

# Tatsuji Nishihara

## List of Publications by Year in descending order

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114  
papers

3,200  
citations

159585

30  
h-index

161849

54  
g-index

115  
all docs

115  
docs citations

115  
times ranked

4256  
citing authors

#	ARTICLE	IF	CITATIONS
1	p38 MAPK-Mediated Signals Are Required for Inducing Osteoclast Differentiation But Not for Osteoclast Function. <i>Endocrinology</i> , 2002, 143, 3105-3113.	2.8	260
2	Differential Inhibition of Smad6 and Smad7 on Bone Morphogenetic Protein- and Activin-mediated Growth Arrest and Apoptosis in B Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 13637-13642.	3.4	201
3	Mechanical stress-mediated Runx2 activation is dependent on Ras/ERK1/2 MAPK signaling in osteoblasts. <i>Journal of Cellular Biochemistry</i> , 2007, 101, 1266-1277.	2.6	198
4	Microbial etiology of periodontitis. <i>Periodontology 2000</i> , 2004, 36, 14-26.	13.4	181
5	Platelet-rich plasma enhances human osteoblast-like cell proliferation and differentiation. <i>Journal of Oral and Maxillofacial Surgery</i> , 2005, 63, 362-369.	1.2	163
6	Smad7 Is an Activin-inducible Inhibitor of Activin-induced Growth Arrest and Apoptosis in Mouse B Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 24293-24296.	3.4	119
7	Bone Morphogenetic Protein-2 Enhances Osteoclast Formation Mediated by Interleukin-1 $\beta$ through Upregulation of Osteoclast Differentiation Factor and Cyclooxygenase-2. <i>Biochemical and Biophysical Research Communications</i> , 1999, 259, 97-102.	2.1	98
8	1,25-Dihydroxyvitamin D3 Induces Differentiation of a Retinoic Acid-Resistant Acute Promyelocytic Leukemia Cell Line (UF-1) Associated With Expression of p21WAF1/CIP1 and p27KIP1. <i>Blood</i> , 1999, 93, 2225-2233.	1.4	90
9	Tensile mechanical strain up-regulates Runx2 and osteogenic factor expression in human periosteal cells: Implications for distraction osteogenesis. <i>Journal of Oral and Maxillofacial Surgery</i> , 2005, 63, 499-504.	1.2	84
10	Mechanism involved in enhancement of osteoblast differentiation by hyaluronic acid. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 575-580.	2.1	75
11	Role of TGF- $\beta$ family in osteoclastogenesis induced by RANKL. <i>Cellular Signalling</i> , 2002, 14, 31-36.	3.6	72
12	Specific Inhibitors of Vacuolar H <sup>+</sup> -ATPase Trigger Apoptotic Cell Death of Osteoclasts. <i>Journal of Bone and Mineral Research</i> , 1997, 12, 1116-1123.	2.8	66
13	Heparin inhibits BMP-2 osteogenic bioactivity by binding to both BMP-2 and BMP receptor. <i>Journal of Cellular Physiology</i> , 2008, 216, 844-850.	4.1	64
14	Mechanisms Involved in Enhancement of Osteoclast Formation and Function by Low Molecular Weight Hyaluronic Acid. <i>Journal of Biological Chemistry</i> , 2005, 280, 18967-18972.	3.4	60
15	p38 MAPK-Mediated Signals Are Required for Inducing Osteoclast Differentiation But Not for Osteoclast Function. <i>Endocrinology</i> , 2002, 143, 3105-3113.	2.8	60
16	Chemical composition and immunobiological properties of lipopolysaccharide and lipid-associated proteoglycan from <i>Actinobacillus actinomycetemcomitans</i> . <i>Journal of Periodontal Research</i> , 1986, 21, 521-530.	2.7	58
17	A Novel Insertion Sequence Increases the Expression of Leukotoxicity in <i>Actinobacillus actinomycetemcomitans</i> Clinical Isolates. <i>Journal of Periodontology</i> , 1999, 70, 1261-1268.	3.4	56
18	Activin A Induction of Cell-Cycle Arrest Involves Modulation of Cyclin D2 and p21 <sup>CIP1/WAF1</sup> in Plasmacytic Cells. <i>Molecular Endocrinology</i> , 1997, 11, 1044-1052.	3.7	54

