

Takenobu Katagiri

List of Publications by Year in descending order

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74
papers

4,506
citations

186265

28
h-index

102487

66
g-index

84
all docs

84
docs citations

84
times ranked

4896
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibitory effects of sesquiterpene lactones from the Indonesian marine sponge <i>Lamellodysidea cf. herbacea</i> on bone morphogenetic protein-induced osteoblastic differentiation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 35, 127783.	2.2	7
2	Novel bicyclic pyrazoles as potent ALK2 (R206H) inhibitors for the treatment of fibrodysplasia ossificans progressiva. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 38, 127858.	2.2	5
3	Accumulated Knowledge of Activin Receptor-Like Kinase 2 (ALK2)/Activin A Receptor, Type 1 (ACVR1) as a Target for Human Disorders. <i>Biomedicines</i> , 2021, 9, 736.	3.2	7
4	Fibrodysplasia ossificans progressiva: Review and research activities in Japan. <i>Pediatrics International</i> , 2020, 62, 3-13.	0.5	11
5	Screening for Small Molecule Inhibitors of BMP-Induced Osteoblastic Differentiation from Indonesian Marine Invertebrates. <i>Marine Drugs</i> , 2020, 18, 606.	4.6	5
6	Penicillic Acid Congener, a New Inhibitor of BMP-Induced Alkaline Phosphatase Activity in Myoblasts, Produced by the Fungus <i>Penicillium sp. BF-0343</i> . <i>Natural Product Communications</i> , 2020, 15, 1934578X2094265.	0.5	1
7	Smad4-dependent transforming growth factor- β family signaling regulates the differentiation of dental epithelial cells in adult mouse incisors. <i>Bone</i> , 2020, 137, 115456.	2.9	4
8	Design of primers for direct sequencing of nine coding exons in the human ACVR1 gene. <i>Bone</i> , 2020, 138, 115469.	2.9	4
9	Functional characterization of a unique mutant of ALK2, p.K400E, that is associated with a skeletal disorder, diffuse idiopathic skeletal hyperostosis. <i>Bone</i> , 2020, 137, 115410.	2.9	8
10	A new diketopiperazine-like inhibitor of bone morphogenetic protein-induced osteoblastic differentiation produced by marine-derived <i>Aspergillus sp. BFM-0085</i> . <i>Journal of Antibiotics</i> , 2020, 73, 554-558.	2.0	12
11	Dual usage of a stage-specific fluorescent reporter system based on a helper-dependent adenoviral vector to visualize osteogenic differentiation. <i>Scientific Reports</i> , 2019, 9, 9705.	3.3	3
12	Effects of FKBP12 and type II BMP receptors on signal transduction by ALK2 activating mutations associated with genetic disorders. <i>Bone</i> , 2018, 111, 101-108.	2.9	29
13	Heterotopic bone induction via BMP signaling: Potential therapeutic targets for fibrodysplasia ossificans progressiva. <i>Bone</i> , 2018, 109, 241-250.	2.9	33
14	Discovery of Heterotopic Bone-Inducing Activity in Hard Tissues and the TGF- β Superfamily. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3586.	4.1	10
15	Recent Topics in Fibrodysplasia Ossificans Progressiva. <i>Endocrinology and Metabolism</i> , 2018, 33, 331.	3.0	23
16	BMPR2 inhibits activin- and BMP-signaling via wild type ALK2. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	42
17	A potential novel option for cancer immunotherapy - TLR7 stimulation inhibits malignant melanoma bone invasion. <i>Oncotarget</i> , 2018, 9, 31792-31792.	1.8	2
18	Novel In Vitro Assay Models to Study Osteogenesis and Chondrogenesis for Human Skeletal Disorders. , 2017, , 113-126.		0

