptibility gene encodes tRNA 3' processing endoribonuclease. <i>Nucleic Acids Research</i> , 2003, 31, 2272-2278.	6.5	162
2	Cross-talk between Wnt and Bone Morphogenetic Protein 2 (BMP-2) Signaling in Differentiation Pathway of C2C12 Myoblasts. <i>Journal of Biological Chemistry</i> , 2005, 280, 37660-37668.	1.6	133
3	Wnt signaling inhibits cementoblast differentiation and promotes proliferation. <i>Bone</i> , 2009, 44, 805-812.	1.4	124
4	Modulation of Gene Expression by Human Cytosolic tRNase ZL through 5â€²-Half-tRNA. <i>PLoS ONE</i> , 2009, 4, e5908.	1.1	110
5	Identification of a DNA sequence involved in osteoblast-specific gene expression via interaction with helix-loop-helix (HLH)-type transcription factors.. <i>Journal of Cell Biology</i> , 1994, 126, 773-782.	2.3	88
6	A Novel Endonucleolytic Mechanism to Generate the CCA 3â€² Termini of tRNA Molecules in <i>Thermotoga maritima</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 15688-15697.	1.6	88
7	Crystal Structure of the tRNA 3â€² Processing Endoribonuclease tRNase Z from <i>Thermotoga maritima</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 14138-14144.	1.6	85
8	Effects of growth/differentiation factor-5 on human periodontal ligament cells. <i>Journal of Periodontal Research</i> , 2003, 38, 597-605.	1.4	76
9	Acidic bone matrix proteins and their roles in calcification. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1891.	3.0	74
10	Periodontal ligament cells under intermittent tensile stress regulate mRNA expression of osteoprotegerin and tissue inhibitor of matrix metalloprotease-1 and -2. <i>Journal of Bone and Mineral Metabolism</i> , 2004, 22, 94-103.	1.3	71
11	Sclerostin Enhances Adipocyte Differentiation in 3T3â€²L1 Cells. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 1419-1428.	1.2	71
12	The 3â€² end CCA of mature tRNA is an antideterminant for eukaryotic 3â€²-tRNase. <i>Rna</i> , 1999, 5, 245-256.	1.6	70
13	Bone morphogenetic proteinâ€² enhances Wnt/â€²catenin signalingâ€²-induced osteoprotegerin expression. <i>Genes To Cells</i> , 2009, 14, 141-153.	0.5	67
14	Circulating osteocyte-derived exosomes contain miRNAs which are enriched in exosomes from MLO-Y4 cells. <i>Biomedical Reports</i> , 2017, 6, 223-231.	0.9	63
15	Enhanced Cementum Formation in Experimentally Induced Cementum Defects of the Root Surface with the Application of Recombinant Basic Fibroblast Growth Factor in Collagen Gel In Vivo. <i>Journal of Periodontology</i> , 2004, 75, 243-248.	1.7	62
16	Wnt3a signaling induces murine dental follicle cells to differentiate into cementoblastic/osteoblastic cells via an osterixâ€²dependent pathway. <i>Journal of Periodontal Research</i> , 2016, 51, 164-174.	1.4	59
17	Interleukin-8 gene expression by human dental pulp fibroblast in cultures stimulated with <i>Prevotella intermedia</i> lipopolysaccharide. <i>Journal of Endodontics</i> , 1996, 22, 9-12.	1.4	58
18	Role of the Wnt signaling pathway in bone and tooth. <i>Frontiers in Bioscience - Elite</i> , 2010, E2, 1405-1413.	0.9	54

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19	The N-terminal half-domain of the long form of tRNase Z is required for the RNase 65 activity. <i>Nucleic Acids Research</i> , 2004, 32, 4429-4438.	6.5	52
20	Wnt5a signaling is a substantial constituent in bone morphogenetic protein-2-mediated osteoblastogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 627-632.	1.0	50
21	Regulation of CXCL12 expression by canonical Wnt signaling in bone marrow stromal cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 760-767.	1.2	48
22	Conversion of mammalian tRNA 3' processing endoribonuclease to four-base-recognizing RNA cutters. <i>Nucleic Acids Research</i> , 1995, 23, 3642-3647.	6.5	47
