

Fanxin Long

List of Publications by Year in descending order

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96
papers

13,316
citations

29994

54
h-index

39575

94
g-index

102
all docs

102
docs citations

102
times ranked

15311
citing authors

#	ARTICLE	IF	CITATIONS
1	Canonical Wnt Signaling in Differentiated Osteoblasts Controls Osteoclast Differentiation. <i>Developmental Cell</i> , 2005, 8, 751-764.	3.1	1,402
2	CREB regulates hepatic gluconeogenesis through the coactivator PGC-1. <i>Nature</i> , 2001, 413, 179-183.	13.7	1,238
3	Building strong bones: molecular regulation of the osteoblast lineage. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 27-38.	16.1	898
4	Sequential roles of Hedgehog and Wnt signaling in osteoblast development. <i>Development (Cambridge)</i> , 2005, 132, 49-60.	1.2	593
5	Genetic manipulation of hedgehog signaling in the endochondral skeleton reveals a direct role in the regulation of chondrocyte proliferation. <i>Development (Cambridge)</i> , 2001, 128, 5099-5108.	1.2	565
6	Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. <i>Nature Medicine</i> , 2008, 14, 306-314.	15.2	532
7	Development of the Endochondral Skeleton. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a008334-a008334.	2.3	477
8	Rac1 Activation Controls Nuclear Localization of β -catenin during Canonical Wnt Signaling. <i>Cell</i> , 2008, 133, 340-353.	13.5	433
9	Ihh signaling is directly required for the osteoblast lineage in the endochondral skeleton. <i>Development (Cambridge)</i> , 2004, 131, 1309-1318.	1.2	372
10	WNT-LRP5 Signaling Induces Warburg Effect through mTORC2 Activation during Osteoblast Differentiation. <i>Cell Metabolism</i> , 2013, 17, 745-755.	7.2	294
11	Noncanonical Wnt Signaling through G Protein-Linked PKC δ Activation Promotes Bone Formation. <i>Developmental Cell</i> , 2007, 12, 113-127.	3.1	286
12	Energy Metabolism of the Osteoblast: Implications for Osteoporosis. <i>Endocrine Reviews</i> , 2017, 38, 255-266.	8.9	272
13	Syk, c-Src, the α β 3 integrin, and ITAM immunoreceptors, in concert, regulate osteoclastic bone resorption. <i>Journal of Cell Biology</i> , 2007, 176, 877-888.	2.3	263
14	Gli1 identifies osteogenic progenitors for bone formation and fracture repair. <i>Nature Communications</i> , 2017, 8, 2043.	5.8	248
15	Fibroblast growth factor signals regulate a wave of Hedgehog activation that is essential for coronary vascular development. <i>Genes and Development</i> , 2006, 20, 1651-1666.	2.7	214
16	Wnt signaling and cellular metabolism in osteoblasts. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1649-1657.	2.4	212
17	NOTCH1 Regulates Osteoclastogenesis Directly in Osteoclast Precursors and Indirectly via Osteoblast Lineage Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 6509-6518.	1.6	202
18	mTOR signaling in skeletal development and disease. <i>Bone Research</i> , 2018, 6, 1.	5.4	202

