

# Fanxin Long

## List of Publications by Year in descending order

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Version: 2024-02-01

96  
papers

13,316  
citations

30070

54  
h-index

39675

94  
g-index

102  
all docs

102  
docs citations

102  
times ranked

15311  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing Energy Substrate Oxidation & In Vitro with $^{14}\text{C}$ and $^{13}\text{C}$ Trapping. Journal of Visualized Experiments, 2022, , .	0.3	1
2	Impaired glucose metabolism underlies articular cartilage degeneration in osteoarthritis. FASEB Journal, 2022, 36, .	0.5	14
3	Rational Design of Bisphosphonate Lipid-like Materials for mRNA Delivery to the Bone Microenvironment. Journal of the American Chemical Society, 2022, 144, 9926-9937.	13.7	46
4	Biphasic regulation of glutamine consumption by WNT during osteoblast differentiation. Journal of Cell Science, 2021, 134, .	2.0	36
5	Functional interaction between Wnt and Bmp signaling in periosteal bone growth. Scientific Reports, 2021, 11, 10782.	3.3	9
6	WNT7B overexpression rescues bone loss caused by glucocorticoids in mice. FASEB Journal, 2021, 35, e21683.	0.5	4
7	The critical role of Hedgehog-responsive mesenchymal progenitors in meniscus development and injury repair. ELife, 2021, 10, .	6.0	14
8	Cli1+ progenitors mediate bone anabolic function of teriparatide via Hh and Igf signaling. Cell Reports, 2021, 36, 109542.	6.4	15
9	Malic Enzyme Couples Mitochondria with Aerobic Glycolysis in Osteoblasts. Cell Reports, 2020, 32, 108108.	6.4	79
10	The Amino Acid Sensor <i>Eif2ak4</i> /GCN2 Is Required for Proliferation of Osteoblast Progenitors in Mice. Journal of Bone and Mineral Research, 2020, 35, 2004-2014.	2.8	21
11	Diet-Induced Metabolic Dysregulation in Female Mice Causes Osteopenia in Adult Offspring. Journal of the Endocrine Society, 2020, 4, bvaa028.	0.2	8
12	Both aerobic glycolysis and mitochondrial respiration are required for osteoclast differentiation. FASEB Journal, 2020, 34, 11058-11067.	0.5	55
13	Inducible expression of Wnt7b promotes bone formation in aged mice and enhances fracture healing. Bone Research, 2020, 8, 4.	11.4	30
14	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. ELife, 2020, 9, .	6.0	191
15	Osteoblast Differentiation. , 2020, , 409-415.		0
16	Less Is More: Ditching Mitochondria Saves Hypoxic Cartilage. Developmental Cell, 2019, 49, 656-658.	7.0	5
17	Increased glycolysis mediates Wnt7b-induced bone formation. FASEB Journal, 2019, 33, 7810-7821.	0.5	38
18	mTOR signaling in skeletal development and disease. Bone Research, 2018, 6, 1.	11.4	202