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19	Scopranones with Two Atypical Scooplike Moieties Produced by <i>Streptomyces</i> sp. BYK-11038. <i>Organic Letters</i> , 2017, 19, 5980-5983.	4.6	16
20	Molecular mechanisms for activation of mutant activin receptor-like kinase 2 in fibrodysplasia ossificans progressiva. <i>Journal of Oral Biosciences</i> , 2017, 59, 121-126.	2.2	1
21	Bone Morphogenetic Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a021899.	5.5	356
22	A Door Opens for Fibrodysplasia Ossificans Progressiva. <i>Trends in Biochemical Sciences</i> , 2016, 41, 119-121.	7.5	12
23	Phenotypic differences of patients with fibrodysplasia ossificans progressive due to p.Arg258Ser variants of ACVR1. <i>Human Genome Variation</i> , 2015, 2, 15055.	0.7	9
24	Involvement of PRIP (Phospholipase C-Related But Catalytically Inactive Protein) in BMP-Induced Smad Signaling in Osteoblast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2814-2823.	2.6	4
25	Mutant Activin-Like Kinase 2 in Fibrodysplasia Ossificans Progressiva are Activated via T203 by BMP Type II Receptors. <i>Molecular Endocrinology</i> , 2015, 29, 140-152.	3.7	25
26	Bone morphogenetic protein-induced heterotopic bone formation: What have we learned from the history of a half century?. <i>Japanese Dental Science Review</i> , 2015, 51, 42-50.	5.1	11
27	Inhibition of bone morphogenetic protein-induced osteoblast differentiation. <i>Journal of Oral Biosciences</i> , 2015, 57, 179-184.	2.2	3
28	Radiographic characteristics of the hand and cervical spine in fibrodysplasia ossificans progressiva. <i>Intractable and Rare Diseases Research</i> , 2014, 3, 46-51.	0.9	10
29	Establishment of a novel model of chondrogenesis using murine embryonic stem cells carrying fibrodysplasia ossificans progressiva-associated mutant ALK2. <i>Biochemical and Biophysical Research Communications</i> , 2014, 455, 347-352.	2.1	8
30	Expression of TLE3 by bone marrow stromal cells is regulated by canonical Wnt signaling. <i>FEBS Letters</i> , 2014, 588, 614-619.	2.8	21
31	5-Prenyltryptophol, a new inhibitor of bone morphogenetic protein-induced alkaline phosphatase expression in myoblasts, produced by <i>Streptomyces colinus</i> subsp. <i>albescens</i> HEK608. <i>Journal of Antibiotics</i> , 2014, 67, 589-591.	2.0	9
32	Identification of a novel bone morphogenetic protein (BMP)-inducible transcript, BMP-inducible transcript-1, by utilizing the conserved BMP-responsive elements in the Id genes. <i>Journal of Bone and Mineral Metabolism</i> , 2013, 31, 34-43.	2.7	19
33	The unique activity of bone morphogenetic proteins in bone: a critical role of the Smad signaling pathway. <i>Biological Chemistry</i> , 2013, 394, 703-714.	2.5	56
34	TLE3, transducing-like enhancer of split 3, suppresses osteoblast differentiation of bone marrow stromal cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 205-210.	2.1	29
35	Accumulation of p100, a Precursor of NF- κ B2, Enhances Osteoblastic Differentiation <i>in Vitro</i> and Bone Formation <i>in Vivo</i> in <i>Ally/ally</i> Mice. <i>Molecular Endocrinology</i> , 2012, 26, 414-422.	3.7	25
36	Recent topics in fibrodysplasia ossificans progressiva. <i>Journal of Oral Biosciences</i> , 2012, 54, 119-123.	2.2	11

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37	Fungal pyrrolidine-containing metabolites inhibit alkaline phosphatase activity in bone morphogenetic protein-stimulated myoblastoma cells. <i>Acta Pharmaceutica Sinica B</i> , 2012, 2, 23-27.	12.0	21
38	Interaction of Tmem119 and the bone morphogenetic protein pathway in the commitment of myoblastic into osteoblastic cells. <i>Bone</i> , 2012, 51, 158-167.	2.9	35
39	Trichocyalides A and B, new inhibitors of alkaline phosphatase activity in bone morphogenetic protein-stimulated myoblasts, produced by <i>Trichoderma</i> sp. FKI-5513. <i>Journal of Antibiotics</i> , 2012, 65, 565-569.	2.0	16
40	Role of Smad phosphatases in BMP-Smad signaling axis-induced osteoblast differentiation. <i>Journal of Oral Biosciences</i> , 2012, 54, 73-78.	2.2	10
41	Clinically applicable antianginal agents suppress osteoblastic transformation of myogenic cells and heterotopic ossifications in mice. <i>Journal of Bone and Mineral Metabolism</i> , 2012, 31, 26-33.	2.7	17
42	BMP3 Suppresses Osteoblast Differentiation of Bone Marrow Stromal Cells via Interaction with Acvr2b. <i>Molecular Endocrinology</i> , 2012, 26, 87-94.	3.7	99
43	Identification and functional analysis of Zranb2 as a novel Smad-binding protein that suppresses BMP signaling. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 808-814.	2.6	15
44	A novel mutation of ALK2, L196P, found in the most benign case of fibrodysplasia ossificans progressiva activates BMP-specific intracellular signaling equivalent to a typical mutation, R206H. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 213-218.	2.1	47
45	Lactacystin, a proteasome inhibitor, enhances BMP-induced osteoblastic differentiation by increasing active Smads. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 225-229.	2.1	16
46	Suppression of BMP-Smad Signaling Axis-Induced Osteoblastic Differentiation by Small C-terminal Domain Phosphatase 1, a Smad Phosphatase. <i>Molecular Endocrinology</i> , 2011, 25, 474-481.	3.7	27
47	Protein phosphatase magnesium-dependent 1A-mediated inhibition of BMP signaling is independent of Smad dephosphorylation. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 653-660.	2.8	40
48	Deformity of the great toe in fibrodysplasia ossificans progressiva. <i>Journal of Orthopaedic Science</i> , 2010, 15, 804-809.	1.1	27
49	Dual Roles of Smad Proteins in the Conversion from Myoblasts to Osteoblastic Cells by Bone Morphogenetic Proteins. <i>Journal of Biological Chemistry</i> , 2010, 285, 15577-15586.	3.4	70
50	Canonical Wnts and BMPs cooperatively induce osteoblastic differentiation through a GSK3 β -dependent and β -catenin-independent mechanism. <i>Differentiation</i> , 2010, 80, 46-52.	1.9	49
51	Heterotopic Bone Formation Induced by Bone Morphogenetic Protein Signaling: Fibrodysplasia Ossificans Progressiva. <i>Journal of Oral Biosciences</i> , 2010, 52, 33-41.	2.2	24
52	Constitutively Activated ALK2 and Increased SMAD1/5 Cooperatively Induce Bone Morphogenetic Protein Signaling in Fibrodysplasia Ossificans Progressiva. <i>Journal of Biological Chemistry</i> , 2009, 284, 7149-7156.	3.4	184
53	DRAGON, a GPI-anchored membrane protein, inhibits BMP signaling in C2C12 myoblasts. <i>Genes To Cells</i> , 2009, 14, 695-702.	1.2	23
54	Bone morphogenetic protein-2 down-regulates miR-206 expression by blocking its maturation process. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 125-129.	2.1	44

