

Kazuhiro Aoki

List of Publications by Year in descending order

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Version: 2024-02-01

166
papers

9,218
citations

41344

49
h-index

46799

89
g-index

196
all docs

196
docs citations

196
times ranked

12127
citing authors

#	ARTICLE	IF	CITATIONS
1	Redundant roles of EGFR ligands in the ERK activation waves during collective cell migration. <i>Life Science Alliance</i> , 2022, 5, e202101206.	2.8	18
2	Quantitative live-cell imaging of GPCR downstream signaling dynamics. <i>Biochemical Journal</i> , 2022, 479, 883-900.	3.7	4
3	Perforated Hydrogels Consisting of Cholesterol-Bearing Pullulan (CHP) Nanogels: A Newly Designed Scaffold for Bone Regeneration Induced by RANKL-Binding Peptides and BMP-2. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7768.	4.1	2
4	A chemogenetic platform for controlling plasma membrane signaling and synthetic signal oscillation. <i>Cell Chemical Biology</i> , 2022, 29, 1446-1464.e10.	5.2	7
5	A pilot study to investigate the histomorphometric changes of murine maxillary bone around the site of mini-screw insertion in regenerated bone induced by anabolic reagents. <i>European Journal of Orthodontics</i> , 2021, 43, 86-93.	2.4	2
6	Visualization and Manipulation of Intracellular Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1293, 225-234.	1.6	6
7	Hierarchical modeling of mechano-chemical dynamics of epithelial sheets across cells and tissue. <i>Scientific Reports</i> , 2021, 11, 4069.	3.3	3
8	CDCP1 promotes compensatory renal growth by integrating Src and Met signaling. <i>Life Science Alliance</i> , 2021, 4, e202000832.	2.8	7
9	3DeeCellTracker, a deep learning-based pipeline for segmenting and tracking cells in 3D time lapse images. <i>ELife</i> , 2021, 10, .	6.0	53
10	Oncogenic mutation or overexpression of oncogenic KRAS or BRAF is not sufficient to confer oncogene addiction. <i>PLoS ONE</i> , 2021, 16, e0249388.	2.5	2
11	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. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104370.	3.1	12
12	The Effects of Receptor Activator of NF- κ B Ligand-Binding Peptides on Bone Resorption and Bone Formation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 648084.	3.7	4
13	Signaling, Deconstructed: Using Optogenetics to Dissect and Direct Information Flow in Biological Systems. <i>Annual Review of Biomedical Engineering</i> , 2021, 23, 61-87.	12.3	26
14	Shedding light on developmental ERK signaling with genetically encoded biosensors. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	17
15	A self-exciting point process to study multicellular spatial signaling patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	4
16	Bone morphogenetic protein induces bone invasion of melanoma by epithelial \rightarrow mesenchymal transition via the Smad1/5 signaling pathway. <i>Laboratory Investigation</i> , 2021, 101, 1475-1483.	3.7	9
17	Identification of <i>ksg1</i> mutation showing long-lived phenotype in fission yeast. <i>Genes To Cells</i> , 2021, 26, 967-978.	1.2	4
18	Tetracycline, an Appropriate Reagent for Measuring Bone-Formation Activity in the Murine Model of the <i>Streptococcus mutans</i> -Induced Bone Loss. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 714366.	3.9	2

