

Ichiro Nishimura

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,162
citations

147801

31
h-index

175258

52
g-index

92
all docs

92
docs citations

92
times ranked

3642
citing authors

#	ARTICLE	IF	CITATIONS
1	Ceramics in dentistry: Historical roots and current perspectives. Journal of Prosthetic Dentistry, 1996, 75, 18-32.	2.8	489
2	Increased prevalence of bisphosphonate-related osteonecrosis of the jaw with vitamin D deficiency in rats. Journal of Bone and Mineral Research, 2010, 25, 1337-1349.	2.8	151
3	Current perspectives in residual ridge remodeling and its clinical implications: A review. Journal of Prosthetic Dentistry, 1998, 80, 224-237.	2.8	141
4	Craniosynostosis in transgenic mice overexpressing Nell-1. Journal of Clinical Investigation, 2002, 110, 861-870.	8.2	132
5	Ontogenetic Transition in Fetal Wound Transforming Growth Factor- β 2 Regulation Correlates with Collagen Organization. American Journal of Pathology, 2003, 163, 2459-2476.	3.8	114
6	Increased Peripheral Nerve Excitability and Local Nav1.8 RNA Up-Regulation in Painful Neuropathy. Molecular Pain, 2009, 5, 1744-8069-5-14.	2.1	93
7	Vitamin D and Bone Physiology: Demonstration of Vitamin D Deficiency in an Implant Osseointegration Rat Model. Journal of Prosthodontics, 2009, 18, 473-478.	3.7	75
8	Bisphosphonate-induced differential modulation of immune cell function in gingiva and bone marrow <i>in vivo</i> : Role in osteoclast-mediated NK cell activation. Oncotarget, 2015, 6, 20002-20025.	1.8	72
9	Effects of cortical bone perforation on experimental guided bone regeneration. Clinical Oral Implants Research, 2004, 15, 293-300.	4.5	64
10	Neuronal Differentiation of Bone Marrow-derived Stromal Stem Cells Involves Suppression of Discordant Phenotypes through Gene Silencing. Journal of Biological Chemistry, 2005, 280, 23691-23697.	3.4	58
11	Novel Strategy to Expand Super-Charged NK Cells with Significant Potential to Lyse and Differentiate Cancer Stem Cells: Differences in NK Expansion and Function between Healthy and Cancer Patients. Frontiers in Immunology, 2017, 8, 297.	4.8	55
12	Modulated Expression of Type X Collagen in the Meckel's Cartilage with Different Developmental Fates. Developmental Biology, 1995, 170, 387-396.	2.0	52
13	Downregulation of Extracellular Matrix-Related Gene Clusters during Osteogenic Differentiation of Human Bone Marrow- and Adipose Tissue-Derived Stromal Cells. Tissue Engineering, 2007, 13, 2589-2600.	4.6	52
14	Circadian Rhythm and Cartilage Extracellular Matrix Genes in Osseointegration: A Genome-Wide Screening of Implant Failure by Vitamin D Deficiency. PLoS ONE, 2011, 6, e15848.	2.5	50
15	Discrete deposition of hydroxyapatite nanoparticles on a titanium implant with predisposing substrate microtopography accelerated osseointegration. Nanotechnology, 2007, 18, 245101.	2.6	49
16	Equilibrium-dependent bisphosphonate interaction with crystalline bone mineral explains anti-resorptive pharmacokinetics and prevalence of osteonecrosis of the jaw in rats. Bone, 2013, 53, 59-68.	2.9	48
17	Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. Scientific Reports, 2013, 3, 3420.	3.3	48
18	Aberrant plasticity of peripheral sensory axons in a painful neuropathy. Scientific Reports, 2017, 7, 3407.	3.3	47

