# Kazuhiro Aoki

List of Publications by Year
in descending order

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Version: 2024-02-01

| 166 | 9,218 | 41344 | 46799 |
|---|---|---|---|
| papers | citations | 49 h-index | 89 g-index |

| 196 | 196 | 196 | 12127 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Development of an optimized backbone of FRET biosensors for kinases and GTPases. Molecular Biology of the Cell, 2011, 22, 4647-4656. | 2.1 | 529 |
| 2 | Selective inhibition of NF-ÎºB blocks osteoclastogenesis and prevents inflammatory bone destruction in vivo. Nature Medicine, 2004, 10, 617-624. | 30.7 | 465 |
| 3 | Cathepsin K-Dependent Toll-Like Receptor 9 Signaling Revealed in Experimental Arthritis. Science, 2008, 319, 624-627. | 12.6 | 401 |
| 4 | Coupling of bone resorption and formation by RANKL reverse signalling. Nature, 2018, 561, 195-200. | 27.8 | 376 |
| 5 | IÎºBÎ¶ regulates TH17 development by cooperating with ROR nuclear receptors. Nature, 2010, 464, 1381-1385. | 27.8 | 361 |
| 6 | Overexpression of Î”FosB transcription factor(s) increases bone formation and inhibits adipogenesis. Nature Medicine, 2000, 6, 985-990. | 30.7 | 325 |
| 7 | Regulation of osteoclast differentiation and function by the CaMK-CREB pathway. Nature Medicine, 2006, 12, 1410-1416. | 30.7 | 302 |
| 8 | Dynamics of the Ras/ERK MAPK Cascade as Monitored by Fluorescent Probes. Journal of Biological Chemistry, 2006, 281, 8917-8926. | 3.4 | 302 |
| 9 | Stochastic ERK Activation Induced by Noise and Cell-to-Cell Propagation Regulates Cell Density-Dependent Proliferation. Molecular Cell, 2013, 52, 529-540. | 9.7 | 275 |
| 10 | Propagating Wave of ERK Activation Orients Collective Cell Migration. Developmental Cell, 2017, 43, 305-317.e5. | 7.0 | 209 |
| 11 | Defective microtubule-dependent podosome organization in osteoclasts leads to increased bone density inPyk2â^'/â^'mice. Journal of Cell Biology, 2007, 178, 1053-1064. | 5.2 | 208 |
| 12 | Intercellular propagation of extracellular signal-regulated kinase activation revealed by in vivo imaging of mouse skin. ELife, 2015, 4, e05178. | 6.0 | 202 |
| 13 | Processive phosphorylation of ERK MAP kinase in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12675-12680. | 7.1 | 157 |
| 14 | ERK-Mediated Mechanochemical Waves Direct Collective Cell Polarization. Developmental Cell, 2020, 53, 646-660.e8. | 7.0 | 152 |
| 15 | Effects of surface roughness of titanium implants on bone remodeling activity of femur in rabbits. Bone, 1997, 21, 507-514. | 2.9 | 146 |
| 16 | Signaling pathway via TNF-Î±/NF-ÎºB in intestinal epithelial cells may be directly involved in colitis-associated carcinogenesis. American Journal of Physiology - Renal Physiology, 2009, 296, G850-G859. | 3.4 | 144 |
| 17 | Inhibition of RANKL-Induced Osteoclastogenesis by (â^')-DHMEQ, a Novel NF-ÎºB Inhibitor, Through Downregulation of NFATc1. Journal of Bone and Mineral Research, 2004, 20, 653-662. | 2.8 | 143 |
| 18 | Spatio-temporal Regulation of Rac1 and Cdc42 Activity during Nerve Growth Factor-induced Neurite Outgrowth in PC12 Cells. Journal of Biological Chemistry, 2004, 279, 713-719. | 3.4 | 133 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Local Phosphatidylinositol 3,4,5-Trisphosphate Accumulation Recruits Vav2 and Vav3 to Activate Rac1/Cdc42 and Initiate Neurite Outgrowth in Nerve Growth Factor-stimulated PC12 Cells. Molecular Biology of the Cell, 2005, 16, 2207-2217. | 2.1 | 132 |
| 20 | Visualization of small GTPase activity with fluorescence resonance energy transfer-based biosensors. Nature Protocols, 2009, 4, 1623-1631. | 12.0 | 127 |