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19	A microtubule- α -LIZP1 association around tight junction promotes epithelial cell apical constriction. <i>EMBO Journal</i> , 2021, 40, e104712.	7.8	14
20	Near-infrared imaging in fission yeast using a genetically encoded phycocyanobilin biosynthesis system. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	15
21	Optogenetic relaxation of actomyosin contractility uncovers mechanistic roles of cortical tension during cytokinesis. <i>Nature Communications</i> , 2021, 12, 7145.	12.8	30
22	A novel red fluorescence dopamine biosensor selectively detects dopamine in the presence of norepinephrine in vitro. <i>Molecular Brain</i> , 2021, 14, 173.	2.6	15
23	Improvement of Phycocyanobilin Synthesis for Genetically Encoded Phytochrome-Based Optogenetics. <i>ACS Chemical Biology</i> , 2020, 15, 2896-2906.	3.4	22
24	ERK-Mediated Mechanochemical Waves Direct Collective Cell Polarization. <i>Developmental Cell</i> , 2020, 53, 646-660.e8.	7.0	152
25	Engineering Orthogonal, Plasma Membrane-Specific SLIPT Systems for Multiplexed Chemical Control of Signaling Pathways in Living Single Cells. <i>ACS Chemical Biology</i> , 2020, 15, 1004-1015.	3.4	22
26	Biophysical research in Okazaki, Japan. <i>Biophysical Reviews</i> , 2020, 12, 237-243.	3.2	3
27	A novel inhibitor of NF- κ B-inducing kinase prevents bone loss by inhibiting osteoclastic bone resorption in ovariectomized mice. <i>Bone</i> , 2020, 135, 115316.	2.9	21
28	Improved secretion of glycoproteins using an N-glycan-restricted passport sequence tag recognized by cargo receptor. <i>Nature Communications</i> , 2020, 11, 1368.	12.8	15
29	Bif-1/Endophilin B1/SH3GLB1 regulates bone homeostasis. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 18793-18804.	2.6	5
30	An osteogenic helioxanthin derivative suppresses the formation of bone-resorbing osteoclasts. <i>Regenerative Therapy</i> , 2019, 11, 290-296.	3.0	4
31	Single-cell quantification of the concentrations and dissociation constants of endogenous proteins. <i>Journal of Biological Chemistry</i> , 2019, 294, 6062-6072.	3.4	19
32	The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2019, 509, 435-440.	2.1	16
33	A peptide that blocks the interaction of NF- κ B p65 subunit with Smad4 enhances BMP2-induced osteogenesis. <i>Journal of Cellular Physiology</i> , 2018, 233, 7356-7366.	4.1	18
34	Occlusal disharmony-induced stress causes osteopenia of the lumbar vertebrae and long bones in mice. <i>Scientific Reports</i> , 2018, 8, 173.	3.3	11
35	Live-cell Imaging with Genetically Encoded Protein Kinase Activity Reporters. <i>Cell Structure and Function</i> , 2018, 43, 61-74.	1.1	23
36	Low-level ultrahigh-frequency and ultrashort-pulse blue laser irradiation enhances osteoblast extracellular calcification by upregulating proliferation and differentiation via transient receptor potential vanilloid 1. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 340-352.	2.1	32

