Eiko Sakai

List of Publications by Year
in descending order

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56 papers	1,777 citations	331259 21 h-index	276539 41 g-index
56 all docs	56 docs citations	56 times ranked	2263 citing authors

#	Article	IF	Citations
1	U0126 and PD98059, Specific Inhibitors of MEK, Accelerate Differentiation of RAW264.7 Cells into Osteoclast-like Cells. Journal of Biological Chemistry, 2002, 277, 47366-47372.	1.6	279
2	Identification of a New Membrane-associated Protein That Influences Transport/Maturation of Gingipains and Adhesins of Porphyromonas gingivalis. Journal of Biological Chemistry, 2005, 280, 8668-8677.	1.6	135
3	Berberine inhibits RANKL-induced osteoclast formation and survival through suppressing the NF-Î¹B and Akt pathways. European Journal of Pharmacology, 2008, 580, 70-79.	1.7	132
4	Molecular analysis of RANKL-independent cell fusion of osteoclast-like cells induced by TNF-Î±, lipopolysaccharide, or peptidoglycan. Journal of Cellular Biochemistry, 2007, 101, 122-134.	1.2	122
5	The major structural components of two cell surface filaments of Porphyromonas gingivalis are matured through lipoprotein precursors. Molecular Microbiology, 2004, 52, 1513-1525.	1.2	75
6	Porphyromonas gingivalis-induced platelet aggregation in plasma depends on Hgp44 adhesin but not Rgp proteinase. Molecular Microbiology, 2006, 59, 152-167.	1.2	73
7	Adhesins encoded by the gingipain genes of Porphyromonas gingivalis are responsible for co-aggregation with Prevotella intermedia. Microbiology (United Kingdom), 2003, 149, 1257-1264.	0.7	55
8	Fisetin Inhibits Osteoclastogenesis Through Prevention of RANKL-Induced ROS Production by Nrf2-Mediated Up-regulation of Phase II Antioxidant Enzymes. Journal of Pharmacological Sciences, 2013, 121, 288-298.	1.1	52
9	Rab27A Regulates Transport of Cell Surface Receptors Modulating Multinucleation and Lysosome-Related Organelles in Osteoclasts. Scientific Reports, 2015, 5, 9620.	1.6	51
10	Suppression of RANKLâ€dependent heme oxygenaseâ€1 is required for high mobility group box 1 release and osteoclastogenesis. Journal of Cellular Biochemistry, 2012, 113, 486-498.	1.2	50
11	Lactosylceramide Is Essential for the Osteoclastogenesis Mediated by Macrophage-Colony-stimulating Factor and Receptor Activator of Nuclear Factor-Î¹B Ligand. Journal of Biological Chemistry, 2001, 276, 46031-46038.	1.6	48
12	Cell Adhesion Is a Prerequisite for Osteoclast Survival. Biochemical and Biophysical Research Communications, 2000, 270, 550-556.	1.0	43
13	The Transcription Factor EB (TFEB) Regulates Osteoblast Differentiation Through ATF4/CHOPâ€Dependent Pathway. Journal of Cellular Physiology, 2016, 231, 1321-1333.	2.0	42
14	Engineering Bone Formation from Human Dental Pulp- and Periodontal Ligament-Derived Cells. Annals of Biomedical Engineering, 2011, 39, 26-34.	1.3	37
15	Rab44, a novel large Rab GTPase, negatively regulates osteoclast differentiation by modulating intracellular calcium levels followed by NFATc1 activation. Cellular and Molecular Life Sciences, 2018, 75, 33-48.	2.4	37
16	The Coffee Diterpene Kahweol Prevents Osteoclastogenesis via Impairment of NFATc1 Expression and Blocking of Erk Phosphorylation. Journal of Pharmacological Sciences, 2012, 118, 479-486.	1.1	34
17	Construction of Recombinant Hemagglutinin Derived from the Gingipain-Encoding Gene of Porphyromonas gingivalis , Identification of Its Target Protein on Erythrocytes, and Inhibition of Hemagglutination by an Interdomain Regional Peptide. Journal of Bacteriology, 2007, 189, 3977-3986.	1.0	32
18	Current Topics in Pharmacological Research on Bone Metabolism: Osteoclast Differentiation Regulated by Glycosphingolipids. Journal of Pharmacological Sciences, 2006, 100, 195-200.	1.1	27