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19	Docosahexaenoic acid enhances M2 macrophage polarization via the p38 signaling pathway and autophagy. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 12604-12617.	2.6	53
20	Mcl-1, an early-induction molecule, modulates activin A-induced apoptosis and differentiation of CML cells. <i>Oncogene</i> , 2001, 20, 704-713.	5.9	51
21	Heparin inhibits osteoclastic differentiation and function. <i>Journal of Cellular Biochemistry</i> , 2008, 103, 1707-1717.	2.6	51
22	Essential Role of Lysophosphatidylcholine Acyltransferase 3 in the Induction of Macrophage Polarization in PMA- $\alpha$ -Treated U937 Cells. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2840-2848.	2.6	42
23	Zoledronic acid exacerbates inflammation through M1 macrophage polarization. <i>Inflammation and Regeneration</i> , 2018, 38, 16.	3.7	42
24	Osteoclast differentiation is associated with transient upregulation of cyclin-dependent kinase inhibitors p21WAF1/CIP1 and p27KIP1. <i>Journal of Cellular Biochemistry</i> , 2001, 80, 339-345.	2.6	41
25	Induction of Apoptosis in B Lineage Cells by Activin A Derived from Macrophages. <i>Journal of Interferon and Cytokine Research</i> , 1995, 15, 509-516.	1.2	37
26	Mechanisms involved in suppression of ADAMTS4 expression in synoviocytes by high molecular weight hyaluronic acid. <i>Biochemical and Biophysical Research Communications</i> , 2013, 432, 580-585.	2.1	37
27	Epidermal growth factor receptor-targeted sonoporation with microbubbles enhances therapeutic efficacy in a squamous cell carcinoma model. <i>PLoS ONE</i> , 2017, 12, e0185293.	2.5	33
28	Role of caspases in cleavage of lamin A/C and PARP during apoptosis in macrophages infected with a periodontopathic bacterium. <i>Journal of Medical Microbiology</i> , 2007, 56, 1399-1404.	1.8	32
29	IL-33 inhibits RANKL-induced osteoclast formation through the regulation of Blimp-1 and IRF-8 expression. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 320-326.	2.1	32
30	Compressive mechanical stress promotes osteoclast formation through RANKL expression on synovial cells. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2007, 103, 334-341.	1.4	31
31	Human epithelial cell death caused by <i>Actinobacillus actinomycetemcomitans</i> infection. <i>Journal of Medical Microbiology</i> , 2000, 49, 739-745.	1.8	31
32	Dermatan sulfate inhibits osteoclast formation by binding to receptor activator of NF- $\kappa$ B ligand. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 447-452.	2.1	30
33	Possible involvement of protein kinases and Smad2 signaling pathways on osteoclast differentiation enhanced by activin A. <i>Journal of Cellular Physiology</i> , 2001, 188, 236-242.	4.1	27
34	Dual effects of heparin on BMP-2-induced osteogenic activity in MC3T3-E1 cells. <i>Pharmacological Reports</i> , 2011, 63, 1222-1230.	3.3	27
35	The Dectin 1 Agonist Curdlan Regulates Osteoclastogenesis by Inhibiting Nuclear Factor of Activated T cells Cytoplasmic 1 (NFATc1) through Syk Kinase. <i>Journal of Biological Chemistry</i> , 2014, 289, 19191-19203.	3.4	27
36	<i>Aggregatibacter actinomycetemcomitans</i> Invasion Induces Interleukin-1 $\beta$ Production Through Reactive Oxygen Species and Cathepsin B. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 431-440.	1.2	27