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37	Coupling of bone resorption and formation by RANKL reverse signalling. <i>Nature</i> , 2018, 561, 195-200.	27.8	376
38	Cell-to-Cell Heterogeneity in p38-Mediated Cross-Inhibition of JNK Causes Stochastic Cell Death. <i>Cell Reports</i> , 2018, 24, 2658-2668.	6.4	74
39	Bacterial Inhibition and Osteoblast Adhesion on Ti Alloy Surfaces Modified by Poly(PEGMA- <i>r</i> -Phosmer) Coating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23674-23681.	8.0	19
40	Effect of doxycycline-treated hydroxyapatite surface on bone apposition: A histomophometric study in murine maxillae. <i>Dental Materials Journal</i> , 2018, 37, 130-138.	1.8	10
41	Composite regulation of ERK activity dynamics underlying tumour-specific traits in the intestine. <i>Nature Communications</i> , 2018, 9, 2174.	12.8	42
42	Inverse tissue mechanics of cell monolayer expansion. <i>PLoS Computational Biology</i> , 2018, 14, e1006029.	3.2	8
43	Ligature induced peri-implantitis: tissue destruction and inflammatory progression in a murine model. <i>Clinical Oral Implants Research</i> , 2017, 28, 129-136.	4.5	31
44	Efficient synthesis of phycocyanobilin in mammalian cells for optogenetic control of cell signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11962-11967.	7.1	76
45	Propagating Wave of ERK Activation Orients Collective Cell Migration. <i>Developmental Cell</i> , 2017, 43, 305-317.e5.	7.0	209
46	The intra-articular injection of RANKL-binding peptides inhibits cartilage degeneration in a murine model of osteoarthritis. <i>Journal of Pharmacological Sciences</i> , 2017, 134, 124-130.	2.5	10
47	Visualization of Neuregulin 1 ectodomain shedding reveals its local processing in vitro and in vivo. <i>Scientific Reports</i> , 2016, 6, 28873.	3.3	12
48	Delivery of RANKL-Binding Peptide OP3-4 Promotes BMP-2-Induced Maxillary Bone Regeneration. <i>Journal of Dental Research</i> , 2016, 95, 665-672.	5.2	19
49	Peptide-induced de novo bone formation after tooth extraction prevents alveolar bone loss in a murine tooth extraction model. <i>European Journal of Pharmacology</i> , 2016, 782, 89-97.	3.5	13
50	Peptide drugs accelerate BMP-2-induced calvarial bone regeneration and stimulate osteoblast differentiation through mTORC1 signaling. <i>BioEssays</i> , 2016, 38, 717-725.	2.5	25
51	Variegated RHOA mutations in adult T-cell leukemia/lymphoma. <i>Blood</i> , 2016, 127, 596-604.	1.4	98
52	Multiplexed Fluorescence Imaging of ERK and Akt Activities and Cell-cycle Progression. <i>Cell Structure and Function</i> , 2016, 41, 81-92.	1.1	80
53	Decontamination of Anodized Implant Surface With Different Modalities for Peri-implantitis Treatment: Lasers and Mechanical Debridement With Citric Acid. <i>Journal of Periodontology</i> , 2016, 87, 953-961.	3.4	34
54	A threshold of mechanical strain intensity for the direct activation of osteoblast function exists in a murine maxilla loading model. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1091-1100.	2.8	9

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55	Synergistic antitumor effects of combination PI3K/mTOR and MEK inhibition (SAR245409 and pimasertib) in mucinous ovarian carcinoma cells by fluorescence resonance energy transfer imaging. <i>Oncotarget</i> , 2016, 7, 29577-29591.	1.8	18
56	Two New FRET Imaging Measures: Linearly Proportional to and Highly Contrasting the Fraction of Active Molecules. <i>PLoS ONE</i> , 2016, 11, e0164254.	2.5	4
57	Microgravity promotes osteoclast activity in medaka fish reared at the international space station. <i>Scientific Reports</i> , 2015, 5, 14172.	3.3	59
58	Distinct predictive performance of Rac1 and Cdc42 in cell migration. <i>Scientific Reports</i> , 2015, 5, 17527.	3.3	44
59	Quantitative analysis of recombination between YFP and CFP genes of FRET biosensors introduced by lentiviral or retroviral gene transfer. <i>Scientific Reports</i> , 2015, 5, 13283.	3.3	25
60	Nanogel-crosslinked nanoparticles increase the inhibitory effects of W9 synthetic peptide on bone loss in a murine bone resorption model. <i>International Journal of Nanomedicine</i> , 2015, 10, 3459.	6.7	10
61	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. <i>Arthritis Research and Therapy</i> , 2015, 17, 251.	3.5	36
62	Phytic Acid: An Alternative Root Canal Chelating Agent. <i>Journal of Endodontics</i> , 2015, 41, 242-247.	3.1	50
63	TGF- β 2 in dentin matrix extract induces osteoclastogenesis in vitro. <i>Odontology / the Society of the Nippon Dental University</i> , 2015, 103, 9-18.	1.9	8
64	Intercellular propagation of extracellular signal-regulated kinase activation revealed by in vivo imaging of mouse skin. <i>ELife</i> , 2015, 4, e05178.	6.0	202
65	Visualization of Intracellular Signaling with Fluorescence Resonance Energy Transfer-Based Biosensors. , 2015, , 31-41.		1
66	Impact of Radiation on Hematopoietic Niche. <i>Pancreatic Islet Biology</i> , 2015, , 147-160.	0.3	0
67	Development of a FRET Biosensor with High Specificity for Akt. <i>Cell Structure and Function</i> , 2014, 39, 9-20.	1.1	36
68	Quantitative <i>In Vivo</i> Fluorescence Cross-Correlation Analyses Highlight the Importance of Competitive Effects in the Regulation of Protein-Protein Interactions. <i>Molecular and Cellular Biology</i> , 2014, 34, 3272-3290.	2.3	33
69	NF- κ B RELA-deficient bone marrow macrophages fail to support bone formation and to maintain the hematopoietic niche after lethal irradiation and stem cell transplantation. <i>International Immunology</i> , 2014, 26, 607-618.	4.0	17
70	Inhibition of BMP2-Induced Bone Formation by the p65 Subunit of NF- κ B via an Interaction With Smad4. <i>Molecular Endocrinology</i> , 2014, 28, 1460-1470.	3.7	40
71	Effective expansion of engrafted human hematopoietic stem cells in bone marrow of mice expressing human Jagged1. <i>Experimental Hematology</i> , 2014, 42, 487-494.e1.	0.4	6
72	Gelatin Hydrogel as a Carrier of Recombinant Human Fibroblast Growth Factor-2 During Rat Mandibular Distraction. <i>Journal of Oral and Maxillofacial Surgery</i> , 2014, 72, 2015-2031.	1.2	18