| 21 | A TNF receptor loop peptide mimic blocks RANK ligandâ€“induced signaling, bone resorption, and bone loss. Journal of Clinical Investigation, 2006, 116, 1525-1534. | 8.2 | 122 |
| 22 | The tyrosine phosphatase SHP-1 is a negative regulator of osteoclastogenesis and osteoclast resorbing activity: increased resorption and osteopenia in mev/mev mutant mice. Bone, 1999, 25, 261-267. | 2.9 | 108 |
| 23 | Rap1-PDZ-GEF1 interacts with a neurotrophin receptor at late endosomes, leading to sustained activation of Rap1 and ERK and neurite outgrowth. Journal of Cell Biology, 2007, 178, 843-860. | 5.2 | 103 |
| 24 | Variegated RHOA mutations in adult T-cell leukemia/lymphoma. Blood, 2016, 127, 596-604. | 1.4 | 98 |
| 25 | Osteoclast formation and differentiation: an overview. Journal of Medical and Dental Sciences, 2012, 59, 65-74. | 0.4 | 84 |
| 26 | Multiplexed Fluorescence Imaging of ERK and Akt Activities and Cell-cycle Progression. Cell Structure and Function, 2016, 41, 81-92. | 1.1 | 80 |
| 27 | Efficient synthesis of phycocyanobilin in mammalian cells for optogenetic control of cell signaling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11962-11967. | 7.1 | 76 |
| 28 | Cell-to-Cell Heterogeneity in p38-Mediated Cross-Inhibition of JNK Causes Stochastic Cell Death. Cell Reports, 2018, 24, 2658-2668. | 6.4 | 74 |
| 29 | Suppression of NF-Î²B Increases Bone Formation and Ameliorates Osteopenia in Ovariectomized Mice. Endocrinology, 2010, 151, 4626-4634. | 2.8 | 70 |
| 30 | Stable expression of <scp>FRET</scp> biosensors: A new light in cancer research. Cancer Science, 2012, 103, 614-619. | 3.9 | 70 |
| 31 | Fluorescence resonance energy transfer imaging of cell signaling from in vitro to in vivo: Basis of biosensor construction, live imaging, and image processing. Development Growth and Differentiation, 2013, 55, 515-522. | 1.5 | 69 |
| 32 | Rapid Turnover Rate of Phosphoinositides at the Front of Migrating MDCK Cells. Molecular Biology of the Cell, 2008, 19, 4213-4223. | 2.1 | 66 |
| 33 | SH3BP1, an Exocyst-Associated RhoGAP, Inactivates Rac1 at the Front to Drive Cell Motility. Molecular Cell, 2011, 42, 650-661. | 9.7 | 66 |
| 34 | Revolving movement of a dynamic cluster of actin filaments during mitosis. Journal of Cell Biology, 2010, 191, 453-462. | 5.2 | 65 |
| 35 | Stimulation of Bone Formation in Cortical Bone of Mice Treated with a Receptor Activator of Nuclear Factor-Î²B Ligand (RANKL)-binding Peptide That Possesses Osteoclastogenesis Inhibitory Activity. Journal of Biological Chemistry, 2013, 288, 5562-5571. | 3.4 | 65 |
| 36 | An essential role for the SHIP2-dependent negative feedback loop in neuritogenesis of nerve growth factorâ€“stimulated PC12 cells. Journal of Cell Biology, 2007, 177, 817-827. | 5.2 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The pivotal role of the alternative NF-ÎºB pathway in maintenance of basal bone homeostasis and osteoclastogenesis. Journal of Bone and Mineral Research, 2010, 25, 809-818. | 2.8 | 63 |
| 38 | GTP Hydrolysis by the Rho Family GTPase TC10 Promotes Exocytic Vesicle Fusion. Developmental Cell, 2006, 11, 411-421. | 7.0 | 62 |
| 39 | Multiple Decisive Phosphorylation Sites for the Negative Feedback Regulation of SOS1 via ERK*. Journal of Biological Chemistry, 2010, 285, 33540-33548. | 3.4 | 62 |
| 40 | Bone mineral density of the mandible in ovariectomized rats: analyses using dual energy X-ray absorptiometry and peripheral quantitative computed tomography. Oral Diseases, 2003, 9, 24-28. | 3.0 | 61 |