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37	Netrin-4 derived from murine vascular endothelial cells inhibits osteoclast differentiation in vitro and prevents bone loss in vivo. <i>FEBS Letters</i> , 2014, 588, 2262-2269.	2.8	26
38	Co-cultured spheroids of human periodontal ligament mesenchymal stem cells and vascular endothelial cells enhance periodontal tissue regeneration. <i>Regenerative Therapy</i> , 2020, 14, 59-71.	3.0	25
39	Mechanisms involved in regulation of osteoclastic differentiation by mechanical stress-loaded osteoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 103-109.	2.1	24
40	High molecular weight hyaluronic acid regulates MMP13 expression in chondrocytes via DUSP10/MKP5. <i>Journal of Orthopaedic Research</i> , 2017, 35, 331-339.	2.3	24
41	Increase in Bcl-2 Level Promoted by CD40 Ligation Correlates with Inhibition of B Cell Apoptosis Induced by Vacuolar Type H <sup>+</sup> -ATPase Inhibitor. <i>Experimental Cell Research</i> , 1998, 238, 82-89.	2.6	23
42	Mechanisms involved in suppression of NGF-induced neuronal differentiation of PC12 cells by hyaluronic acid. <i>Experimental Cell Research</i> , 2009, 315, 3036-3043.	2.6	22
43	Activation of the p21CIP1/WAF1 promoter by bone morphogenetic protein-2 in mouse B lineage cells. <i>Oncogene</i> , 2001, 20, 4383-4392.	5.9	21
44	Mechanisms involved in enhancement of osteoclast formation by activin-A. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 6974-6985.	2.6	20
45	Caspase-3 activation during the process of apoptosis induced by a vacuolar type H <sup>+</sup> -ATPase inhibitor. <i>Biology of the Cell</i> , 1999, 91, 507-513.	2.0	19
46	Cyclooxygenase-2-Dependent Prostaglandin Production by Peripheral Blood Monocytes Stimulated With Lipopolysaccharides Isolated From Periodontopathogenic Bacteria. <i>Journal of Periodontology</i> , 2000, 71, 1575-1582.	3.4	19
47	Lysophosphatidylcholine acyltransferase 4 is involved in chondrogenic differentiation of ATDC5 cells. <i>Scientific Reports</i> , 2017, 7, 16701.	3.3	18
48	Regeneration Approaches for Dental Pulp and Periapical Tissues with Growth Factors, Biomaterials, and Laser Irradiation. <i>Polymers</i> , 2011, 3, 1776-1793.	4.5	17
49	Involvement of caspase activation through release of cytochrome c from mitochondria in apoptotic cell death of macrophages infected with <i>Actinobacillus actinomycetemcomitans</i> . <i>FEMS Microbiology Letters</i> , 2004, 233, 29-35.	1.8	16
50	<i>Actinobacillus actinomycetemcomitans</i> induces apoptosis in human monocytic THP-1 cells. <i>Journal of Medical Microbiology</i> , 2005, 54, 293-298.	1.8	16
51	Ameloblastin attenuates RANKL-mediated osteoclastogenesis by suppressing activation of nuclear factor of activated T-cell cytoplasmic 1 (NFATc1). <i>Journal of Cellular Physiology</i> , 2019, 234, 1745-1757.	4.1	16
52	<i>Schizophyllum commune</i> $\beta$ -glucan: Effect on interleukin-10 expression induced by lipopolysaccharide from periodontopathic bacteria. <i>Carbohydrate Polymers</i> , 2021, 253, 117285.	10.2	16
53	Role of heme oxygenase-1 in inflammatory response induced by mechanical stretch in synovial cells. <i>Inflammation Research</i> , 2011, 60, 861-867.	4.0	15
54	Mechanisms of G1 cell cycle arrest and apoptosis in myeloma cells induced by hybrid-compound histone deacetylase inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 2013, 434, 413-420.	2.1	15

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55	Electrochemical Characterization of Current-Producing Human Oral Pathogens by Whole-Cell Electrochemistry. <i>ChemElectroChem</i> , 2020, 7, 2012-2019.	3.4	15
56	Involvement of caspases in apoptotic cell death of murine macrophages infected with <i>Actinobacillus actinomycetemcomitans</i> . <i>Journal of Periodontal Research</i> , 2001, 36, 40-47.	2.7	14
57	Essential role of mitogen-activated protein kinases in IL-17A-induced MMP-3 expression in human synovial sarcoma cells. <i>BMC Research Notes</i> , 2016, 9, 68.	1.4	14
58	The Biological Effects of Interleukin-17A on Adhesion Molecules Expression and Foam Cell Formation in Atherosclerotic Lesions. <i>Journal of Interferon and Cytokine Research</i> , 2019, 39, 694-702.	1.2	14
59	Ky-2, a hybrid compound histone deacetylase inhibitor, regulated inflammatory response in LPS-driven human macrophages. <i>Cell Biology International</i> , 2018, 42, 1622-1631.	3.0	13
60	Odontoblast differentiation is regulated by an interplay between primary cilia and the canonical Wnt pathway. <i>Bone</i> , 2021, 150, 116001.	2.9	13
61	Ameloblastin and enamelin prevent osteoclast formation by suppressing RANKL expression via MAPK signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , 2017, 485, 621-626.	2.1	12
62	Mechanisms involved in inhibition of chondrogenesis by activin-A. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 380-384.	2.1	10
63	Comparison of dental plaque reduction after use of electric toothbrushes with and without QLF-D-applied plaque visualization: a 1-week randomized controlled trial. <i>BMC Oral Health</i> , 2020, 20, 4.	2.3	10
64	Essential role of JAK/STAT pathway in the induction of cell cycle arrest in macrophages infected with periodontopathic bacterium <i>Aggregatibacter actinomycetemcomitans</i> . <i>Medical Microbiology and Immunology</i> , 2013, 202, 167-174.	4.8	9
65	A Preliminary Study on the Ability of the Trypsin-Like Peptidase Activity Assay Kit to Detect Periodontitis. <i>Dentistry Journal</i> , 2020, 8, 98.	2.3	9
66	Netrin-4 Promotes Differentiation and Migration of Osteoblasts. <i>In Vivo</i> , 2018, 31, 793-799.	1.3	9
67	Inhibitory effects of ameloblastin on epithelial cell proliferation. <i>Archives of Oral Biology</i> , 2014, 59, 835-840.	1.8	8
68	Continuous fever-range heat stress induces thermotolerance in odontoblast-lineage cells. <i>Archives of Oral Biology</i> , 2014, 59, 741-748.	1.8	8
69	Lysophosphatidylethanolamine acyltransferase 1/membrane-bound acyltransferase 1 regulates morphology and function of P19C6 cell-derived neurons. <i>FASEB Journal</i> , 2016, 30, 2591-2601.	0.5	8
70	Anticancer effect of novel platinum nanocomposite beads on oral squamous cell carcinoma cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2281-2287.	3.4	8
71	Anti-inflammatory effect of glycyrrhizin with <i>Equisetum arvense</i> extract. <i>Odontology / the Society of the Nippon Dental University</i> , 2021, 109, 464-473.	1.9	8
72	SC-19220, Antagonist of Prostaglandin E2 Receptor EP1, Inhibits Osteoclastogenesis by RANKL. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 15-22.	2.8	7