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19	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. <i>ELife</i> , 2020, 9, .	2.8	191
20	lhh controls cartilage development by antagonizing Gli3, but requires additional effectors to regulate osteoblast and vascular development. <i>Development (Cambridge)</i> , 2005, 132, 4339-4351.	1.2	172
21	Osx-Cre Targets Multiple Cell Types besides Osteoblast Lineage in Postnatal Mice. <i>PLoS ONE</i> , 2014, 9, e85161.	1.1	158
22	Role of HIF1 α in skeletal development. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 322-326.	1.8	144
23	Lrp5 and Lrp6 redundantly control skeletal development in the mouse embryo. <i>Developmental Biology</i> , 2011, 359, 222-229.	0.9	139
24	An FGF-WNT gene regulatory network controls lung mesenchyme development. <i>Developmental Biology</i> , 2008, 319, 426-436.	0.9	127
25	Up-regulation of glycolytic metabolism is required for HIF1 α -driven bone formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8673-8678.	3.3	126
26	Increased glutamine catabolism mediates bone anabolism in response to WNT signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 551-562.	3.9	126
27	Enthesis fibrocartilage cells originate from a population of Hedgehog-responsive cells modulated by the loading environment. <i>Development (Cambridge)</i> , 2015, 142, 196-206.	1.2	124
28	WNT7B Promotes Bone Formation in part through mTORC1. <i>PLoS Genetics</i> , 2014, 10, e1004145.	1.5	122
29	Conditional deletion of Indian hedgehog from collagen type 2 α 1-expressing cells results in abnormal endochondral bone formation. <i>Journal of Pathology</i> , 2005, 207, 453-461.	2.1	111
30	PTH Promotes Bone Anabolism by Stimulating Aerobic Glycolysis via IGF Signaling. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1959-1968.	3.1	109
31	β -catenin promotes bone formation and suppresses bone resorption in postnatal growing mice. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1160-1169.	3.1	108
32	Glucose metabolism in bone. <i>Bone</i> , 2018, 115, 2-7.	1.4	104
33	Stromal-Initiated Changes in the Bone Promote Metastatic Niche Development. <i>Cell Reports</i> , 2016, 14, 82-92.	2.9	103
34	Tamoxifen-inducible gene deletion reveals a distinct cell type associated with trabecular bone, and direct regulation of PTHrP expression and chondrocyte morphology by lhh in growth region cartilage. <i>Developmental Biology</i> , 2007, 308, 93-105.	0.9	97
35	mTORC1 signaling controls mammalian skeletal growth through stimulation of protein synthesis. <i>Development (Cambridge)</i> , 2014, 141, 2848-2854.	1.2	97
36	The Gli2 transcriptional activator is a crucial effector for lhh signaling in osteoblast development and cartilage vascularization. <i>Development (Cambridge)</i> , 2009, 136, 4177-4185.	1.2	87

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37	<i>Gpr126/Adgrg6</i> deletion in cartilage models idiopathic scoliosis and pectus excavatum in mice. <i>Human Molecular Genetics</i> , 2015, 24, 4365-4373.	1.4	82
38	mTORC2 Signaling Promotes Skeletal Growth and Bone Formation in Mice. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 369-378.	3.1	82
39	Glucose metabolism induced by Bmp signaling is essential for murine skeletal development. <i>Nature Communications</i> , 2018, 9, 4831.	5.8	82
40	Notch signaling suppresses glucose metabolism in mesenchymal progenitors to restrict osteoblast differentiation. <i>Journal of Clinical Investigation</i> , 2018, 128, 5573-5586.	3.9	82
41	Bmp Induces Osteoblast Differentiation through both Smad4 and mTORC1 Signaling. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	80
42	Malic Enzyme Couples Mitochondria with Aerobic Glycolysis in Osteoblasts. <i>Cell Reports</i> , 2020, 32, 108108.	2.9	79
43	Hedgehog signaling activates a positive feedback mechanism involving insulin-like growth factors to induce osteoblast differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4678-4683.	3.3	78
44	Physiological Notch Signaling Maintains Bone Homeostasis via RBPjk and Hey Upstream of NFATc1. <i>PLoS Genetics</i> , 2012, 8, e1002577.	1.5	76
45	Shox2 is required for chondrocyte proliferation and maturation in proximal limb skeleton. <i>Developmental Biology</i> , 2007, 306, 549-559.	0.9	73
46	Hedgehog Signaling Inhibition Blocks Growth of Resistant Tumors through Effects on Tumor Microenvironment. <i>Cancer Research</i> , 2012, 72, 897-907.	0.4	72
47	Notch Signaling and Bone Remodeling. <i>Current Osteoporosis Reports</i> , 2013, 11, 126-129.	1.5	70
48	Aerobic Glycolysis in Osteoblasts. <i>Current Osteoporosis Reports</i> , 2014, 12, 433-438.	1.5	69
49	Unintended targeting of Dmp1-Cre reveals a critical role for Bmpr1a signaling in the gastrointestinal mesenchyme of adult mice. <i>Bone Research</i> , 2017, 5, 16049.	5.4	69
50	mTORC1 Signaling Promotes Osteoblast Differentiation from Preosteoblasts. <i>PLoS ONE</i> , 2015, 10, e0130627.	1.1	66
51	BMP α Smad4 signaling is required for precartilaginous mesenchymal condensation independent of Sox9 in the mouse. <i>Developmental Biology</i> , 2015, 400, 132-138.	0.9	64
52	Mechanism of shortened bones in mucopolysaccharidosis VII. <i>Molecular Genetics and Metabolism</i> , 2009, 97, 202-211.	0.5	61
53	Role of WNT7B-induced Noncanonical Pathway in Advanced Prostate Cancer. <i>Molecular Cancer Research</i> , 2013, 11, 482-493.	1.5	59
54	FGF signaling in the osteoprogenitor lineage non-autonomously regulates postnatal chondrocyte proliferation and skeletal growth. <i>Development (Cambridge)</i> , 2016, 143, 1811-22.	1.2	56

