

Ichiro Nishimura

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,162
citations

147566

31
h-index

174990

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. <i>Journal of Prosthetic Dentistry</i> , 1996, 75, 18-32. | 1.1 | 489 |
| 2 | Increased prevalence of bisphosphonate-related osteonecrosis of the jaw with vitamin D deficiency in rats. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1337-1349. | 3.1 | 151 |
| 3 | Current perspectives in residual ridge remodeling and its clinical implications: A review. <i>Journal of Prosthetic Dentistry</i> , 1998, 80, 224-237. | 1.1 | 141 |
| 4 | Craniosynostosis in transgenic mice overexpressing <i>Nell-1</i> . <i>Journal of Clinical Investigation</i> , 2002, 110, 861-870. | 3.9 | 132 |
| 5 | Ontogenetic Transition in Fetal Wound Transforming Growth Factor- β 2 Regulation Correlates with Collagen Organization. <i>American Journal of Pathology</i> , 2003, 163, 2459-2476. | 1.9 | 114 |
| 6 | Increased Peripheral Nerve Excitability and Local <i>Nav1.8</i> RNA Up-Regulation in Painful Neuropathy. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-14. | 1.0 | 93 |
| 7 | Vitamin D and Bone Physiology: Demonstration of Vitamin D Deficiency in an Implant Osseointegration Rat Model. <i>Journal of Prosthodontics</i> , 2009, 18, 473-478. | 1.7 | 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. <i>Oncotarget</i> , 2015, 6, 20002-20025. | 0.8 | 72 |
| 9 | Effects of cortical bone perforation on experimental guided bone regeneration. <i>Clinical Oral Implants Research</i> , 2004, 15, 293-300. | 1.9 | 64 |
| 10 | Neuronal Differentiation of Bone Marrow-derived Stromal Stem Cells Involves Suppression of Discordant Phenotypes through Gene Silencing. <i>Journal of Biological Chemistry</i> , 2005, 280, 23691-23697. | 1.6 | 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. <i>Frontiers in Immunology</i> , 2017, 8, 297. | 2.2 | 55 |
| 12 | Modulated Expression of Type X Collagen in the Meckel's Cartilage with Different Developmental Fates. <i>Developmental Biology</i> , 1995, 170, 387-396. | 0.9 | 52 |
| 13 | Downregulation of Extracellular Matrix-Related Gene Clusters during Osteogenic Differentiation of Human Bone Marrow- and Adipose Tissue-Derived Stromal Cells. <i>Tissue Engineering</i> , 2007, 13, 2589-2600. | 4.9 | 52 |
| 14 | Circadian Rhythm and Cartilage Extracellular Matrix Genes in Osseointegration: A Genome-Wide Screening of Implant Failure by Vitamin D Deficiency. <i>PLoS ONE</i> , 2011, 6, e15848. | 1.1 | 50 |
| 15 | Discrete deposition of hydroxyapatite nanoparticles on a titanium implant with predisposing substrate microtopography accelerated osseointegration. <i>Nanotechnology</i> , 2007, 18, 245101. | 1.3 | 49 |
| 16 | Equilibrium-dependent bisphosphonate interaction with crystalline bone mineral explains anti-resorptive pharmacokinetics and prevalence of osteonecrosis of the jaw in rats. <i>Bone</i> , 2013, 53, 59-68. | 1.4 | 48 |
| 17 | Guiding the osteogenic fate of mouse and human mesenchymal stem cells through feedback system control. <i>Scientific Reports</i> , 2013, 3, 3420. | 1.6 | 48 |
| 18 | Aberrant plasticity of peripheral sensory axons in a painful neuropathy. <i>Scientific Reports</i> , 2017, 7, 3407. | 1.6 | 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. | 2.1 | 47 |
| 20 | Osteonecrosis of the Jaw Developed in Mice. <i>Journal of Biological Chemistry</i> , 2015, 290, 17349-17366. | 1.6 | 46 |
| 21 | The knife-edge tendency in mandibular residual ridges in women. <i>Journal of Prosthetic Dentistry</i> , 1992, 67, 820-826. | 1.1 | 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. | 0.9 | 41 |
| 23 | Gene Expression Profiling by DNA Microarray Technology. <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. | 5.8 | 40 |
| 25 | Precursor Tissue Analogs as a Tissue-Engineering Strategy. <i>Tissue Engineering</i> , 2003, 9, 77-89. | 4.9 | 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. | 1.6 | 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. | 0.6 | 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. | 1.1 | 33 |
| 29 | Membrane Type 1-Matrix Metalloproteinase (MMP) and MMP-2 Expression in Ligature-Induced Periodontitis in the Rat. <i>Journal of Periodontology</i> , 2003, 74, 494-500. | 1.7 | 33 |