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19	Cathepsin E Deficiency Impairs Autophagic Proteolysis in Macrophages. PLoS ONE, 2013, 8, e82415.	1.1	27
20	Novel stationary-phase-upregulated protein of Porphyromonas gingivalis influences production of superoxide dismutase, thiol peroxidase and thioredoxin. Microbiology (United Kingdom), 2005, 151, 841-853.	0.7	24
21	Expression and localization of MGP in rat tooth cementum. Archives of Oral Biology, 2001, 46, 585-592.	0.8	22
22	Calcium phosphate mineralization in bone tissues directly observed in aqueous liquid by atmospheric SEM (ASEM) without staining: microfluidics crystallization chamber and immuno-EM. Scientific Reports, 2019, 9, 7352.	1.6	21
23	Age-Related and Dexamethasone-Induced Changes in Cathepsins E and D in Rat Thymic and Splenic Cells. Archives of Biochemistry and Biophysics, 1996, 333, 349-358.	1.4	20
24	The Hemoglobin Receptor Protein of Porphyromonas gingivalis Inhibits Receptor Activator NF-ÎºB Ligand-Induced Osteoclastogenesis from Bone Marrow Macrophages. Infection and Immunity, 2006, 74, 2544-2551.	1.0	19
25	Effects of deficiency of Kelchâ€like ECHâ€associated protein 1 on skeletal organization: a mechanism for diminished nuclear factor of activated T cells cytoplasmic 1 during osteoclastogenesis. FASEB Journal, 2017, 31, 4011-4022.	0.2	19
26	The Regulation of Bone Resorption in Tooth Formation and Eruption Processes in Mouse Alveolar Crest Devoid of Cathepsin K. Journal of Pharmacological Sciences, 2003, 91, 285-294.	1.1	17
27	Pepstatin A, an Aspartic Proteinase Inhibitor, Suppresses RANKL-Induced Osteoclast Differentiation. Journal of Biochemistry, 2006, 139, 583-590.	0.9	17
28	Inhibitory effects of tertâ€butylhydroquinone on osteoclast differentiation via upâ€regulation of heme oxygenaseâ€1 and downâ€regulation of HMGB1 release and NFATc1 expression. Journal of Applied Toxicology, 2014, 34, 49-56.	1.4	17
29	KBTBD11, a novel BTB-Kelch protein, is a negative regulator of osteoclastogenesis through controlling Cullin3-mediated ubiquitination of NFATc1. Scientific Reports, 2019, 9, 3523.	1.6	17
30	Disruption of structural and functional integrity of alpha2-macroglobulin by cathepsin E. FEBS Journal, 2003, 270, 1189-1198.	0.2	16
31	Effects of non-iron metalloporphyrins on growth and gene expression of Porphyromonas gingivalis. Microbiology and Immunology, 2011, 55, 141-153.	0.7	15
32	Dual Effects of Liquiritigenin on the Proliferation of Bone Cells: Promotion of Osteoblast Differentiation and Inhibition of Osteoclast Differentiation. Phytotherapy Research, 2015, 29, 1714-1721.	2.8	15
33	Sanguiin H-6, a constituent of Rubus parvifolius L., inhibits receptor activator of nuclear factor-ÎºB ligand-induced osteoclastogenesis and bone resorption in vitro and prevents tumor necrosis factor-Î±-induced osteoclast formation in vivo. Phytomedicine, 2016, 23, 828-837.	2.3	14
34	Rab11A Functions as a Negative Regulator of Osteoclastogenesis through Dictating Lysosome-Induced Proteolysis of c-fms and RANK Surface Receptors. Cells, 2020, 9, 2384.	1.8	14
35	Deltamethrin inhibits osteoclast differentiation via regulation of heme oxygenase-1 and NFATc1. Toxicology in Vitro, 2012, 26, 817-822.	1.1	13
36	The Inhibitory Role of Rab11b in Osteoclastogenesis through Triggering Lysosome-Induced Degradation of c-Fms and RANK Surface Receptors. International Journal of Molecular Sciences, 2020, 21, 9352.	1.8	13