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73	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. <i>FEBS Journal</i> , 2014, 281, 3177-3192.	4.7	22
74	A disulfide bond replacement strategy enables the efficient design of artificial therapeutic peptides. <i>Tetrahedron</i> , 2014, 70, 7774-7779.	1.9	9
75	The novel $\text{I}\kappa\text{B}$ kinase I^2 inhibitor IMD-0560 prevents bone invasion by oral squamous cell carcinoma. <i>Oncotarget</i> , 2014, 5, 12317-12330.	1.8	15
76	Characterization of pulp and follicle stem cells from impacted supernumerary maxillary incisors. <i>Pediatric Dentistry (discontinued)</i> , 2014, 36, 79-84.	0.4	14
77	Fluorescence resonance energy transfer imaging of cell signaling from <i>in vitro</i> to <i>in vivo</i> : Basis of biosensor construction, live imaging, and image processing. <i>Development Growth and Differentiation</i> , 2013, 55, 515-522.	1.5	69
78	Gelatin hydrogel carrier with the W9-peptide elicits synergistic effects on BMP-2-induced bone regeneration. <i>Journal of Oral Biosciences</i> , 2013, 55, 217-223.	2.2	14
79	Stochastic ERK Activation Induced by Noise and Cell-to-Cell Propagation Regulates Cell Density-Dependent Proliferation. <i>Molecular Cell</i> , 2013, 52, 529-540.	9.7	275
80	The local administration of TNF- α and RANKL antagonist peptide promotes BMP-2-induced bone formation. <i>Journal of Oral Biosciences</i> , 2013, 55, 47-54.	2.2	19
81	Disruption of NF- κB 1 prevents bone loss caused by mechanical unloading. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1457-1467.	2.8	32
82	The influence of mechanical stimulation on osteoclast localization in the mouse maxilla: bone histomorphometry and finite element analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 325-333.	2.8	15
83	p130Cas, Crk-Associated Substrate, Plays Important Roles in Osteoclastic Bone Resorption. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 2449-2462.	2.8	44
84	Stimulation of Bone Formation in Cortical Bone of Mice Treated with a Receptor Activator of Nuclear Factor- κB Ligand (RANKL)-binding Peptide That Possesses Osteoclastogenesis Inhibitory Activity. <i>Journal of Biological Chemistry</i> , 2013, 288, 5562-5571.	3.4	65
85	A Quantitative Model of ERK MAP Kinase Phosphorylation in Crowded Media. <i>Scientific Reports</i> , 2013, 3, 1541.	3.3	49
86	Accumulation of p100, a Precursor of NF- κB 2, Enhances Osteoblastic Differentiation <i>in Vitro</i> and Bone Formation <i>in Vivo</i> in <i>aly/aly</i> Mice. <i>Molecular Endocrinology</i> , 2012, 26, 414-422.	3.7	25
87	FRET imaging and statistical signal processing reveal positive and negative feedback loops regulating the morphology of randomly migrating HT-1080 cells. <i>Journal of Cell Science</i> , 2012, 125, 2381-92.	2.0	32
88	Peptide-based delivery to bone. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1220-1238.	13.7	49
89	CXCL2 synthesized by oral squamous cell carcinoma is involved in cancer-associated bone destruction. <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 456-461.	2.1	29
90	Selective inhibition of NF- κB suppresses bone invasion by oral squamous cell carcinoma <i>in vivo</i> . <i>International Journal of Cancer</i> , 2012, 131, E625-35.	5.1	29