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19	Super-charged NK cells inhibit growth and progression of stem-like/poorly differentiated oral tumors<i>in vivo</i>in humanized BLT mice; effect on tumor differentiation and response to chemotherapeutic drugs. <i>Oncolmmunology</i> , 2018, 7, e1426518.	4.6	47
20	Osteonecrosis of the Jaw Developed in Mice. <i>Journal of Biological Chemistry</i> , 2015, 290, 17349-17366.	3.4	46
21	The knife-edge tendency in mandibular residual ridges in women. <i>Journal of Prosthetic Dentistry</i> , 1992, 67, 820-826.	2.8	42
22	Thrombus organization and healing in the swine experimental aneurysm model. Part I. A histological and molecular analysis. <i>Journal of Neurosurgery</i> , 2007, 107, 94-108.	1.6	41
23	G<sc>ene</sc> E<sc>xpression</sc> P<sc>rofilng by</sc> DNA M<sc>icroarray</sc> T<sc>echnology</sc>. <i>Critical Reviews in Oral Biology and Medicine</i> , 2002, 13, 35-50.	4.4	40
24	Point-of-care antimicrobial coating protects orthopaedic implants from bacterial challenge. <i>Nature Communications</i> , 2021, 12, 5473.	12.8	40
25	Precursor Tissue Analogs as a Tissue-Engineering Strategy. <i>Tissue Engineering</i> , 2003, 9, 77-89.	4.6	38
26	Relationship of Axonal Voltage-gated Sodium Channel 1.8 (Nav1.8) mRNA Accumulation to Sciatic Nerve Injury-induced Painful Neuropathy in Rats. <i>Journal of Biological Chemistry</i> , 2011, 286, 39836-39847.	3.4	36
27	Animal model of radiogenic bone damage to study mandibular osteoradionecrosis. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2011, 32, 291-300.	1.3	34
28	Effect of osseointegrated implants on the coordination of masticatory muscles: A pilot study. <i>Journal of Prosthetic Dentistry</i> , 2000, 84, 185-193.	2.8	33
29	Membrane Type (MT)1-Matrix Metalloproteinase (MMP) and MMP-2 Expression in Ligature-Induced Periodontitis in the Rat. <i>Journal of Periodontology</i> , 2003, 74, 494-500.	3.4	33
30	Standardized Analysis of Mandibular Osteoradionecrosis in a Rat Model. <i>Otolaryngology - Head and Neck Surgery</i> , 2011, 145, 404-410.	1.9	33
31	Subcutaneous Peripheral Injection of Cationized Gelatin/DNA Polyplexes As a Platform for Non-viral Gene Transfer to Sensory Neurons. <i>Molecular Therapy</i> , 2007, 15, 2124-2131.	8.2	32
32	Trabecular Bone Deterioration in <i>col9a1</i>+/â~ Mice Associated With Enlarged Osteoclasts Adhered to Collagen IXâ€“Deficient Bone. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 837-849.	2.8	31
33	Altered cartilage phenotype expressed during intramembranous bone formation. <i>Journal of Bone and Mineral Research</i> , 1993, 8, 1377-1387.	2.8	31
34	Differential effect of ionizing radiation exposure on multipotent and differentiationâ€“restricted bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 322-332.	2.6	31
35	The role of titanium implant surface modification with hydroxyapatite nanoparticles in progressive early bone-implant fixation in vivo. <i>International Journal of Oral and Maxillofacial Implants</i> , 2009, 24, 808-16.	1.4	31
36	The Expression of Collagen I and XII mRNAs inPorphyromonas gingivalis-Induced Periodontitis in Rats: The Effect of Doxycycline and Chemically Modified Tetracycline. <i>Journal of Periodontology</i> , 1998, 69, 34-40.	3.4	30