| 41 | Microgravity promotes osteoclast activity in medaka fish reared at the international space station. Scientific Reports, 2015, 5, 14172. | 3.3 | 59 |
| 42 | Phosphorylation and activation of the Rac1 and Cdc42 GEF Asef in A431 cells stimulated by EGF. Journal of Cell Science, 2008, 121, 2635-2642. | 2.0 | 57 |
| 43 | A tumor necrosis factor receptor loop peptide mimic inhibits bone destruction to the same extent as antiâ€“tumor necrosis factor monoclonal antibody in murine collagen-induced arthritis. Arthritis and Rheumatism, 2007, 56, 1164-1174. | 6.7 | 56 |
| 44 | Monitoring spatio-temporal regulation of Ras and Rho GTPases with GFP-based FRET probes. Methods, 2005, 37, 146-153. | 3.8 | 55 |
| 45 | Processing of the NF-ÎºB2 precursor p100 to p52 is critical for RANKL-induced osteoclast differentiation. Journal of Bone and Mineral Research, 2010, 25, 1058-1067. | 2.8 | 55 |
| 46 | Trabecular bone turnover, bone marrow cell development, and gene expression of bone matrix proteins after low calcium feeding in rats. Bone, 1999, 25, 687-695. | 2.9 | 54 |
| 47 | The Scaffold Protein Shoc2/SUR-8 Accelerates the Interaction of Ras and Raf. Journal of Biological Chemistry, 2010, 285, 7818-7826. | 3.4 | 54 |
| 48 | 3DeeCellTracker, a deep learning-based pipeline for segmenting and tracking cells in 3D time lapse images. ELife, 2021, 10, . | 6.0 | 53 |
| 49 | Polysaccharide nanogel delivery of a TNF-Î± and RANKL antagonist peptide allows systemic prevention of bone loss. European Journal of Pharmaceutical Sciences, 2009, 37, 83-88. | 4.0 | 52 |
| 50 | Amelioration of bone loss in collagen-induced arthritis by neutralizing anti-RANKL monoclonal antibody. Biochemical and Biophysical Research Communications, 2006, 347, 124-132. | 2.1 | 50 |
| 51 | LPS-Induced Inhibition of Osteogenesis Is TNF-Î± Dependent in a Murine Tooth Extraction Model. Journal of Bone and Mineral Research, 2009, 24, 1770-1781. | 2.8 | 50 |
| 52 | Phytic Acid: An Alternative Root Canal Chelating Agent. Journal of Endodontics, 2015, 41, 242-247. | 3.1 | 50 |
| 53 | Peptide-based delivery to bone. Advanced Drug Delivery Reviews, 2012, 64, 1220-1238. | 13.7 | 49 |
| 54 | A Quantitative Model of ERK MAP Kinase Phosphorylation in Crowded Media. Scientific Reports, 2013, 3, 1541. | 3.3 | 49 |

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|---|---|---|---|
| 55 | Spatiotemporal Regulation of Small GTPases as Revealed by Probes Based on the Principle of FÃ¶rster Resonance Energy Transfer (FRET): Implications for Signaling and Pharmacology. Annual Review of Pharmacology and Toxicology, 2011, 51, 337-358. | 9.4 | 48 |
| 56 | p130Cas, Crk-Associated Substrate, Plays Important Roles in Osteoclastic Bone Resorption. Journal of Bone and Mineral Research, 2013, 28, 2449-2462. | 2.8 | 44 |
| 57 | Distinct predictive performance of Rac1 and Cdc42 in cell migration. Scientific Reports, 2015, 5, 17527. | 3.3 | 44 |
| 58 | Inhibition of the classical NF-Î¹B pathway prevents osteoclast bone-resorbing activity. Journal of Bone and Mineral Metabolism, 2009, 27, 131-139. | 2.7 | 43 |
| 59 | Visualization of growth signal transduction cascades in living cells with genetically encoded probes based on FÃ¶rster resonance energy transfer. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2143-2151. | 4.0 | 42 |
| 60 | Composite regulation of ERK activity dynamics underlying tumour-specific traits in the intestine. Nature Communications, 2018, 9, 2174. | 12.8 | 42 |