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55	The fibrodysplasia ossificans progressiva R206H ACVR1 mutation activates BMP-independent chondrogenesis and zebrafish embryo ventralization. <i>Journal of Clinical Investigation</i> , 2009, 119, 3462-72.	8.2	178
56	Skeletal metamorphosis in fibrodysplasia ossificans progressiva (FOP). <i>Journal of Bone and Mineral Metabolism</i> , 2008, 26, 521-530.	2.7	73
57	BMP type I receptor inhibition reduces heterotopic ossification. <i>Nature Medicine</i> , 2008, 14, 1363-1369.	30.7	559
58	A unique mutation of ALK2, G356D, found in a patient with fibrodysplasia ossificans progressiva is a moderately activated BMP type I receptor. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 905-909.	2.1	69
59	Platelet-rich plasma stimulates osteoblastic differentiation in the presence of BMPs. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 62-67.	2.1	52
60	Establishment of a novel method for enriching osteoblast progenitors from adipose tissues using a difference in cell adhesive properties. <i>Biochemical and Biophysical Research Communications</i> , 2006, 343, 1118-1123.	2.1	17
61	Purification and identification of a BMP-like factor from bovine serum. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1224-1231.	2.1	72
62	Differentiation and Monitoring of Cells Using a Biochip for Regenerative Medicine. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2006, 49, 852-858.	0.3	3
63	Heparin Potentiates the in Vivo Ectopic Bone Formation Induced by Bone Morphogenetic Protein-2. <i>Journal of Biological Chemistry</i> , 2006, 281, 23246-23253.	3.4	251
64	Sulfated Polysaccharides Enhance the Biological Activities of Bone Morphogenetic Proteins. <i>Journal of Biological Chemistry</i> , 2003, 278, 43229-43235.	3.4	239
65	Identification of a BMP-responsive element <i>inl1</i> , the gene for inhibition of myogenesis. <i>Genes To Cells</i> , 2002, 7, 949-960.	1.2	226
66	Expression of mouse osteocalcin transcripts, <i>OG1</i> and <i>OG2</i> , is differently regulated in bone tissues and osteoblast cultures. <i>Journal of Bone and Mineral Metabolism</i> , 2001, 19, 345-351.	2.7	12
67	Skeletal abnormalities in doubly heterozygous <i>Bmp4</i> and <i>Bmp7</i> mice. <i>Genesis</i> , 1998, 22, 340-348.	2.1	113
68	A Kinase Domain-truncated Type I Receptor Blocks Bone Morphogenetic Protein-2-induced Signal Transduction in C2C12 Myoblasts. <i>Journal of Biological Chemistry</i> , 1997, 272, 22046-22052.	3.4	76
69	<i>Smad1</i> and <i>Smad5</i> Act Downstream of Intracellular Signalings of BMP-2 That Inhibits Myogenic Differentiation and Induces Osteoblast Differentiation in C2C12 Myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 1997, 238, 574-580.	2.1	198
70	Bone Morphogenetic Protein-2 Inhibits Terminal Differentiation of Myogenic Cells by Suppressing the Transcriptional Activity of <i>MyoD</i> and <i>Myogenin</i> . <i>Experimental Cell Research</i> , 1997, 230, 342-351.	2.6	130
71	Constitutively Active BMP Type I Receptors Transduce BMP-2 Signals without the Ligand in C2C12 Myoblasts. <i>Experimental Cell Research</i> , 1997, 235, 362-369.	2.6	106
72	Bone morphogenetic protein-2 does not alter the differentiation pathway of committed progenitors of osteoblasts and chondroblasts. <i>Cell and Tissue Research</i> , 1996, 284, 9-17.	2.9	26

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73	The role of gravity in chick embryogenesis. FEBS Letters, 1994, 340, 34-38.	2.8	22
74	The non-osteogenic mouse pluripotent cell line, C3H10T1/2, is induced to differentiate into osteoblastic cells by recombinant human bone morphogenetic protein-2. Biochemical and Biophysical Research Communications, 1990, 172, 295-299.	2.1	477