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73	Expression of Vesicular Nucleotide Transporter in Rat Odontoblasts. <i>Acta Histochemica Et Cytochemica</i> , 2016, 49, 21-28.	1.6	6
74	Intracellular apoptosis-inducing factor is induced by a vacuolar type H <sup>+</sup> -ATPase inhibitor in B lineage cells. <i>Journal of Cellular Physiology</i> , 2001, 186, 65-72.	4.1	5
75	Evaluation of the ability of the trypsin-like peptidase activity assay to detect severe periodontitis. <i>PLoS ONE</i> , 2021, 16, e0256538.	2.5	5
76	Novel biological activity of ameloblastin in enamel matrix derivative. <i>Journal of Applied Oral Science</i> , 2015, 23, 49-55.	1.8	4
77	Î²-glucan suppresses cell death of ASC deficient macrophages invaded by periodontopathic bacteria through the caspase-11 pathway. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	4
78	Accumulation of hyaluronic acid in stromal cells modulates osteoclast formation by regulation of receptor activator of nuclear factor kappa-B ligand expression. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 537-543.	2.1	4
79	Dectinâ€‘mediated suppression of RANKLâ€‘induced osteoclastogenesis by glucan from baker's yeast. <i>Journal of Cellular Physiology</i> , 2021, 236, 5098-5107.	4.1	4
80	Inflammatory response in epithelial cells induced by mechanical stress is suppressed by hyaluronic acid. <i>Inflammation and Regeneration</i> , 2010, 30, 120-127.	3.7	4
81	Mechanisms involved in suppression of osteoclast supportive activity by transforming growth factor-Î²1 via the ubiquitin-proteasome system. <i>PLoS ONE</i> , 2022, 17, e0262612.	2.5	4
82	Ameloblastin Upregulates Inflammatory Response Through Induction of IL-1Î² in Human Macrophages. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3308-3317.	2.6	3
83	3D spheroid culture models for chondrocytes using polyethylene glycol-coated microfabricated chip. <i>Biomedical Research</i> , 2020, 41, 187-197.	0.9	3
84	Characterization and Study of Gene Expression Profiles of Human Periodontal Mesenchymal Stem Cells in Spheroid Cultures by Transcriptome Analysis. <i>Stem Cells International</i> , 2021, 2021, 1-18.	2.5	2
85	The Association between <i>Tannerella forsythia</i> and the Onset of Fever in Older Nursing Home Residents: A Prospective Cohort Study. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4734.	2.6	1
86	The mechanisms of bone destruction in periodontitis -the factors of osteoclast formation and activation-. <i>Journal of Japanese Society of Periodontology</i> , 2015, 57, 120-125.	0.1	0
87	15. An immunohistochemical study of cartilage during distraction osteogenesis in rabbits. <i>The Journal of the Kyushu Dental Society</i> , 2002, 56, 173.	0.0	0
88	12. The role of Smad 6/7 in induction of apoptosis in mouse B cells stimulated with GDF 5. <i>The Journal of the Kyushu Dental Society</i> , 2002, 56, 171-172.	0.0	0
89	13. Effects of PPR (Platelet Rich Plasma) on human osteoblast like cells. <i>The Journal of the Kyushu Dental Society</i> , 2002, 56, 172.	0.0	0
90	14. Inhibitory effect of glycosaminoglycan on the formation of osteoclasts. <i>The Journal of the Kyushu Dental Society</i> , 2002, 56, 172-173.	0.0	0