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55	Both aerobic glycolysis and mitochondrial respiration are required for osteoclast differentiation. <i>FASEB Journal</i> , 2020, 34, 11058-11067.	0.2	55
56	Inhibition of Ca ²⁺ /Calmodulin-Dependent Protein Kinase Kinase 2 Stimulates Osteoblast Formation and Inhibits Osteoclast Differentiation. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1599-1610.	3.1	52
57	Dual function of Bmpr1a signaling in restricting preosteoblast proliferation and stimulating osteoblast activity in the mouse. <i>Development (Cambridge)</i> , 2015, 143, 339-47.	1.2	52
58	Regulation of Endochondral Cartilage Growth in the Developing Avian Limb: Cooperative Involvement of Perichondrium and Periosteum. <i>Developmental Biology</i> , 2001, 240, 433-442.	0.9	47
59	Hedgehog signaling via Gli2 prevents obesity induced by high-fat diet in adult mice. <i>ELife</i> , 2017, 6, .	2.8	47
60	Rational Design of Bisphosphonate Lipid-like Materials for mRNA Delivery to the Bone Microenvironment. <i>Journal of the American Chemical Society</i> , 2022, 144, 9926-9937.	6.6	46
61	Wnt Protein Signaling Reduces Nuclear Acetyl-CoA Levels to Suppress Gene Expression during Osteoblast Differentiation. <i>Journal of Biological Chemistry</i> , 2016, 291, 13028-13039.	1.6	43
62	Indian hedgehog requires additional effectors besides Runx2 to induce osteoblast differentiation. <i>Developmental Biology</i> , 2012, 362, 76-82.	0.9	41
63	Increased glycolysis mediates Wnt7b-induced bone formation. <i>FASEB Journal</i> , 2019, 33, 7810-7821.	0.2	38
64	Hedgehog signaling mediates woven bone formation and vascularization during stress fracture healing. <i>Bone</i> , 2015, 81, 524-532.	1.4	36
65	Biphasic regulation of glutamine consumption by WNT during osteoblast differentiation. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	36
66	BMPRIA Mediated Signaling Is Essential for Temporomandibular Joint Development in Mice. <i>PLoS ONE</i> , 2014, 9, e101000.	1.1	33
67	Independent regulation of skeletal growth by Ihh and IGF signaling. <i>Developmental Biology</i> , 2006, 298, 327-333.	0.9	31
68	Inducible expression of Wnt7b promotes bone formation in aged mice and enhances fracture healing. <i>Bone Research</i> , 2020, 8, 4.	5.4	30
69	Tissue-specific Regulation of the Type X Collagen Gene. <i>Journal of Biological Chemistry</i> , 1995, 270, 31310-31314.	1.6	29
70	Hedgehog signaling stimulates the conversion of cholesterol to steroids. <i>Cellular Signalling</i> , 2015, 27, 487-497.	1.7	29
71	Constitutive Activation of IKK2/NF- κ B Impairs Osteogenesis and Skeletal Development. <i>PLoS ONE</i> , 2014, 9, e91421.	1.1	28
72	Rictor is required for optimal bone accrual in response to anti-sclerostin therapy in the mouse. <i>Bone</i> , 2016, 85, 1-8.	1.4	23