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37	Characterization of rat cathepsin E and mutants with changed active-site residues and lacking propeptides and N-glycosylation, expressed in human embryonic kidney 293T cells. FEBS Journal, 2006, 273, 219-229.	2.2	12
38	The dental resin monomers HEMA and TEGDMA have inhibitory effects on osteoclast differentiation with low cytotoxicity. Journal of Applied Toxicology, 2017, 37, 817-824.	1.4	12
39	A novel role of HSP90 in regulating osteoclastogenesis by abrogating Rab11b-driven transport. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 119096.	1.9	12
40	<scp>C</scp>afestol has a weaker inhibitory effect on osteoclastogenesis than kahweol and promotes osteoblast differentiation. BioFactors, 2015, 41, 222-231.	2.6	11
41	Genetic backgrounds and redox conditions influence morphological characteristics and cell differentiation of osteoclasts in mice. Cell and Tissue Research, 2012, 348, 81-94.	1.5	10
42	Dimethyl fumarate prevents osteoclastogenesis by decreasing NFATc1 expression, inhibiting of erk and p38 MAPK phosphorylation, and suppressing of HMGB1 release. Biochemical and Biophysical Research Communications, 2020, 530, 455-461.	1.0	10
43	NLRP3 Inflammasome Negatively Regulates RANKL-Induced Osteoclastogenesis of Mouse Bone Marrow Macrophages but Positively Regulates It in the Presence of Lipopolysaccharides. International Journal of Molecular Sciences, 2022, 23, 6096.	1.8	9
44	Rutaecarpine attenuates osteoclastogenesis by impairing macrophage colony stimulating factor and receptor activator of nuclear factor Î°â€Β ligandâ€stimulated signalling pathways. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 863-865.	0.9	8
45	The Role of Cytokines Produced via the NLRP3 Inflammasome in Mouse Macrophages Stimulated with Dental Calculus in Osteoclastogenesis. International Journal of Molecular Sciences, 2021, 22, 12434.	1.8	8
46	New functions of lysosomes in bone cells. Journal of Oral Biosciences, 2017, 59, 92-95.	0.8	7
47	Actin binding LIM 1 (abLIM1) negatively controls osteoclastogenesis by regulating cell migration and fusion. Journal of Cellular Physiology, 2019, 234, 486-499.	2.0	7
48	Cobalt protoporphyrin represses osteoclastogenesis through blocking multiple signaling pathways. BioMetals, 2015, 28, 725-732.	1.8	5
49	Potentials of natural antioxidants from plants as antiosteoporotic agents. Studies in Natural Products Chemistry, 2022, , 1-28.	0.8	5
50	Determination of active site of lysine-specific cysteine proteinase (Lys-gingipain) by use of a Porphyromonas gingivalis plasmid system. Archives of Oral Biology, 2008, 53, 538-544.	0.8	3
51	Structural and phylogenetic comparison of napsin genes: The duplication, loss of function and human-specific pseudogenization of napsin B. Gene, 2013, 517, 147-157.	1.0	3
52	Rab34 plays a critical role as a bidirectional regulator of osteoclastogenesis. Cell Biochemistry and Function, 2022, 40, 263-277.	1.4	3
53	Coronin1C Is a GDP-Specific Rab44 Effector That Controls Osteoclast Formation by Regulating Cell Motility in Macrophages. International Journal of Molecular Sciences, 2022, 23, 6619.	1.8	3
54	Dihydroartemisinin represses osteoclastogenesis of bone marrow macrophages through reduced NFATc1 expression and impaired phosphorylation of Î°Bβ . Biomedical Research, 2018, 39, 169-177.	0.3	2

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55	Liquid-phase ASEM imaging of cellular and structural details in cartilageÂand bone formed during endochondral ossification: Keap1-deficient osteomalacia. Scientific Reports, 2021, 11, 5722.	1.6	2
56	Coffee and Bone Metabolism. , 2015, , 869-875.		1