Tatsuya Kobayashi

List of Publications by Year
in descending order

67 papers	8,134 citations	81839 39 h-index	114418 63 g-index
70 all docs	70 docs citations	70 times ranked	9866 citing authors

#	Article	IF	Citations
1	Bone progenitor dysfunction induces myelodysplasia and secondary leukaemia. Nature, 2010, 464, 852-857.	13.7	980
2	Osteoblast Precursors, but Not Mature Osteoblasts, Move into Developing and Fractured Bones along with Invading Blood Vessels. Developmental Cell, 2010, 19, 329-344.	3.1	773
3	Hypoxia in cartilage: HIF-1Î± is essential for chondrocyte growth arrest and survival. Genes and Development, 2001, 15, 2865-2876.	2.7	690
4	Endogenous Bone Marrow MSCs Are Dynamic, Fate-Restricted Participants in Bone Maintenance and Regeneration. Cell Stem Cell, 2012, 10, 259-272.	5.2	551
5	Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. Nature Medicine, 2008, 14, 306-314.	15.2	532
6	Dicer-dependent pathways regulate chondrocyte proliferation and differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1949-1954.	3.3	315
7	PTHrP and Indian hedgehog control differentiation of growth plate chondrocytes at multiple steps. Development (Cambridge), 2002, 129, 2977-2986.	1.2	272
8	Osteoblast-derived PTHrP is a potent endogenous bone anabolic agent that modifies the therapeutic efficacy of administered PTH 1-34. Journal of Clinical Investigation, 2005, 115, 2402-2411.	3.9	252
9	BMP signaling negatively regulates bone mass through sclerostin by inhibiting the canonical Wnt pathway. Development (Cambridge), 2008, 135, 3801-3811.	1.2	243
10	Indian hedgehog stimulates periarticular chondrocyte differentiation to regulate growth plate length independently of PTHrP. Journal of Clinical Investigation, 2005, 115, 1734-1742.	3.9	227
11	Stimulatory effect of bone morphogenetic protein-2 on osteoclast-like cell formation and bone-resorbing activity. Journal of Bone and Mineral Research, 1995, 10, 1681-1690.	3.1	197
12	Wnt inhibitors <i>Dkk1</i> and <i>Sost</i> are downstream targets of BMP signaling through the type IA receptor (BMPRIA) in osteoblasts. Journal of Bone and Mineral Research, 2010, 25, 200-210.	3.1	190
13	Targeted ablation of the PTH/PTHrP receptor in osteocytes impairs bone structure and homeostatic calcemic responses. Journal of Endocrinology, 2011, 209, 21-32.	1.2	175
14	BMP signaling stimulates cellular differentiation at multiple steps during cartilage development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18023-18027.	3.3	160
15	Disruption of BMP Signaling in Osteoblasts Through Type IA Receptor (BMPRIA) Increases Bone Mass. Journal of Bone and Mineral Research, 2008, 23, 2007-2017.	3.1	156
16	Chondrocyte-Specific MicroRNA-140 Regulates Endochondral Bone Development and Targets <i>Dnpep</i> To Modulate Bone Morphogenetic Protein Signaling. Molecular and Cellular Biology, 2011, 31, 3019-3028.	1.1	149
17	Minireview: Transcriptional Regulation in Development of Bone. Endocrinology, 2005, 146, 1012-1017.	1.4	141
18	In Vivo Evidence That BMP Signaling Is Necessary for Apoptosis in the Mouse Limb. Developmental Biology, 2002, 249, 108-120.	0.9	137