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73	High expression of Sonic hedgehog in allergic airway epithelia contributes to goblet cell metaplasia. <i>Mucosal Immunology</i> , 2018, 11, 1306-1315.	2.7	23
74	Multiple Transcriptional Elements in the Avian Type X Collagen Gene. <i>Journal of Biological Chemistry</i> , 1998, 273, 6542-6549.	1.6	22
75	The Amino Acid Sensor <i>Eif2ak4/GCN2</i> Is Required for Proliferation of Osteoblast Progenitors in Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2004-2014.	3.1	21
76	Differential involvement of Wnt signaling in Bmp regulation of cancellous versus periosteal bone growth. <i>Bone Research</i> , 2017, 5, 17016.	5.4	20
77	mTORC1 Signaling Promotes Limb Bud Cell Growth and Chondrogenesis. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 748-753.	1.2	20
78	Wnt7b can replace Ihh to induce hypertrophic cartilage vascularization but not osteoblast differentiation during endochondral bone development. <i>Bone Research</i> , 2014, 2, 14004.	5.4	19
79	Type X Collagen and Other Up-Regulated Components of the Avian Hypertrophic Cartilage Program. <i>Progress in Molecular Biology and Translational Science</i> , 1998, 60, 79-109.	1.9	18
80	Suppression of CXCL12 Production by Bone Marrow Osteoblasts Is a Common and Critical Pathway for Cytokine-Induced Mobilization.. <i>Blood</i> , 2007, 110, 220-220.	0.6	18
81	Signaling Cascades Governing Cdc42-Mediated Chondrogenic Differentiation and Mesenchymal Condensation. <i>Genetics</i> , 2016, 202, 1055-1069.	1.2	17
82	When the Gut Talks to Bone. <i>Cell</i> , 2008, 135, 795-796.	13.5	16
83	Gli1+ progenitors mediate bone anabolic function of teriparatide via Hh and Igf signaling. <i>Cell Reports</i> , 2021, 36, 109542.	2.9	15
84	The critical role of Hedgehog-responsive mesenchymal progenitors in meniscus development and injury repair. <i>ELife</i> , 2021, 10, .	2.8	14
85	Impaired glucose metabolism underlies articular cartilage degeneration in osteoarthritis. <i>FASEB Journal</i> , 2022, 36, .	0.2	14
86	Constitutive Activation of Gli2 Impairs Bone Formation in Postnatal Growing Mice. <i>PLoS ONE</i> , 2013, 8, e55134.	1.1	10
87	Targeting intercellular signals for bone regeneration from bone marrow mesenchymal progenitors. <i>Cell Cycle</i> , 2008, 7, 2106-2111.	1.3	9
88	Functional interaction between Wnt and Bmp signaling in periosteal bone growth. <i>Scientific Reports</i> , 2021, 11, 10782.	1.6	9
89	Diet-Induced Metabolic Dysregulation in Female Mice Causes Osteopenia in Adult Offspring. <i>Journal of the Endocrine Society</i> , 2020, 4, bvaa028.	0.1	8
90	Energy Metabolism and Bone. <i>Bone</i> , 2018, 115, 1.	1.4	6

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91	Less Is More: Ditching Mitochondria Saves Hypoxic Cartilage. <i>Developmental Cell</i> , 2019, 49, 656-658.	3.1	5
92	WNT7B overexpression rescues bone loss caused by glucocorticoids in mice. <i>FASEB Journal</i> , 2021, 35, e21683.	0.2	4
93	Prenatal Bone Development. , 2012, , 39-53.		3
94	Radioactive In Situ Hybridization to Detect Gene Expression in Skeletal Tissue Sections. <i>Methods in Molecular Biology</i> , 2014, 1130, 217-232.	0.4	3
95	Assessing Energy Substrate Oxidation &em&t;In Vitro&/em&t; with <sup&t;14&/sup&t;/sup&t;CO<sub&t;2&/sub&t;/sub&t; Trapping. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	1
96	Osteoblast Differentiation. , 2020, , 409-415.		0