| 61 | FRET imaging in nerve growth cones reveals a high level of RhoA activity within the peripheral domain. Molecular Brain Research, 2005, 139, 277-287. | 2.3 | 40 |
| 62 | Inhibition of BMP2-Induced Bone Formation by the p65 Subunit of NF-Î¹B via an Interaction With Smad4. Molecular Endocrinology, 2014, 28, 1460-1470. | 3.7 | 40 |
| 63 | Development of a FRET Biosensor with High Specificity for Akt. Cell Structure and Function, 2014, 39, 9-20. | 1.1 | 36 |
| 64 | The inhibitory effects of a RANKL-binding peptide on articular and periarticular bone loss in a murine model of collagen-induced arthritis: a bone histomorphometric study. Arthritis Research and Therapy, 2015, 17, 251. | 3.5 | 36 |
| 65 | Ras and Calcium Signaling Pathways Converge at Raf1 via the Shoc2 Scaffold Protein. Molecular Biology of the Cell, 2010, 21, 1088-1096. | 2.1 | 34 |
| 66 | Decontamination of Anodized Implant Surface With Different Modalities for Periâ€implantitis Treatment: Lasers and Mechanical Debridement With Citric Acid. Journal of Periodontology, 2016, 87, 953-961. | 3.4 | 34 |
| 67 | Quantitative In Vivo Fluorescence Cross-Correlation Analyses Highlight the Importance of Competitive Effects in the Regulation of Protein-Protein Interactions. Molecular and Cellular Biology, 2014, 34, 3272-3290. | 2.3 | 33 |
| 68 | FRET imaging and statistical signal processing reveal positive and negative feedback loops regulating the morphology of randomly migrating HT-1080 cells.. Journal of Cell Science, 2012, 125, 2381-92. | 2.0 | 32 |
| 69 | Disruption of NF-Î¹B1 prevents bone loss caused by mechanical unloading. Journal of Bone and Mineral Research, 2013, 28, 1457-1467. | 2.8 | 32 |
| 70 | Lowâ€level ultrahighâ€frequency and ultrashortâ€pulse blue laser irradiation enhances osteoblast extracellular calcification by upregulating proliferation and differentiation via transient receptor potential vanilloid 1. Lasers in Surgery and Medicine, 2018, 50, 340-352. | 2.1 | 32 |
| 71 | Ligature induced periâ€implantitis: tissue destruction and inflammatory progression in a murine model. Clinical Oral Implants Research, 2017, 28, 129-136. | 4.5 | 31 |
| 72 | Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. Nature Communications, 2021, 12, 7145. | 12.8 | 30 |

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|---|---|---|---|
| 73 | CXCL2 synthesized by oral squamous cell carcinoma is involved in cancer-associated bone destruction. Biochemical and Biophysical Research Communications, 2012, 424, 456-461. | 2.1 | 29 |
| 74 | Selective inhibition of NFâ€ÎºB suppresses bone invasion by oral squamous cell carcinoma in vivo. International Journal of Cancer, 2012, 131, E625-35. | 5.1 | 29 |
| 75 | The deficiency of immunoregulatory receptor PD-1 causes mild osteopetrosis. Bone, 2004, 35, 1059-1068. | 2.9 | 28 |
| 76 | NF-ÎºB inhibitor dehydroxymethylepoxyquinomicin suppresses osteoclastogenesis and expression of NFATc1 in mouse arthritis without affecting expression of RANKL, osteoprotegerin or macrophage colony-stimulating factor. Arthritis Research and Therapy, 2007, 9, R97. | 3.5 | 27 |
| 77 | Signaling, Deconstructed: Using Optogenetics to Dissect and Direct Information Flow in Biological Systems. Annual Review of Biomedical Engineering, 2021, 23, 61-87. | 12.3 | 26 |
| 78 | Accumulation of p100, a Precursor of NF-ÎºB2, Enhances Osteoblastic Differentiationin Vitroand Bone Formationin Vivoinaly/alyMice. Molecular Endocrinology, 2012, 26, 414-422. | 3.7 | 25 |
| 79 | Quantitative analysis of recombination between YFP and CFP genes of FRET biosensors introduced by lentiviral or retroviral gene transfer. Scientific Reports, 2015, 5, 13283. | 3.3 | 25 |