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91	A structural modulator of tumor necrosis factor type 1 receptor promotes bone formation under lipopolysaccharide-induced inflammation in a murine tooth extraction model. <i>European Journal of Pharmacology</i> , 2012, 679, 132-138.	3.5	8
92	Stable expression of <scp>FRET</scp> biosensors: A new light in cancer research. <i>Cancer Science</i> , 2012, 103, 614-619.	3.9	70
93	Osteoclast formation and differentiation: an overview. <i>Journal of Medical and Dental Sciences</i> , 2012, 59, 65-74.	0.4	84
94	Spatiotemporal Regulation of Small GTPases as Revealed by Probes Based on the Principle of Förster Resonance Energy Transfer (FRET): Implications for Signaling and Pharmacology. <i>Annual Review of Pharmacology and Toxicology</i> , 2011, 51, 337-358.	9.4	48
95	SH3BP1, an Exocyst-Associated RhoGAP, Inactivates Rac1 at the Front to Drive Cell Motility. <i>Molecular Cell</i> , 2011, 42, 650-661.	9.7	66
96	Defective nuclear factor- κ B-inducing kinase in <i>aly/aly</i> mice prevents bone resorption induced by local injection of lipopolysaccharide. <i>Journal of Periodontal Research</i> , 2011, 46, 280-284.	2.7	13
97	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. <i>Journal of Bone and Mineral Metabolism</i> , 2011, 29, 422-436.	2.7	23
98	The tumor necrosis factor type 2 receptor plays a protective role in tumor necrosis factor- α -induced bone resorption lacunae on mouse calvariae. <i>Journal of Bone and Mineral Metabolism</i> , 2011, 29, 671-681.	2.7	15
99	Development of an optimized backbone of FRET biosensors for kinases and GTPases. <i>Molecular Biology of the Cell</i> , 2011, 22, 4647-4656.	2.1	529
100	Processive phosphorylation of ERK MAP kinase in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12675-12680.	7.1	157
101	The pivotal role of the alternative NF- κ B pathway in maintenance of basal bone homeostasis and osteoclastogenesis. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 809-818.	2.8	63
102	Processing of the NF- κ B2 precursor p100 to p52 is critical for RANKL-induced osteoclast differentiation. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1058-1067.	2.8	55
103	The Effects of Hyperbaric Oxygen on Tooth Movement into the Regenerated Area after Distraction Osteogenesis. <i>Cleft Palate-Craniofacial Journal</i> , 2010, 47, 382-392.	0.9	5
104	Amount of Bone Lengthening Affects Blood Flow Recovery and Bone Mineralization after Distraction Osteogenesis in a Canine Cleft Palate Model. <i>Cleft Palate-Craniofacial Journal</i> , 2010, 47, 303-313.	0.9	3
105	Effect of recombinant human fibroblast growth factor-2 on bone formation in rabbit mandibular distraction models using β -tricalcium phosphate. <i>Congenital Anomalies (discontinued)</i> , 2010, 50, 95-104.	0.6	6
106	β regulates TH17 development by cooperating with ROR nuclear receptors. <i>Nature</i> , 2010, 464, 1381-1385.	27.8	361
107	Multiple Decisive Phosphorylation Sites for the Negative Feedback Regulation of SOS1 via ERK*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33540-33548.	3.4	62
108	Revolving movement of a dynamic cluster of actin filaments during mitosis. <i>Journal of Cell Biology</i> , 2010, 191, 453-462.	5.2	65