23	Long 5' leaders inhibit removal of a 3' trailer from a precursor tRNA by mammalian tRNA 3' processing endoribonuclease. <i>Nucleic Acids Research</i> , 1999, 27, 2770-2776.	6.5	47
24	Gene silencing by the tRNA maturase tRNase ZL under the direction of small-guide RNA. <i>Gene Therapy</i> , 2007, 14, 78-85.	2.3	46
25	Role of the Wnt signaling molecules in the tooth. <i>Japanese Dental Science Review</i> , 2016, 52, 75-83.	2.0	46
26	Bone morphogenetic protein-2 down-regulates miR-206 expression by blocking its maturation process. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 125-129.	1.0	44
27	Selection of cleavage site by mammalian tRNA 3' processing endoribonuclease. <i>Journal of Molecular Biology</i> , 1999, 287, 727-740.	2.0	42
28	Minimum Requirements for Substrates of Mammalian tRNA 3' Processing Endoribonuclease. <i>Biochemistry</i> , 1999, 38, 12089-12096.	1.2	38
29	Anomalous RNA substrates for mammalian tRNA 3' processing endoribonuclease. <i>FEBS Letters</i> , 2000, 472, 179-186.	1.3	37
30	RNA heptamers that direct RNA cleavage by mammalian tRNA 3' processing endoribonuclease. <i>Nucleic Acids Research</i> , 1998, 26, 2565-2572.	6.5	35
31	Dual Regulatory Effects of Interferon- β , γ , and α on Interleukin-8 Gene Expression by Human Gingival Fibroblasts in Culture upon Stimulation with Lipopolysaccharide from <i>Prevotella intermedia</i> , Interleukin-1 β , or Tumor Necrosis Factor- α . <i>Journal of Dental Research</i> , 1998, 77, 1597-1605.	2.5	35
32	Inhibition of HIV-1 gene expression by retroviral vector-mediated small-guide RNAs that direct specific RNA cleavage by tRNase ZL. <i>Nucleic Acids Research</i> , 2005, 33, 235-243.	6.5	34
33	A novel 4-base-recognizing RNA cutter that can remove the single 3' terminal nucleotides from RNA molecules. <i>Nucleic Acids Research</i> , 2004, 32, e91-e91.	6.5	33
34	Human cytosolic tRNase Z ^L can downregulate gene expression through miRNA. <i>FEBS Letters</i> , 2009, 583, 3241-3246.	1.3	33
35	Regulation of matrix metalloproteinase-13 and tissue inhibitor of matrix metalloproteinase-1 gene expression by WNT3A and bone morphogenetic protein-2 in osteoblastic differentiation. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 1667.	3.0	32
36	Wnt5a attenuates Wnt3a-induced alkaline phosphatase expression in dental follicle cells. <i>Experimental Cell Research</i> , 2015, 336, 85-93.	1.2	31

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37	Identification of DERMO-1 as a member of helix-loop-helix type transcription factors expressed in osteoblastic cells. , 1999, 72, 167-176.		30
38	Intracellular mRNA cleavage by 3' tRNase under the direction of 2'-O-methyl RNA heptamers. Nucleic Acids Research, 2003, 31, 4354-4360.	6.5	29
39	Canonical Wnt signaling activates miR-34 expression during osteoblastic differentiation. Molecular Medicine Reports, 2013, 8, 1807-1811.	1.1	27
40	The T Loop Structure Is Dispensable for Substrate Recognition by tRNase ZL. Journal of Biological Chemistry, 2005, 280, 22326-22334.	1.6	26
41	Establishment of cell lines that exhibit pluripotency from miniature swine periodontal ligaments. Archives of Oral Biology, 2007, 52, 1002-1008.	0.8	25
42	Multipotency of clonal cells derived from swine periodontal ligament and differential regulation by fibroblast growth factor and bone morphogenetic protein. Journal of Periodontal Research, 2009, 44, 238-247.	1.4	25
43	Carrier dependent cell differentiation of bone morphogenetic protein-2 induced osteogenesis and chondrogenesis during the early implantation stage in rats. Journal of Biomedical Materials Research Part B, 2004, 71A, 181-189.	3.0	24