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91	19. Antimicrobial effect of ozonated water against cariogenic Streptococcus mutans. The Journal of the Kyushu Dental Society, 2002, 56, 175-176.	0.0	0
92	Results of measuring the salivary spinability by NEVA METER and relationship between the spinability and other physical properties. The Journal of the Kyushu Dental Society, 2003, 57, 127.	0.0	0
93	Relationship between spinability of saliva and subjective symptoms in the patients complaining of dry mouth. The Journal of the Kyushu Dental Society, 2003, 57, 119.	0.0	0
94	Cytolethal distending toxin B from Actinobacillus actinomycetemcomitans induces cell death.. The Journal of the Kyushu Dental Society, 2003, 57, 116-117.	0.0	0
95	P-24. Clinical and molecular biological studies about the wound healing and the regeneration of pulp and periapical tissues, and the pulp regeneration therapy. The Journal of the Kyushu Dental Society, 2004, 58, 144-145.	0.0	0
96	P-16. Association between clinical tests for dry mouth and symptoms of dry mouth on outpatients at the dry mouth clinic in Kyushu Dental College Hospital. The Journal of the Kyushu Dental Society, 2004, 58, 140.	0.0	0
97	8. The influence of cytokine inducement on the colture synovium cells through the mechanical stress. The Journal of the Kyushu Dental Society, 2004, 58, 125-126.	0.0	0
98	7. Gene transfer using ultrasonic irradiation into the oral cancer cell line. The Journal of the Kyushu Dental Society, 2004, 58, 125.	0.0	0
99	P-27. Impact of low-molecular weights of hyaluronic acid on osteoclastic differentiation and function. The Journal of the Kyushu Dental Society, 2004, 58, 146-147.	0.0	0
100	9. Effect of mechanical strain on rat peviosteal cells. The Journal of the Kyushu Dental Society, 2004, 58, 126.	0.0	0
101	P-27. Introduction of the systematic education of medical communication and the training for simulated patients in Kyushu Dental College. The Journal of the Kyushu Dental Society, 2005, 59, 189.	0.0	0
102	P-3. Evaluation of salivary biomarkers on outpatients at the dry mouth clinic in Kyushu Dental College Hospital. The Journal of the Kyushu Dental Society, 2005, 59, 174-175.	0.0	0
103	P-25. The role of hyaluronan on the dysphagia rehabilitation : The effect of hyaluronan on the growth of Candida. The Journal of the Kyushu Dental Society, 2005, 59, 188.	0.0	0
104	P-18. Cytotoxic effect of CdtB on gingival squamous cell carcinoma. The Journal of the Kyushu Dental Society, 2005, 59, 183-184.	0.0	0
105	P-19. Induction and phosphorylation of HSP27 through p38 in proliferation and thermotolerance of pulp cells following LPS treatment and heat stress. The Journal of the Kyushu Dental Society, 2005, 59, 184-185.	0.0	0
106	P-16. Questionnaire survey of oral and general health in community-dwelling subjects of Fukuoka Prefecture. The Journal of the Kyushu Dental Society, 2005, 59, 182.	0.0	0
107	P-1. A questionnaire survey of oral and general health in community-dwelling elderly subjects of the Keichiku region in Fukuoka Prefecture. The Journal of the Kyushu Dental Society, 2006, 60, 76.	0.0	0
108	13. Atrophy of gastric mucosa is associated with dysgeusia in elderly : Dysgeusia and atrophy of gastric mucosa. The Journal of the Kyushu Dental Society, 2006, 60, 69-70.	0.0	0

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109	P-15. Establishment of a rat clonal dental pulp cell lines showing a the odontoblastic-phenotype. The Journal of the Kyushu Dental Society, 2006, 60, 84-85.	0.0	0
110	P-14. A study about the social skills of dental students. The Journal of the Kyushu Dental Society, 2006, 60, 83-84.	0.0	0
111	18. Effects of glycosaminoglycans on osteoclastgenesis. The Journal of the Kyushu Dental Society, 2006, 60, 73.	0.0	0
112	16. Molecular mechanism of apoptotic cell death in Actinobacillus actinomycetemcomitans infected macrophage. The Journal of the Kyushu Dental Society, 2006, 60, 71-72.	0.0	0
113	2. Oral hygiene and H. pylori infection in the elderly. The Journal of the Kyushu Dental Society, 2006, 60, 62-63.	0.0	0
114	Basic research on macrophages in periodontitis. Journal of Japanese Society of Periodontology, 2018, 60, 167-172.	0.1	0