| 80 | Peptide drugs accelerate BMPâ€2â€induced calvarial bone regeneration and stimulate osteoblast differentiation through mTORC1 signaling. BioEssays, 2016, 38, 717-725. | 2.5 | 25 |
| 81 | Quantification of Local Morphodynamics and Local GTPase Activity by Edge Evolution Tracking. PLoS Computational Biology, 2008, 4, e1000223. | 3.2 | 23 |
| 82 | A novel underuse model shows that inactivity but not ovariectomy determines the deteriorated material properties and geometry of cortical bone in the tibia of adult rats. Journal of Bone and Mineral Metabolism, 2011, 29, 422-436. | 2.7 | 23 |
| 83 | Live-cell Imaging with Genetically Encoded Protein Kinase Activity Reporters. Cell Structure and Function, 2018, 43, 61-74. | 1.1 | 23 |
| 84 | Fluorescence resonance energy transfer based quantitative analysis of feedforward and feedback loops in epidermal growth factor receptor signaling and the sensitivity to molecular targeting drugs. FEBS Journal, 2014, 281, 3177-3192. | 4.7 | 22 |
| 85 | Improvement of Phycocyanobilin Synthesis for Genetically Encoded Phytochrome-Based Optogenetics. ACS Chemical Biology, 2020, 15, 2896-2906. | 3.4 | 22 |
| 86 | Engineering Orthogonal, Plasma Membrane-Specific SLIPT Systems for Multiplexed Chemical Control of Signaling Pathways in Living Single Cells. ACS Chemical Biology, 2020, 15, 1004-1015. | 3.4 | 22 |
| 87 | A novel inhibitor of NF-ÎºB-inducing kinase prevents bone loss by inhibiting osteoclastic bone resorption in ovariectomized mice. Bone, 2020, 135, 115316. | 2.9 | 21 |
| 88 | The local administration of TNF-Î± and RANKL antagonist peptide promotes BMP-2-induced bone formation. Journal of Oral Biosciences, 2013, 55, 47-54. | 2.2 | 19 |
| 89 | Delivery of RANKL-Binding Peptide OP3-4 Promotes BMP-2â€“Induced Maxillary Bone Regeneration. Journal of Dental Research, 2016, 95, 665-672. | 5.2 | 19 |
| 90 | Bacterial Inhibition and Osteoblast Adhesion on Ti Alloy Surfaces Modified by Poly(PEGMA-r-Phosmer) Coating. ACS Applied Materials & Interfaces, 2018, 10, 23674-23681. | 8.0 | 19 |

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|---|---|---|---|
| 91 | Single-cell quantification of the concentrations and dissociation constants of endogenous proteins. Journal of Biological Chemistry, 2019, 294, 6062-6072. | 3.4 | 19 |
| 92 | A tumor necrosis factor-alpha antagonist inhibits inflammatory bone resorption induced by Porphyromonas gingivalis infection in mice. Journal of Periodontal Research, 2006, 41, 81-91. | 2.7 | 18 |
| 93 | Gelatin Hydrogel as a Carrier of Recombinant Human Fibroblast Growth Factor-2 During Rat Mandibular Distraction. Journal of Oral and Maxillofacial Surgery, 2014, 72, 2015-2031. | 1.2 | 18 |
| 94 | A peptide that blocks the interaction of NFâ€ºB p65 subunit with Smad4 enhances BMP2â€induced osteogenesis. Journal of Cellular Physiology, 2018, 233, 7356-7366. | 4.1 | 18 |
| 95 | Synergistic antitumor effects of combination PI3K/mTOR and MEK inhibition (SAR245409 and pimasertib) in mucinous ovarian carcinoma cells by fluorescence resonance energy transfer imaging. Oncotarget, 2016, 7, 29577-29591. | 1.8 | 18 |
| 96 | Redundant roles of EGFR ligands in the ERK activation waves during collective cell migration. Life Science Alliance, 2022, 5, e202101206. | 2.8 | 18 |
| 97 | Regional distinctions in cortical bone mineral density measured by pQCT can predict alterations in material property at the tibial diaphysis of the Cynomolgus monkey. Bone, 2006, 38, 265-272. | 2.9 | 17 |