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37	Structural Variation of Type XII Collagen at Its Carboxyl-terminal NC1 Domain Generated by Tissue-specific Alternative Splicing. Journal of Biological Chemistry, 1999, 274, 22053-22059.	3.4	28
38	Rescue bisphosphonate treatment of alveolar bone improves extraction socket healing and reduces osteonecrosis in zoledronate-treated mice. Bone, 2019, 123, 115-128.	2.9	28
39	RB1CC1 Activates RB1 Pathway and Inhibits Proliferation and Cologenic Survival in Human Cancer. PLoS ONE, 2010, 5, e11404.	2.5	28
40	A New Dimension in the Extracellular Matrix. Connective Tissue Research, 1989, 20, 179-186.	2.3	27
41	Thrombus organization and healing in an experimental aneurysm model. Part II. The effect of various types of bioactive bioabsorbable polymeric coils. Journal of Neurosurgery, 2007, 107, 109-120.	1.6	27
42	Small Cytoskeleton-Associated Molecule, Fibroblast Growth Factor Receptor 1 Oncogene Partner 2/Wound Inducible Transcript-3.0 (FGFR1OP2/wit3.0), Facilitates Fibroblast-Driven Wound Closure. American Journal of Pathology, 2010, 176, 108-121.	3.8	27
43	Plasticity of Myeloid Cells during Oral Barrier Wound Healing and the Development of Bisphosphonate-related Osteonecrosis of the Jaw. Journal of Biological Chemistry, 2016, 291, 20602-20616.	3.4	26
44	Neuronal PAS domain 2 (Npas2) facilitated osseointegration of titanium implant with rough surface through a neuroskeletal mechanism. Biomaterials, 2019, 192, 62-74.	11.4	26
45	Oral Fibroblast Expression of wound-inducible transcript 3.0 (wit3.0) Accelerates the Collagen Gel Contraction in Vitro. Journal of Biological Chemistry, 2003, 278, 51527-51534.	3.4	25
46	Resolution of pain and complete healing of mandibular osteoradionecrosis using pentoxifylline and tocopherol: a case report. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2012, 113, e18-e23.	0.4	25
47	Raman Molecular Fingerprints of SARS-CoV-2 British Variant and the Concept of Raman Barcode. Advanced Science, 2022, 9, e2103287.	11.2	25
48	Effect of ovariectomy on the local residual ridge remodeling. Journal of Prosthetic Dentistry, 1997, 77, 435-443.	2.8	22
49	Effects of teriparatide on morphology of aortic calcification in aged hyperlipidemic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H1203-H1213.	3.2	22
50	Neuronal PAS Domain 2 (Npas2)-Deficient Fibroblasts Accelerate Skin Wound Healing and Dermal Collagen Reconstruction. Anatomical Record, 2020, 303, 1630-1641.	1.4	20
51	Modulated bone matrix-related gene expression is associated with differences in interfacial strength of different implant surface roughness. Journal of Prosthodontics, 2002, 11, 241-247.	3.7	20
52	Craniofacial abnormalities in mice carrying a dominant interference mutation in type X collagen. Developmental Dynamics, 1997, 208, 544-552.	1.8	19
53	RB1CC1 Together with RB1 and p53 Predicts Long-Term Survival in Japanese Breast Cancer Patients. PLoS ONE, 2010, 5, e15737.	2.5	19
54	Titanium biomaterials with complex surfaces induced aberrant peripheral circadian rhythms in bone marrow mesenchymal stromal cells. PLoS ONE, 2017, 12, e0183359.	2.5	18

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55	Altered bone remodeling pattern of the residual ridge in ovariectomized rats. <i>Journal of Prosthetic Dentistry</i> , 1994, 72, 324-330.	2.8	16
56	Impact of Human Genome Project on treatment of frail and edentulous patients*. <i>Gerodontology</i> , 2004, 21, 3-9.	2.0	16
57	Molecular Fingerprint Imaging to Identify Dental Caries Using Raman Spectroscopy. <i>Materials</i> , 2020, 13, 4900.	2.9	15
58	Antifungal activity of polymethyl methacrylate/Si3N4 composites against <i>Candida albicans</i> . <i>Acta Biomaterialia</i> , 2021, 126, 259-276.	8.3	15
59	Raman Spectroscopy of Oral <i>Candida</i> Species: Molecular-Scale Analyses, Chemometrics, and Barcode Identification. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5359.	4.1	15
60	ENU Large-scale Mutagenesis and Quantitative Trait Linkage (QTL) Analysis in Mice: Novel Technologies for Searching Polygenetic Determinants of Craniofacial Abnormalities. <i>Critical Reviews in Oral Biology and Medicine</i> , 2003, 14, 320-330.	4.4	14
61	Raman Imaging of Pathogenic <i>Candida auris</i> : Visualization of Structural Characteristics and Machine-Learning Identification. <i>Frontiers in Microbiology</i> , 2021, 12, 769597.	3.5	14
62	Current perspectives of residual ridge resorption: Pathological activation of oral barrier osteoclasts. <i>Journal of Prosthodontic Research</i> , 2023, 67, 12-22.	2.8	14
63	A local pathophysiologic mechanism of the resorption of residual ridges: Prostaglandin as a mediator of bone resorption. <i>Journal of Prosthetic Dentistry</i> , 1988, 60, 381-388.	2.8	13
64	Wound closure and wound management. <i>Cell Adhesion and Migration</i> , 2010, 4, 396-399.	2.7	13
65	Design and Synthesis of Cathepsin-K-Activated Osteoadsorptive Fluorogenic Sentinel (OFS) Probes for Detecting Early Osteoclastic Bone Resorption in a Multiple Myeloma Mouse Model. <i>Bioconjugate Chemistry</i> , 2021, 32, 916-927.	3.6	13
66	A Genetic Association Study of Single Nucleotide Polymorphisms in FGFR1OP2/wit3.0 and Long-Term Atrophy of Edentulous Mandible. <i>PLoS ONE</i> , 2011, 6, e16204.	2.5	12
67	A Short Isoform of Col9a1 Supports Alveolar Bone Repair. <i>American Journal of Pathology</i> , 1999, 155, 1993-1999.	3.8	11
68	Intravascular tissue reactions induced by various types of bioabsorbable polymeric materials: correlation between the degradation profiles and corresponding tissue reactions. <i>Neuroradiology</i> , 2010, 52, 1017-1024.	2.2	11
69	In Vivo Regeneration of Large Bone Defects by Cross-Linked Porous Hydrogel: A Pilot Study in Mice Combining Micro Tomography, Histological Analyses, Raman Spectroscopy and Synchrotron Infrared Imaging. <i>Materials</i> , 2020, 13, 4275.	2.9	11
70	Therapeutic downregulation of neuronal PAS domain 2 (<i>Npas2</i>) promotes surgical skin wound healing. <i>ELife</i> , 2022, 11, .	6.0	11
71	RB1CC1 Protein Suppresses Type II Collagen Synthesis in Chondrocytes and Causes Dwarfism. <i>Journal of Biological Chemistry</i> , 2011, 286, 43925-43932.	3.4	9
72	Deformable Nanovesicles Synthesized through an Adaptable Microfluidic Platform for Enhanced Localized Transdermal Drug Delivery. <i>Journal of Drug Delivery</i> , 2017, 2017, 1-12.	2.5	9