| 30 | Standardized Analysis of Mandibular Osteoradionecrosis in a Rat Model. <i>Otolaryngology - Head and Neck Surgery</i> , 2011, 145, 404-410. | 1.1 | 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. | 3.7 | 32 |
| 32 | Trabecular Bone Deterioration in <i>col9a1</i> ^{+/Δ} Mice Associated With Enlarged Osteoclasts Adhered to Collagen IX-Deficient Bone. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 837-849. | 3.1 | 31 |
| 33 | Altered cartilage phenotype expressed during intramembranous bone formation. <i>Journal of Bone and Mineral Research</i> , 1993, 8, 1377-1387. | 3.1 | 31 |
| 34 | Differential effect of ionizing radiation exposure on multipotent and differentiation-restricted bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 322-332. | 1.2 | 31 |
| 35 | The role of titanium implant surface modification with hydroxyapatite nanoparticles in progressive early bone-implant fixation <i>in vivo</i> . <i>International Journal of Oral and Maxillofacial Implants</i> , 2009, 24, 808-16. | 0.6 | 31 |
| 36 | The Expression of Collagen I and XII mRNAs in <i>Porphyromonas gingivalis</i> -Induced Periodontitis in Rats: The Effect of Doxycycline and Chemically Modified Tetracycline. <i>Journal of Periodontology</i> , 1998, 69, 34-40. | 1.7 | 30 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Structural Variation of Type XII Collagen at Its Carboxyl-terminal NC1 Domain Generated by Tissue-specific Alternative Splicing. <i>Journal of Biological Chemistry</i> , 1999, 274, 22053-22059. | 1.6 | 28 |
| 38 | Rescue bisphosphonate treatment of alveolar bone improves extraction socket healing and reduces osteonecrosis in zoledronate-treated mice. <i>Bone</i> , 2019, 123, 115-128. | 1.4 | 28 |
| 39 | RB1CC1 Activates RB1 Pathway and Inhibits Proliferation and Clonogenic Survival in Human Cancer. <i>PLoS ONE</i> , 2010, 5, e11404. | 1.1 | 28 |
| 40 | A New Dimension in the Extracellular Matrix. <i>Connective Tissue Research</i> , 1989, 20, 179-186. | 1.1 | 27 |
| 41 | Thrombus organization and healing in an experimental aneurysm model. Part II. The effect of various types of bioactive bioabsorbable polymeric coils. <i>Journal of Neurosurgery</i> , 2007, 107, 109-120. | 0.9 | 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. <i>American Journal of Pathology</i> , 2010, 176, 108-121. | 1.9 | 27 |
| 43 | Plasticity of Myeloid Cells during Oral Barrier Wound Healing and the Development of Bisphosphonate-related Osteonecrosis of the Jaw. <i>Journal of Biological Chemistry</i> , 2016, 291, 20602-20616. | 1.6 | 26 |
| 44 | Neuronal PAS domain 2 (Npas2) facilitated osseointegration of titanium implant with rough surface through a neuroskeletal mechanism. <i>Biomaterials</i> , 2019, 192, 62-74. | 5.7 | 26 |
| 45 | Oral Fibroblast Expression of wound-inducible transcript 3.0 (wit3.0) Accelerates the Collagen Gel Contraction in Vitro. <i>Journal of Biological Chemistry</i> , 2003, 278, 51527-51534. | 1.6 | 25 |
| 46 | Resolution of pain and complete healing of mandibular osteoradionecrosis using pentoxifylline and tocopherol: a case report. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2012, 113, e18-e23. | 0.2 | 25 |
| 47 | Raman Molecular Fingerprints of SARS-CoV-2 British Variant and the Concept of Raman Barcode. <i>Advanced Science</i> , 2022, 9, e2103287. | 5.6 | 25 |
| 48 | Effect of ovariectomy on the local residual ridge remodeling. <i>Journal of Prosthetic Dentistry</i> , 1997, 77, 435-443. | 1.1 | 22 |
| 49 | Effects of teriparatide on morphology of aortic calcification in aged hyperlipidemic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1203-H1213. | 1.5 | 22 |
| 50 | Neuronal PAS Domain 2 (Npas2)-Deficient Fibroblasts Accelerate Skin Wound Healing and Dermal Collagen Reconstruction. <i>Anatomical Record</i> , 2020, 303, 1630-1641. | 0.8 | 20 |
| 51 | Modulated bone matrix-related gene expression is associated with differences in interfacial strength of different implant surface roughness. <i>Journal of Prosthodontics</i> , 2002, 11, 241-247. | 1.7 | 20 |
| 52 | Craniofacial abnormalities in mice carrying a dominant interference mutation in type X collagen. <i>J Biol Chem</i> , 1997, 272, 544-552. | | 19 |