| 98 | Lipopolysaccharide-induced bone resorption is increased in TNF type 2 receptor-deficient mice in vivo. Journal of Bone and Mineral Metabolism, 2008, 26, 469-477. | 2.7 | 17 |
| 99 | Increased bone mass in adult prostacyclin-deficient mice. Journal of Endocrinology, 2010, 204, 125-133. | 2.6 | 17 |
| 100 | NF-ÎºB RELA-deficient bone marrow macrophages fail to support bone formation and to maintain the hematopoietic niche after lethal irradiation and stem cell transplantation. International Immunology, 2014, 26, 607-618. | 4.0 | 17 |
| 101 | Shedding light on developmental ERK signaling with genetically encoded biosensors. Development (Cambridge), 2021, 148, . | 2.5 | 17 |
| 102 | The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. Biochemical and Biophysical Research Communications, 2019, 509, 435-440. | 2.1 | 16 |
| 103 | Ingrown Nails: A Comparison of the Nail Matrix Phenolization Method with the Elevation of the Nail Bedâ€Periosteal Flap Procedure. Journal of Dermatology, 1998, 25, 1-4. | 1.2 | 15 |
| 104 | A novel therapeutic vaccine approach, targeting RANKL, prevents bone destruction in bone-related disorders. Journal of Bone and Mineral Metabolism, 2002, 20, 266-268. | 2.7 | 15 |
| 105 | The tumor necrosis factor type 2 receptor plays a protective role in tumor necrosis factor-Î±-induced bone resorption lacunae on mouse calvariae. Journal of Bone and Mineral Metabolism, 2011, 29, 671-681. | 2.7 | 15 |
| 106 | The influence of mechanical stimulation on osteoclast localization in the mouse maxilla: bone histomorphometry and finite element analysis. Biomechanics and Modeling in Mechanobiology, 2013, 12, 325-333. | 2.8 | 15 |
| 107 | Improved secretion of glycoproteins using an N-glycan-restricted passport sequence tag recognized by cargo receptor. Nature Communications, 2020, 11, 1368. | 12.8 | 15 |
| 108 | The novel IÎºB kinase Î² inhibitor IMD-0560 prevents bone invasion by oral squamous cell carcinoma. Oncotarget, 2014, 5, 12317-12330. | 1.8 | 15 |

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|---|---|---|---|
| 109 | Near-infrared imaging in fission yeast using a genetically encoded phycocyanobilin biosynthesis system. Journal of Cell Science, 2021, 134, . | 2.0 | 15 |
| 110 | A novel red fluorescence dopamine biosensor selectively detects dopamine in the presence of norepinephrine in vitro. Molecular Brain, 2021, 14, 173. | 2.6 | 15 |
| 111 | Effect of ascorbic acid deficiency on primary and reparative dentinogenesis in non-ascorbate-synthesizing ods rats. Archives of Oral Biology, 1997, 42, 695-704. | 1.8 | 14 |
| 112 | Bovine deciduous dentine is more susceptible to osteoclastic resorption than permanent dentine: results of quantitative analyses. Journal of Bone and Mineral Metabolism, 2006, 24, 248-254. | 2.7 | 14 |
| 113 | Gelatin hydrogel carrier with the W9-peptide elicits synergistic effects on BMP-2-induced bone regeneration. Journal of Oral Biosciences, 2013, 55, 217-223. | 2.2 | 14 |
| 114 | A microtubuleâ€ŁZP1 association around tight junction promotes epithelial cell apical constriction. EMBO Journal, 2021, 40, e104712. | 7.8 | 14 |
| 115 | Characterization of pulp and follicle stem cells from impacted supernumerary maxillary incisors. Pediatric Dentistry (discontinued), 2014, 36, 79-84. | 0.4 | 14 |
| 116 | Bovine dentine organic matrix down-regulates osteoclast activity. Journal of Bone and Mineral Metabolism, 2009, 27, 315-323. | 2.7 | 13 |