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73	Pilot study of the heterogeneous patterns of masticatory muscle coordination in nonpatient population. Journal of Prosthetic Dentistry, 1995, 74, 637-643.	2.8	8
74	Raman Fingerprints of the SARS-CoV-2 Delta Variant and Mechanisms of Its Instantaneous Inactivation by Silicon Nitride Bioceramics. ACS Infectious Diseases, 2022, 8, 1563-1581.	3.8	7
75	Animal model for evaluating the effect of systemic estrogen deficiency on residual ridge resorption. Journal of Prosthetic Dentistry, 1995, 73, 304-310.	2.8	6
76	Maintenance of regional histodifferentiation patterns and a spatially restricted expression of type X collagen in rat Meckel's cartilage explants in vitro. Archives of Oral Biology, 1999, 44, 489-497.	1.8	6
77	Recombinant collagen polypeptide as a versatile bone graft biomaterial. Communications Materials, 2020, 1, .	6.9	6
78	Knife-edge residual ridges: A clinical report. Journal of Prosthetic Dentistry, 1994, 71, 231-234.	2.8	5
79	Role of voltage-gated sodium channels in axonal signal propagation of trigeminal ganglion neurons after infraorbital nerve entrapment. Neurobiology of Pain (Cambridge, Mass), 2022, 11, 100084.	2.5	5
80	Cyclic pressure-induced cytokines from gingival fibroblasts stimulate osteoclast activity: Clinical implications for alveolar bone loss in denture wearers. Journal of Prosthodontic Research, 2023, 67, 77-86.	2.8	5
81	Bioresorbable Bone Graft Composed of an RGD-Enriched Recombinant Human Collagen Polypeptide Induced Neovascularization and Regeneration of Mature Bone Tissue. ACS Applied Bio Materials, 2020, 3, 8592-8602.	4.6	4
82	Zoledronic acid mediated differential activation of NK cells in different organs of WT and Rag2 mice; stark differences between the bone marrow and gingivae. Cellular Immunology, 2022, 375, 104526.	3.0	4
83	Implications of the circadian clock in implant dentistry. Dental Materials Journal, 2020, 39, 173-180.	1.8	3
84	Application of feedback system control (FSC) to identify the optimized osteogenic drug cocktails. , 2011,, .		0
85	Genetic Background of Implant Failure. , 2013, , 41-59.		0
86	Bisphosphonates and Dental Implant Treatment. , 2013, , 61-76.		0
87	Expression of wit3.0 for accelerated wound contractions. FASEB Journal, 2006, 20, A464.	0.5	0
88	Implant interface to bone tissue: biomimetic surface functionalization through nanotechnology. , 2010, , 69-75.		0