| 53 | RB1CC1 Together with RB1 and p53 Predicts Long-Term Survival in Japanese Breast Cancer Patients. <i>PLoS ONE</i> , 2010, 5, e15737. | 1.1 | 19 |
| 54 | Titanium biomaterials with complex surfaces induced aberrant peripheral circadian rhythms in bone marrow mesenchymal stromal cells. <i>PLoS ONE</i> , 2017, 12, e0183359. | 1.1 | 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. | 1.1 | 16 |
| 56 | Impact of Human Genome Project on treatment of frail and edentulous patients*. <i>Gerodontology</i> , 2004, 21, 3-9. | 0.8 | 16 |
| 57 | Molecular Fingerprint Imaging to Identify Dental Caries Using Raman Spectroscopy. <i>Materials</i> , 2020, 13, 4900. | 1.3 | 15 |
| 58 | Antifungal activity of polymethyl methacrylate/Si3N4 composites against <i>Candida albicans</i> . <i>Acta Biomaterialia</i> , 2021, 126, 259-276. | 4.1 | 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. | 1.8 | 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. | 1.5 | 14 |
| 62 | Current perspectives of residual ridge resorption: Pathological activation of oral barrier osteoclasts. <i>Journal of Prosthodontic Research</i> , 2023, 67, 12-22. | 1.1 | 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. | 1.1 | 13 |
| 64 | Wound closure and wound management. <i>Cell Adhesion and Migration</i> , 2010, 4, 396-399. | 1.1 | 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. | 1.8 | 13 |
| 66 | A Genetic Association Study of Single Nucleotide Polymorphisms in <i>FGFR1OP2/wit3.0</i> and Long-Term Atrophy of Edentulous Mandible. <i>PLoS ONE</i> , 2011, 6, e16204. | 1.1 | 12 |
| 67 | A Short Isoform of <i>Col9a1</i> Supports Alveolar Bone Repair. <i>American Journal of Pathology</i> , 1999, 155, 1993-1999. | 1.9 | 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. | 1.1 | 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. | 1.3 | 11 |
| 70 | Therapeutic downregulation of neuronal PAS domain 2 (<i>Npas2</i>) promotes surgical skin wound healing. <i>ELife</i> , 2022, 11, . | 2.8 | 11 |
| 71 | <i>RB1CC1</i> Protein Suppresses Type II Collagen Synthesis in Chondrocytes and Causes Dwarfism. <i>Journal of Biological Chemistry</i> , 2011, 286, 43925-43932. | 1.6 | 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. <i>Journal of Prosthetic Dentistry</i> , 1995, 74, 637-643. | 1.1 | 8 |
| 74 | Raman Fingerprints of the SARS-CoV-2 Delta Variant and Mechanisms of Its Instantaneous Inactivation by Silicon Nitride Bioceramics. <i>ACS Infectious Diseases</i> , 2022, 8, 1563-1581. | 1.8 | 7 |
| 75 | Animal model for evaluating the effect of systemic estrogen deficiency on residual ridge resorption. <i>Journal of Prosthetic Dentistry</i> , 1995, 73, 304-310. | 1.1 | 6 |
| 76 | Maintenance of regional histodifferentiation patterns and a spatially restricted expression of type X collagen in rat Meckel's cartilage explants in vitro. <i>Archives of Oral Biology</i> , 1999, 44, 489-497. | 0.8 | 6 |
| 77 | Recombinant collagen polypeptide as a versatile bone graft biomaterial. <i>Communications Materials</i> , 2020, 1, . | 2.9 | 6 |
| 78 | Knife-edge residual ridges: A clinical report. <i>Journal of Prosthetic Dentistry</i> , 1994, 71, 231-234. | 1.1 | 5 |
| 79 | Role of voltage-gated sodium channels in axonal signal propagation of trigeminal ganglion neurons after infraorbital nerve entrapment. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2022, 11, 100084. | 1.0 | 5 |
| 80 | Cyclic pressure-induced cytokines from gingival fibroblasts stimulate osteoclast activity: Clinical implications for alveolar bone loss in denture wearers. <i>Journal of Prosthodontic Research</i> , 2023, 67, 77-86. | 1.1 | 5 |
| 81 | Bioresorbable Bone Graft Composed of an RGD-Enriched Recombinant Human Collagen Polypeptide Induced Neovascularization and Regeneration of Mature Bone Tissue. <i>ACS Applied Bio Materials</i> , 2020, 3, 8592-8602. | 2.3 | 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. <i>Cellular Immunology</i> , 2022, 375, 104526. | 1.4 | 4 |
| 83 | Implications of the circadian clock in implant dentistry. <i>Dental Materials Journal</i> , 2020, 39, 173-180. | 0.8 | 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. <i>FASEB Journal</i> , 2006, 20, A464. | 0.2 | 0 |
| 88 | Implant interface to bone tissue: biomimetic surface functionalization through nanotechnology. , 2010, , 69-75. | | 0 |