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19	Glucose metabolism in bone. <i>Bone</i> , 2018, 115, 2-7.	2.9	104
20	Glucose metabolism induced by Bmp signaling is essential for murine skeletal development. <i>Nature Communications</i> , 2018, 9, 4831.	12.8	82
21	Energy Metabolism and Bone. <i>Bone</i> , 2018, 115, 1.	2.9	6
22	High expression of Sonic hedgehog in allergic airway epithelia contributes to goblet cell metaplasia. <i>Mucosal Immunology</i> , 2018, 11, 1306-1315.	6.0	23
23	Notch signaling suppresses glucose metabolism in mesenchymal progenitors to restrict osteoblast differentiation. <i>Journal of Clinical Investigation</i> , 2018, 128, 5573-5586.	8.2	82
24	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.	11.4	69
25	Energy Metabolism of the Osteoblast: Implications for Osteoporosis. <i>Endocrine Reviews</i> , 2017, 38, 255-266.	20.1	272
26	Differential involvement of Wnt signaling in Bmp regulation of cancellous versus periosteal bone growth. <i>Bone Research</i> , 2017, 5, 17016.	11.4	20
27	Bmp Induces Osteoblast Differentiation through both Smad4 and mTORC1 Signaling. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	80
28	Gli1 identifies osteogenic progenitors for bone formation and fracture repair. <i>Nature Communications</i> , 2017, 8, 2043.	12.8	248
29	mTORC1 Signaling Promotes Limb Bud Cell Growth and Chondrogenesis. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 748-753.	2.6	20
30	Wnt signaling and cellular metabolism in osteoblasts. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1649-1657.	5.4	212
31	Hedgehog signaling via Gli2 prevents obesity induced by high-fat diet in adult mice. <i>ELife</i> , 2017, 6, .	6.0	47
32	Signaling Cascades Governing Cdc42-Mediated Chondrogenic Differentiation and Mesenchymal Condensation. <i>Genetics</i> , 2016, 202, 1055-1069.	2.9	17
33	FGF signaling in the osteoprogenitor lineage non-autonomously regulates postnatal chondrocyte proliferation and skeletal growth. <i>Development (Cambridge)</i> , 2016, 143, 1811-22.	2.5	56
34	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.	3.4	43
35	Stromal-Initiated Changes in the Bone Promote Metastatic Niche Development. <i>Cell Reports</i> , 2016, 14, 82-92.	6.4	103
36	Rictor is required for optimal bone accrual in response to anti-sclerostin therapy in the mouse. <i>Bone</i> , 2016, 85, 1-8.	2.9	23

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37	PTH Promotes Bone Anabolism by Stimulating Aerobic Glycolysis via IGF Signaling. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1959-1968.	2.8	109
38	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.	7.1	78
39	Dual function of Bmpr1a signaling in restricting preosteoblast proliferation and stimulating osteoblast activity in the mouse. <i>Development (Cambridge)</i> , 2015, 143, 339-47.	2.5	52
40	Hedgehog signaling stimulates the conversion of cholesterol to steroids. <i>Cellular Signalling</i> , 2015, 27, 487-497.	3.6	29
41	BMPá€“Smad4 signaling is required for precartilaginous mesenchymal condensation independent of Sox9 in the mouse. <i>Developmental Biology</i> , 2015, 400, 132-138.	2.0	64
42	mTORC1 Signaling Promotes Osteoblast Differentiation from Preosteoblasts. <i>PLoS ONE</i> , 2015, 10, e0130627.	2.5	66
43	<i>Gpr126/Adgrg6</i> deletion in cartilage models idiopathic scoliosis and pectus excavatum in mice. <i>Human Molecular Genetics</i> , 2015, 24, 4365-4373.	2.9	82
44	Hedgehog signaling mediates woven bone formation and vascularization during stress fracture healing. <i>Bone</i> , 2015, 81, 524-532.	2.9	36
45	mTORC2 Signaling Promotes Skeletal Growth and Bone Formation in Mice. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 369-378.	2.8	82
46	Enthesis fibrocartilage cells originate from a population of Hedgehog-responsive cells modulated by the loading environment. <i>Development (Cambridge)</i> , 2015, 142, 196-206.	2.5	124
47	Increased glutamine catabolism mediates bone anabolism in response to WNT signaling. <i>Journal of Clinical Investigation</i> , 2015, 125, 551-562.	8.2	126
48	Osx-Cre Targets Multiple Cell Types besides Osteoblast Lineage in Postnatal Mice. <i>PLoS ONE</i> , 2014, 9, e85161.	2.5	158
49	BMPRIA Mediated Signaling Is Essential for Temporomandibular Joint Development in Mice. <i>PLoS ONE</i> , 2014, 9, e101000.	2.5	33
50	Wnt7b can replace lhh to induce hypertrophic cartilage vascularization but not osteoblast differentiation during endochondral bone development. <i>Bone Research</i> , 2014, 2, 14004.	11.4	19
51	Aerobic Glycolysis in Osteoblasts. <i>Current Osteoporosis Reports</i> , 2014, 12, 433-438.	3.6	69
52	Up-regulation of glycolytic metabolism is required for HIF1á€“driven bone formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8673-8678.	7.1	126
53	WNT7B Promotes Bone Formation in part through mTORC1. <i>PLoS Genetics</i> , 2014, 10, e1004145.	3.5	122
54	mTORC1 signaling controls mammalian skeletal growth through stimulation of protein synthesis. <i>Development (Cambridge)</i> , 2014, 141, 2848-2854.	2.5	97