44	Establishment of a novel chondrocyte-like cell line derived from transgenic mice harboring the temperature-sensitive simian virus 40 large T-antigen gene. Journal of Bone and Mineral Research, 1996, 11, 1646-1654.	3.1	24
45	Characterization of the spermidine-dependent, sequence-specific endoribonuclease that requires transfer RNA for its activity. Nucleic Acids Research, 1992, 20, 3737-3742.	6.5	22
46	3' truncated tRNA ^{Arg} essential for in vitro specific cleavage of partially synthesized mouse 18S rRNA. Nucleic Acids Research, 1993, 21, 4696-4702.	6.5	22
47	Hepatocyte growth factor/scatter factor stimulates migration of muscle precursors in developing mouse tongue. Journal of Cellular Physiology, 2004, 201, 236-243.	2.0	22
48	The Suppressive Effect of Enamel Matrix Derivative on Osteocalcin Gene Expression of Osteoblasts Is Neutralized by an Antibody Against TGF- β 2. Journal of Periodontology, 2008, 79, 341-347.	1.7	22
49	Inhibition of vascular endothelial growth factor expression by TRVE gene silencing. Biochemical and Biophysical Research Communications, 2009, 379, 924-927.	1.0	22
50	Hepatocyte growth factor in gingival crevicular fluid and the distribution of hepatocyte growth factor-activator in gingival tissue from adult periodontitis. Archives of Oral Biology, 2002, 47, 655-663.	0.8	21
51	Interleukin-1 β stimulates interstitial collagenase gene expression in human dental pulp fibroblast. Journal of Endodontics, 1996, 22, 240-243.	1.4	20
52	The inhibitory effect of the autoantigen La on in vitro 3 α - ² processing of mammalian precursor tRNAs ¹¹ Edited by M. Belfort. Journal of Molecular Biology, 2001, 312, 975-984.	2.0	20
53	Vascular Cell-Like Potential of Undifferentiated Ligament Fibroblasts to Construct Vascular Cell-Specific Marker-Positive Blood Vessel Structures in a PI3K Activation-Dependent Manner. Journal of Vascular Research, 2010, 47, 369-383.	0.6	20
54	Regulation of osteoblastic differentiation by the proteasome inhibitor bortezomib. Genes To Cells, 2012, 17, 548-558.	0.5	20

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55	Osteocytes as main responders to low-intensity pulsed ultrasound treatment during fracture healing. <i>Scientific Reports</i> , 2021, 11, 10298.	1.6	20
56	The missense mutations in the candidate prostate cancer gene ELAC2 do not alter enzymatic properties of its product. <i>Cancer Letters</i> , 2005, 222, 211-215.	3.2	19
57	FGFR3 down-regulates PTH/PTHrP receptor gene expression by mediating JAK/STAT signaling in chondrocytic cell line. <i>Journal of Electron Microscopy</i> , 2010, 59, 227-236.	0.9	19
58	Scleraxis messenger ribonucleic acid is expressed in C2C12 myoblasts and its level is down-regulated by bone morphogenetic protein-2 (BMP2). <i>Journal of Cellular Biochemistry</i> , 1997, 67, 66-74.	1.2	18
59	Unstructured RNA Is a Substrate for tRNase Z. <i>Biochemistry</i> , 2006, 45, 5486-5492.	1.2	18
60	A naked RNA heptamer targeting the human Bcl-2 mRNA induces apoptosis of HL60 leukemia cells. <i>Cancer Letters</i> , 2013, 328, 362-368.	3.2	18
61	The role of PI3K/Akt/mTOR signaling in dose-dependent biphasic effects of glycine on vascular development. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 596-602.	1.0	18
62	Pleiotrophin Regulates Bone Morphogenetic Protein (BMP)-Induced Ectopic Osteogenesis. <i>Journal of Biochemistry</i> , 2002, 131, 877-886.	0.9	17
63	Induction of apoptosis of leukemic cells by TRUE gene silencing using small guide RNAs targeting the WT1 mRNA. <i>Leukemia Research</i> , 2013, 37, 580-585.	0.4	17