| 117 | Defective nuclear factor-ÎºB-inducing kinase in aly/aly mice prevents bone resorption induced by local injection of lipopolysaccharide. Journal of Periodontal Research, 2011, 46, 280-284. | 2.7 | 13 |
| 118 | Peptide-induced de novo bone formation after tooth extraction prevents alveolar bone loss in a murine tooth extraction model. European Journal of Pharmacology, 2016, 782, 89-97. | 3.5 | 13 |
| 119 | Gene expression of bone matrix proteins in a calcified tissue appeared in subcutaneously transplanted rat dental pulp. Journal of Medical and Dental Sciences, 2002, 49, 57-66. | 0.4 | 13 |
| 120 | Visualization of Neuregulin 1 ectodomain shedding reveals its local processing in vitro and in vivo. Scientific Reports, 2016, 6, 28873. | 3.3 | 12 |
| 121 | Effect of load-induced local mechanical strain on peri-implant bone cell activity related to bone resorption and formation in mice: An analysis of histology and strain distributions. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104370. | 3.1 | 12 |
| 122 | Occlusal disharmony-induced stress causes osteopenia of the lumbar vertebrae and long bones in mice. Scientific Reports, 2018, 8, 173. | 3.3 | 11 |
| 123 | Appearance of electron-dense segments: indication of possible conformational changes of pre-mineralizing collagen fibrils in the osteoid of rat bones. Journal of Electron Microscopy, 2004, 53, 423-433. | 0.9 | 10 |
| 124 | Nanogel-crosslinked nanoparticles increase the inhibitory effects of W9 synthetic peptide on bone loss in a murine bone resorption model. International Journal of Nanomedicine, 2015, 10, 3459. | 6.7 | 10 |
| 125 | The intra-articular injection of RANKL-binding peptides inhibits cartilage degeneration in a murine model of osteoarthritis. Journal of Pharmacological Sciences, 2017, 134, 124-130. | 2.5 | 10 |
| 126 | Effect of doxycycline-treated hydroxyapatite surface on bone apposition: A histomophometric study in murine maxillae. Dental Materials Journal, 2018, 37, 130-138. | 1.8 | 10 |

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|---|---|---|---|
| 127 | Three-dimensional characterization of osteoclast bone-resorbing activity in the resorption lacunae. Journal of Medical and Dental Sciences, 2009, 56, 107-12. | 0.4 | 10 |
| 128 | A disulfide bond replacement strategy enables the efficient design of artificial therapeutic peptides. Tetrahedron, 2014, 70, 7774-7779. | 1.9 | 9 |
| 129 | A threshold of mechanical strain intensity for the direct activation of osteoblast function exists in a murine maxilla loading model. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1091-1100. | 2.8 | 9 |
| 130 | Bone morphogenetic protein induces bone invasion of melanoma by epithelialâ€“mesenchymal transition via the Smad1/5 signaling pathway. Laboratory Investigation, 2021, 101, 1475-1483. | 3.7 | 9 |
| 131 | Effects of neurectomy and tenotomy on the bone mineral density and strength of tibiae. Acta Astronautica, 2001, 49, 179-190. | 3.2 | 8 |
| 132 | Improvement of the bioluminescence reporter system for real-time monitoring of circadian rhythms in the cyanobacterium Synechocystis sp. strain PCC 6803. Genes and Genetic Systems, 2005, 80, 19-23. | 0.7 | 8 |
| 133 | FRET imaging and in silico simulation: analysis of the signaling network of nerve growth factor-induced neuritogenesis. Brain Cell Biology, 2008, 36, 19-30. | 3.2 | 8 |
| 134 | A structural modulator of tumor necrosis factor type 1 receptor promotes bone formation under lipopolysaccharide-induced inflammation in a murine tooth extraction model. European Journal of Pharmacology, 2012, 679, 132-138. | 3.5 | 8 |