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19	Deletion of Vhlh in chondrocytes reduces cell proliferation and increases matrix deposition during growth plate development. Development (Cambridge), 2004, 131, 2497-2508.	1.2	119
20	PTHrP and Indian hedgehog control differentiation of growth plate chondrocytes at multiple steps. Development (Cambridge), 2002, 129, 2977-86.	1.2	118
21	ADAMTS-7, a Direct Target of PTHrP, Adversely Regulates Endochondral Bone Growth by Associating with and Inactivating GEP Growth Factor. Molecular and Cellular Biology, 2009, 29, 4201-4219.	1.1	100
22	Chondrocyte-Specific Knockout of the G Protein GsÎ± Leads to Epiphyseal and Growth Plate Abnormalities and Ectopic Chondrocyte Formation. Journal of Bone and Mineral Research, 2004, 20, 663-671.	3.1	95
23	Parathyroid hormone/parathyroid hormone-related protein receptor signaling is required for maintenance of the growth plate in postnatal life. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 191-196.	3.3	89
24	MicroRNAs involved in bone formation. Cellular and Molecular Life Sciences, 2014, 71, 4747-4761.	2.4	89
25	Gain-of-function mutation of microRNA-140 in human skeletal dysplasia. Nature Medicine, 2019, 25, 583-590.	15.2	86
26	Disruption of PTH Receptor 1 in T Cells Protects against PTH-Induced Bone Loss. PLoS ONE, 2010, 5, e12290.	1.1	78
27	let-7 and miR-140 microRNAs coordinately regulate skeletal development. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3291-300.	3.3	78
28	Sox9 Is Upstream of MicroRNA-140 in Cartilage. Applied Biochemistry and Biotechnology, 2012, 166, 64-71.	1.4	74
29	microRNAs in Cartilage Development, Homeostasis, and Disease. Current Osteoporosis Reports, 2014, 12, 410-419.	1.5	74
30	Thyroid hormone stimulates osteoclast differentiation by a mechanism independent of RANKL-RANK interaction. Journal of Cellular Physiology, 2004, 201, 17-25.	2.0	64
31	gp130-Mediated Signaling Is Necessary for Normal Osteoblastic Function in Vivo and in Vitro. Endocrinology, 2004, 145, 1376-1385.	1.4	60
32	A Novel Transgenic Mouse Model to Study the Osteoblast Lineage <i>in Vivo</i>. Annals of the New York Academy of Sciences, 2007, 1116, 149-164.	1.8	59
33	Parathyroid hormone 1 receptor is essential to induce FGF23 production and maintain systemic mineral ion homeostasis. FASEB Journal, 2016, 30, 428-440.	0.2	59
34	Possible discrimination of Gitelman's syndrome from Bartter's syndrome by renal clearance study: Report of two cases. American Journal of Kidney Diseases, 1995, 25, 637-641.	2.1	56
35	Molecular cloning of cDNA encoding a bovine selenoprotein P-like protein containing 12 selenocysteines and a (His-Pro) rich domain insertion, and its regional expression. Molecular Brain Research, 1995, 30, 301-311.	2.5	54
36	MicroRNA-140 Provides Robustness to the Regulation of Hypertrophic Chondrocyte Differentiation by the PTHrP-HDAC4 Pathway. Journal of Bone and Mineral Research, 2015, 30, 1044-1052.	3.1	51