64	Potential Small Guide RNAs for tRNase ZL from Human Plasma, Peripheral Blood Mononuclear Cells, and Cultured Cell Lines. <i>PLoS ONE</i> , 2015, 10, e0118631.	1.1	17
65	Inhibition of neuropeptide Y Y1 receptor induces osteoblast differentiation in MC3T3-E1 cells. <i>Molecular Medicine Reports</i> , 2017, 16, 2779-2784.	1.1	16
66	The structure of the flexible arm of <i>Thermotoga maritima</i> tRNase Z differs from those of homologous enzymes. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 637-641.	0.7	15
67	Glycine exerts dose-dependent biphasic effects on vascular development of zebrafish embryos. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 539-544.	1.0	15
68	Growth Inhibition of Head and Neck Squamous Cell Carcinoma Cells by sgRNA Targeting the Cyclin D1 mRNA Based on TRUE Gene Silencing. <i>PLoS ONE</i> , 2014, 9, e114121.	1.1	15
69	Expanding the utility of heptamer-type sgRNA for TRUE gene silencing. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 427-432.	1.0	13
70	Elimination of Specific miRNAs by Naked 14-nt sgRNAs. <i>PLoS ONE</i> , 2012, 7, e38496.	1.1	13
71	Site-Directed Mutagenesis of the Serotonin 5-Hydroxytryptamine _{2C} Receptor: Identification of Amino Acids Responsible for Sarpogrelate Binding. <i>Biological and Pharmaceutical Bulletin</i> , 2006, 29, 1645-1650.	0.6	12
72	Primary structure of bovine interstitial collagenase deduced from cDNA sequence. <i>DNA Sequence</i> , 1994, 5, 63-66.	0.7	10

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73	Transfer RNA lacking its 3' terminus is required for spermidine-dependent ribonuclease 65 activity in mouse FM3A cell extracts. <i>Biochemical and Biophysical Research Communications</i> , 1991, 178, 1247-1252.	1.0	9
74	Regulation of mRNA Expression of Matrix Extracellular Phosphoglycoprotein (MEPE)/Osteoblast/Osteocyte Factor 45 (OF45) by Fibroblast Growth Factor 2 in Cultures of Rat Bone Marrow-Derived Osteoblastic Cells. <i>Endocrine</i> , 2004, 24, 015-024.	2.2	9
75	The Flexible Arm of tRNase Z Is Not Essential for Pre-tRNA Binding but Affects Cleavage Site Selection. <i>Journal of Molecular Biology</i> , 2008, 381, 289-299.	2.0	9
76	Regulation of neuropeptide Y Y1 receptor expression by bone morphogenetic protein 2 in C2C12 myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 506-510.	1.0	8
77	Screening of a heptamer-type sgRNA library for potential therapeutic agents against hematological malignancies. <i>Leukemia Research</i> , 2014, 38, 808-815.	0.4	8
78	p38 MAP kinase is required for Wnt3a-mediated osterix expression independently of Wnt-LRP5/6-GSK3 β signaling axis in dental follicle cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 527-532.	1.0	8
79	The Y4-RNA fragment, a potential diagnostic marker, exists in saliva. <i>Non-coding RNA Research</i> , 2017, 2, 122-128.	2.4	8
80	1 α ,25-Dihydroxyvitamin D3 down-regulates pleiotrophin messenger RNA expression in osteoblast-like cells. <i>Endocrine</i> , 1995, 3, 21-24.	2.2	7
81	Effect of Dentin Phosphoprotein on Phosphate-Induced Apoptosis of Odontoblast-Like Cells. <i>Cells Tissues Organs</i> , 2009, 189, 60-64.	1.3	7
82	Histone H3K9 methylation is involved in temporomandibular joint osteoarthritis. <i>International Journal of Molecular Medicine</i> , 2020, 45, 607-614.	1.8	7
83	Extracellular inorganic phosphate regulates Gibbon ape leukemia virus receptor-2/phosphate transporter mRNA expression in rat bone marrow stromal cells. <i>Journal of Cellular Physiology</i> , 2004, 198, 40-47.	2.0	6
84	TRUE Gene Silencing: Screening of a Heptamer-type Small Guide RNA Library for Potential Cancer Therapeutic Agents. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	6