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109	Ras and Calcium Signaling Pathways Converge at Raf1 via the Shoc2 Scaffold Protein. <i>Molecular Biology of the Cell</i> , 2010, 21, 1088-1096.	2.1	34
110	The Scaffold Protein Shoc2/SUR-8 Accelerates the Interaction of Ras and Raf. <i>Journal of Biological Chemistry</i> , 2010, 285, 7818-7826.	3.4	54
111	Increased bone mass in adult prostacyclin-deficient mice. <i>Journal of Endocrinology</i> , 2010, 204, 125-133.	2.6	17
112	Suppression of NF- κ B Increases Bone Formation and Ameliorates Osteopenia in Ovariectomized Mice. <i>Endocrinology</i> , 2010, 151, 4626-4634.	2.8	70
113	The Effects of NF- κ B Inhibitors on Bone Formation. <i>Journal of Oral Biosciences</i> , 2010, 52, 303-310.	2.2	1
114	Signaling pathway via TNF- α /NF- κ B in intestinal epithelial cells may be directly involved in colitis-associated carcinogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G850-G859.	3.4	144
115	Polysaccharide nanogel delivery of a TNF- α and RANKL antagonist peptide allows systemic prevention of bone loss. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 37, 83-88.	4.0	52
116	Inhibition of the classical NF- κ B pathway prevents osteoclast bone-resorbing activity. <i>Journal of Bone and Mineral Metabolism</i> , 2009, 27, 131-139.	2.7	43
117	Bovine dentine organic matrix down-regulates osteoclast activity. <i>Journal of Bone and Mineral Metabolism</i> , 2009, 27, 315-323.	2.7	13
118	Visualization of small GTPase activity with fluorescence resonance energy transfer-based biosensors. <i>Nature Protocols</i> , 2009, 4, 1623-1631.	12.0	127
119	LPS-Induced Inhibition of Osteogenesis Is TNF- α Dependent in a Murine Tooth Extraction Model. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1770-1781.	2.8	50
120	Applications and the Future of Peptide Drugs for Inflammatory Bone Resorption. <i>Journal of Oral Biosciences</i> , 2009, 51, 119-133.	2.2	0
121	Three-dimensional characterization of osteoclast bone-resorbing activity in the resorption lacunae. <i>Journal of Medical and Dental Sciences</i> , 2009, 56, 107-12.	0.4	10
122	FRET imaging and in silico simulation: analysis of the signaling network of nerve growth factor-induced neuritogenesis. <i>Brain Cell Biology</i> , 2008, 36, 19-30.	3.2	8
123	Lipopolysaccharide-induced bone resorption is increased in TNF type 2 receptor-deficient mice in vivo. <i>Journal of Bone and Mineral Metabolism</i> , 2008, 26, 469-477.	2.7	17
124	Cathepsin K-Dependent Toll-Like Receptor 9 Signaling Revealed in Experimental Arthritis. <i>Science</i> , 2008, 319, 624-627.	12.6	401
125	Quantification of Local Morphodynamics and Local GTPase Activity by Edge Evolution Tracking. <i>PLoS Computational Biology</i> , 2008, 4, e1000223.	3.2	23
126	Phosphorylation and activation of the Rac1 and Cdc42 GEF Asef in A431 cells stimulated by EGF. <i>Journal of Cell Science</i> , 2008, 121, 2635-2642.	2.0	57