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37	Adenomatous polyposis coli-mediated control of Î²-catenin is essential for both chondrogenic and osteogenic differentiation of skeletal precursors. BMC Developmental Biology, 2009, 9, 26.	2.1	50
38	Polarity Acquisition in Cortical Neurons Is Driven by Synergistic Action of Sox9-Regulated Wwp1 and Wwp2 E3ÂUbiquitin Ligases and Intronic miR-140. Neuron, 2018, 100, 1097-1115.e15.	3.8	50
39	Polycomb repressive complex 2 regulates skeletal growth by suppressing Wnt and TGF-Î² signalling. Nature Communications, 2016, 7, 12047.	5.8	47
40	Overview of Skeletal Development. Methods in Molecular Biology, 2014, 1130, 3-12.	0.4	46
41	G-protein stimulatory subunit alpha and Gq/11Î± G-proteins are both required to maintain quiescent stem-like chondrocytes. Nature Communications, 2014, 5, 3673.	5.8	41
42	PTHrP targets HDAC4 and HDAC5 to repress chondrocyte hypertrophy. JCI Insight, 2019, 4, .	2.3	33
43	Early postnatal ablation of the microRNA-processing enzyme, Drosha, causes chondrocyte death and impairs the structural integrity of the articular cartilage. Osteoarthritis and Cartilage, 2015, 23, 1214-1220.	0.6	32
44	Parathyroid hormone gene polymorphisms in primary hyperparathyroidism. Clinical Endocrinology, 1999, 50, 583-588.	1.2	27
45	Ras signaling regulates osteoprogenitor cell proliferation and bone formation. Cell Death and Disease, 2016, 7, e2405-e2405.	2.7	25
46	Reduced expression of the PTH/PTHrP receptor during development of the mammary gland influences the function of the nipple during lactation. Developmental Dynamics, 2005, 233, 794-803.	0.8	24
47	Distinct molecular pathways mediate Mycn and Myc-regulated miR-17-92 microRNA action in Feingold syndrome mouse models. Nature Communications, 2018, 9, 1352.	5.8	24
48	Extracellular matrix protein 1, a direct targeting molecule of parathyroid hormoneâ€related peptide, negatively regulates chondrogenesis and endochondral ossification<i>via</i>associating with progranulin growth factor. FASEB Journal, 2016, 30, 2741-2754.	0.2	21
49	Vitamin D Receptor Genotype Is Associated with Cortical Bone Loss in Japanese Patients with Primary Hyperparathyroidism.. Endocrine Journal, 1998, 45, 123-125.	0.7	20
50	Deconvolution of seed and RNA-binding protein crosstalk in RNAi-based functional genomics. Nature Genetics, 2018, 50, 657-661.	9.4	18
51	Cloning of mouse diastrophic dysplasia sulfate transporter gene induced during osteoblast differentiation by bone morphogenetic protein-2. Gene, 1997, 198, 341-349.	1.0	13
52	Analysis of bovine selenoprotein P-like protein gene and availability of metal responsive element (MRE) located in its promoter. Gene, 1997, 199, 211-217.	1.0	13
53	Evaluation of Changes in Bone Density and Biochemical Parameters after Parathyroidectomy in Primary Hyperparathyroidism.. Endocrine Journal, 2000, 47, 231-237.	0.7	13
54	PCSK5 mutation in a patient with the VACTERL association. BMC Research Notes, 2015, 8, 228.	0.6	12

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55	MicroRNAs in cartilage development and dysplasia. Bone, 2020, 140, 115564.	1.4	12
56	Clinical and Biochemical Presentation of Primary Hyperparathyroidism in Kansai District of Japan.. Endocrine Journal, 1997, 44, 595-601.	0.7	11
57	Cloning and Characterization of the 5â€²-Flanking Region of the Mouse Diastrophic Dysplasia Sulfate Transporter Gene. Biochemical and Biophysical Research Communications, 1997, 238, 738-742.	1.0	11
58	Bone resorption facilitates osteoblastic bone metastatic colonization by cooperation of insulinâ€like growth factor and hypoxia. Cancer Science, 2014, 105, 553-559.	1.7	11
59	Bone Is a Major Target of PTH/PTHrP Receptor Signaling in Regulation of Fetal Blood Calcium Homeostasis. Endocrinology, 2015, 156, 2774-2780.	1.4	11
60	Overview of Skeletal Development. Methods in Molecular Biology, 2021, 2230, 3-16.	0.4	9
61	Lin28a overexpression reveals the role of Erk signaling in articular cartilage development. Development (Cambridge), 2018, 145, .	1.2	8
62	Reversing the miRNA -5p/-3p stoichiometry reveals physiological roles and targets of miR-140 miRNAs. Rna, 2022, 28, 854-864.	1.6	6
63	miRNA Regulation of Chondrogenesis. Current Molecular Biology Reports, 2018, 4, 208-217.	0.8	2
64	miRNAs in Bone Formation and Homeostasis. , 2015, , 349-380.		1
65	Multiple variant mRNAs with different length tandem repeats of (CAYYCC)n produced from bovine selenoprotein P-like protein gene. Environmental Health and Preventive Medicine, 2005, 10, 103-110.	1.4	0
66	Chondrocytes and cartilage biology: Meeting report from the 33rd annual meeting of the American Society for Bone and Mineral Research. IBMS BoneKEy, 2011, 8, 473-478.	0.1	0
67	Multiple Variant mRNAs with Different Length Tandem Repeats of (CAYYCC)n Produced from Bovine Selenoprotein P-like Protein Gene. Environmental Health and Preventive Medicine, 2005, 10, 103-110.	1.4	0