85	Potential physiological roles of the 31/32-nucleotide Y4-RNA fragment in human plasma. <i>Non-coding RNA Research</i> , 2019, 4, 135-140.	2.4	6
86	Substrate recognition ability differs among various prokaryotic tRNase Zs. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 385-393.	1.0	4
87	Enamel matrix derivative neutralized the effect of lipopolysaccharide on osteoprotegerin and receptor activator of nuclear factor kappa B ligand expression of osteoblasts. <i>Archives of Oral Biology</i> , 2009, 54, 306-312.	0.8	4
88	A naked antisense oligonucleotide with phosphorothioate linkages is taken up intracellularly more efficiently but functions less effectively. <i>Biochemical and Biophysical Research Communications</i> , 2021, 573, 140-144.	1.0	4
89	Basic fibroblast growth factor uniquely stimulates quiescent vascular smooth muscle cells and induces proliferation and dedifferentiation. <i>FEBS Letters</i> , 2022, , .	1.3	4
90	Noncanonical Wnt signaling in stromal cells regulates B-lymphogenesis through interleukin-7 expression. <i>Biochemistry and Biophysics Reports</i> , 2016, 6, 179-184.	0.7	3

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91	Evaluation of double heptamer-type sgRNA as a potential therapeutic agent against multiple myeloma. <i>Blood Cells, Molecules, and Diseases</i> , 2019, 79, 102341.	0.6	3
92	Osteoblast-Related Gene Expression of Rat Bone Marrow Cells Induced by Three-dimensional Cell Culture in Type I Collagen Gel.. <i>Japanese Journal of Oral Biology</i> , 2002, 44, 530-540.	0.1	3
93	A study on growth factors regulating bone formation. Part 1. cDNA cloning of murine bone morphogenetic protein by polymerase chain reaction.. <i>Nihon Koku Geka Gakkai Zasshi</i> , 1993, 39, 103-109.	0.0	3
94	Functional analyses for tRNase Z variants: An aspartate and a histidine in the active site are essential for the catalytic activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 2079-2085.	1.1	2
95	Wasf2: A novel target of intermittent parathyroid hormone administration. <i>International Journal of Molecular Medicine</i> , 2013, 31, 1243-1247.	1.8	2
96	The 31-nucleotide Y4-RNA fragment in plasma is a potential novel biomarker. <i>Non-coding RNA Research</i> , 2020, 5, 37-40.	2.4	2
97	Heptamer-type small guide RNA that can shift macrophages toward the M1 state. <i>Blood Cells, Molecules, and Diseases</i> , 2021, 86, 102503.	0.6	2
98	Osteoadherin serves roles in the regulation of apoptosis and growth in MC3T3â€E1 osteoblast cells. <i>International Journal of Molecular Medicine</i> , 2019, 44, 2336-2344.	1.8	2
99	TRUE Gene Silencing. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5387.	1.8	2
100	A Novel Variation of the Lateral Window Approach for Sinus Floor Elevation in a Case of Bony Nodular Prominence. <i>Journal of Maxillofacial and Oral Surgery</i> , 2022, 21, 833-835.	0.6	1
101	The heptamer sgRNA targeting the human OCT4 mRNA can upregulate the OCT4 expression. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100918.	0.7	1
102	Involvement of an intracellular vesicular transport process in naked-sgRNA-mediated TRUE gene silencing. <i>Molecular Medicine Reports</i> , 2015, 12, 6365-6369.	1.1	0
103	Augmentation of the Width and Thickness of Keratinized Gingiva Using a Collagen Biomaterial in Apically Positioned Flap Surgery: A Technical Note. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2021, , .	0.4	0
104	Cloning of human bone morphogenetic protein-2(hBMP-2) cDNA by PCR method.. <i>Japanese Journal of Oral Biology</i> , 1993, 35, 64-74.	0.1	0
105	Iron deficiency anemia improved by dental implantation: A case report. <i>Saudi Journal of Medicine and Medical Sciences</i> , 2022, 10, 67.	0.3	0