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127	Rapid Turnover Rate of Phosphoinositides at the Front of Migrating MDCK Cells. <i>Molecular Biology of the Cell</i> , 2008, 19, 4213-4223.	2.1	66
128	Visualization of growth signal transduction cascades in living cells with genetically encoded probes based on Förster resonance energy transfer. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 2143-2151.	4.0	42
129	Rap1-PDZ-GEF1 interacts with a neurotrophin receptor at late endosomes, leading to sustained activation of Rap1 and ERK and neurite outgrowth. <i>Journal of Cell Biology</i> , 2007, 178, 843-860.	5.2	103
130	An essential role for the SHIP2-dependent negative feedback loop in neuritogenesis of nerve growth factor-stimulated PC12 cells. <i>Journal of Cell Biology</i> , 2007, 177, 817-827.	5.2	64
131	Defective microtubule-dependent podosome organization in osteoclasts leads to increased bone density in <i>Pyk2</i> mice. <i>Journal of Cell Biology</i> , 2007, 178, 1053-1064.	5.2	208
132	NF- κ B inhibitor dehydroxymethylepoxyquinomicin suppresses osteoclastogenesis and expression of NFATc1 in mouse arthritis without affecting expression of RANKL, osteoprotegerin or macrophage colony-stimulating factor. <i>Arthritis Research and Therapy</i> , 2007, 9, R97.	3.5	27
133	A tumor necrosis factor receptor loop peptide mimic inhibits bone destruction to the same extent as anti-tumor necrosis factor monoclonal antibody in murine collagen-induced arthritis. <i>Arthritis and Rheumatism</i> , 2007, 56, 1164-1174.	6.7	56
134	Amelioration of bone loss in collagen-induced arthritis by neutralizing anti-RANKL monoclonal antibody. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 124-132.	2.1	50
135	Regional distinctions in cortical bone mineral density measured by pQCT can predict alterations in material property at the tibial diaphysis of the <i>Cynomolgus</i> monkey. <i>Bone</i> , 2006, 38, 265-272.	2.9	17
136	GTP Hydrolysis by the Rho Family GTPase TC10 Promotes Exocytic Vesicle Fusion. <i>Developmental Cell</i> , 2006, 11, 411-421.	7.0	62
137	A tumor necrosis factor-alpha antagonist inhibits inflammatory bone resorption induced by <i>Porphyromonas gingivalis</i> infection in mice. <i>Journal of Periodontal Research</i> , 2006, 41, 81-91.	2.7	18
138	Regulation of osteoclast differentiation and function by the CaMK-CREB pathway. <i>Nature Medicine</i> , 2006, 12, 1410-1416.	30.7	302
139	Bovine deciduous dentine is more susceptible to osteoclastic resorption than permanent dentine: results of quantitative analyses. <i>Journal of Bone and Mineral Metabolism</i> , 2006, 24, 248-254.	2.7	14
140	Dynamics of the Ras/ERK MAPK Cascade as Monitored by Fluorescent Probes. <i>Journal of Biological Chemistry</i> , 2006, 281, 8917-8926.	3.4	302
141	A TNF receptor loop peptide mimic blocks RANK ligand-induced signaling, bone resorption, and bone loss. <i>Journal of Clinical Investigation</i> , 2006, 116, 1525-1534.	8.2	122
142	Improvement of the bioluminescence reporter system for real-time monitoring of circadian rhythms in the cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>Genes and Genetic Systems</i> , 2005, 80, 19-23.	0.7	8
143	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. <i>Molecular Biology of the Cell</i> , 2005, 16, 2207-2217.	2.1	132
144	FRET imaging in nerve growth cones reveals a high level of RhoA activity within the peripheral domain. <i>Molecular Brain Research</i> , 2005, 139, 277-287.	2.3	40

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145	Monitoring spatio-temporal regulation of Ras and Rho GTPases with GFP-based FRET probes. <i>Methods</i> , 2005, 37, 146-153.	3.8	55
146	Subcutaneous injections of a TNF-alpha antagonistic peptide inhibit both inflammation and bone resorption in collagen-induced murine arthritis. <i>Journal of Medical and Dental Sciences</i> , 2005, 52, 91-9.	0.4	8
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