| 135 | TGF-Î² in dentin matrix extract induces osteoclastogenesis in vitro. Odontology / the Society of the Nippon Dental University, 2015, 103, 9-18. | 1.9 | 8 |
| 136 | Inverse tissue mechanics of cell monolayer expansion. PLoS Computational Biology, 2018, 14, e1006029. | 3.2 | 8 |
| 137 | Subcutaneous injections of a TNF-alpha antagonistic peptide inhibit both inflammation and bone resorption in collagen-induced murine arthritis. Journal of Medical and Dental Sciences, 2005, 52, 91-9. | 0.4 | 8 |
| 138 | CDCP1 promotes compensatory renal growth by integrating Src and Met signaling. Life Science Alliance, 2021, 4, e202000832. | 2.8 | 7 |
| 139 | Clodronate stimulates bone formation as well as inhibits bone resorption and increases bone mineral density in rats fed a low-calcium diet. Journal of Medical and Dental Sciences, 2003, 50, 121-32. | 0.4 | 7 |
| 140 | A chemogenetic platform for controlling plasma membrane signaling and synthetic signal oscillation. Cell Chemical Biology, 2022, 29, 1446-1464.e10. | 5.2 | 7 |
| 141 | Effect of recombinant human fibroblast growth factorâ€2 on bone formation in rabbit mandibular distraction models using Î²â€tricalcium phosphate. Congenital Anomalies (discontinued), 2010, 50, 95-104. | 0.6 | 6 |
| 142 | Effective expansion of engrafted human hematopoietic stem cells in bone marrow of mice expressing human Jagged1. Experimental Hematology, 2014, 42, 487-494.e1. | 0.4 | 6 |
| 143 | Visualization and Manipulation of Intracellular Signaling. Advances in Experimental Medicine and Biology, 2021, 1293, 225-234. | 1.6 | 6 |
| 144 | Non-invasive densitometric and histomorphometric study of the regenerated bone in the distraction gap in rabbits. Journal of Medical and Dental Sciences, 2000, 47, 197-207. | 0.4 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | The Effects of Hyperbaric Oxygen on Tooth Movement into the Regenerated Area after Distraction Osteogenesis. Cleft Palate-Craniofacial Journal, 2010, 47, 382-392. | 0.9 | 5 |
| 146 | Bifâ€1/Endophilin B1/SH3GLB1 regulates bone homeostasis. Journal of Cellular Biochemistry, 2019, 120, 18793-18804. | 2.6 | 5 |
| 147 | An osteogenic helioxanthin derivative suppresses the formation of bone-resorbing osteoclasts. Regenerative Therapy, 2019, 11, 290-296. | 3.0 | 4 |
| 148 | The Effects of Receptor Activator of NF-ÎºB Ligand-Binding Peptides on Bone Resorption and Bone Formation. Frontiers in Cell and Developmental Biology, 2021, 9, 648084. | 3.7 | 4 |
| 149 | A self-exciting point process to study multicellular spatial signaling patterns. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 4 |
| 150 | Identification of ksg1 mutation showing longâ€lived phenotype in fission yeast. Genes To Cells, 2021, 26, 967-978. | 1.2 | 4 |
| 151 | Two New FRET Imaging Measures: Linearly Proportional to and Highly Contrasting the Fraction of Active Molecules. PLoS ONE, 2016, 11, e0164254. | 2.5 | 4 |
| 152 | Quantitative live-cell imaging of GPCR downstream signaling dynamics. Biochemical Journal, 2022, 479, 883-900. | 3.7 | 4 |
| 153 | Amount of Bone Lengthening Affects Blood Flow Recovery and Bone Mineralization after Distraction Osteogenesis in a Canine Cleft Palate Model. Cleft Palate-Craniofacial Journal, 2010, 47, 303-313. | 0.9 | 3 |
| 154 | Biophysical research in Okazaki, Japan. Biophysical Reviews, 2020, 12, 237-243. | 3.2 | 3 |
| 155 | Hierarchical modeling of mechano-chemical dynamics of epithelial sheets across cells and tissue. Scientific Reports, 2021, 11, 4069. | 3.3 | 3 |
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