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55	Radioactive In Situ Hybridization to Detect Gene Expression in Skeletal Tissue Sections. <i>Methods in Molecular Biology</i> , 2014, 1130, 217-232.	0.9	3
56	Constitutive Activation of IKK2/NF- $\kappa$ B Impairs Osteogenesis and Skeletal Development. <i>PLoS ONE</i> , 2014, 9, e91421.	2.5	28
57	Development of the Endochondral Skeleton. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a008334-a008334.	5.5	477
58	Inhibition of Ca <sup>2+</sup> /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.	2.8	52
59	WNT-LRP5 Signaling Induces Warburg Effect through mTORC2 Activation during Osteoblast Differentiation. <i>Cell Metabolism</i> , 2013, 17, 745-755.	16.2	294
60	Notch Signaling and Bone Remodeling. <i>Current Osteoporosis Reports</i> , 2013, 11, 126-129.	3.6	70
61	Role of WNT7B-induced Noncanonical Pathway in Advanced Prostate Cancer. <i>Molecular Cancer Research</i> , 2013, 11, 482-493.	3.4	59
62	$\beta$ -catenin promotes bone formation and suppresses bone resorption in postnatal growing mice. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1160-1169.	2.8	108
63	Constitutive Activation of Gli2 Impairs Bone Formation in Postnatal Growing Mice. <i>PLoS ONE</i> , 2013, 8, e55134.	2.5	10
64	Physiological Notch Signaling Maintains Bone Homeostasis via RBPjk and Hey Upstream of NFATc1. <i>PLoS Genetics</i> , 2012, 8, e1002577.	3.5	76
65	Hedgehog Signaling Inhibition Blocks Growth of Resistant Tumors through Effects on Tumor Microenvironment. <i>Cancer Research</i> , 2012, 72, 897-907.	0.9	72
66	Prenatal Bone Development. , 2012, , 39-53.		3
67	Building strong bones: molecular regulation of the osteoblast lineage. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 27-38.	37.0	898
68	Indian hedgehog requires additional effectors besides Runx2 to induce osteoblast differentiation. <i>Developmental Biology</i> , 2012, 362, 76-82.	2.0	41
69	Lrp5 and Lrp6 redundantly control skeletal development in the mouse embryo. <i>Developmental Biology</i> , 2011, 359, 222-229.	2.0	139
70	Role of HIF-1 $\alpha$ in skeletal development. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 322-326.	3.8	144
71	The Gli2 transcriptional activator is a crucial effector for Ihh signaling in osteoblast development and cartilage vascularization. <i>Development (Cambridge)</i> , 2009, 136, 4177-4185.	2.5	87
72	Mechanism of shortened bones in mucopolysaccharidosis VII. <i>Molecular Genetics and Metabolism</i> , 2009, 97, 202-211.	1.1	61

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73	Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. <i>Nature Medicine</i> , 2008, 14, 306-314.	30.7	532
74	An FGF-WNT gene regulatory network controls lung mesenchyme development. <i>Developmental Biology</i> , 2008, 319, 426-436.	2.0	127
75	Rac1 Activation Controls Nuclear Localization of $\beta$ -catenin during Canonical Wnt Signaling. <i>Cell</i> , 2008, 133, 340-353.	28.9	433
76	When the Gut Talks to Bone. <i>Cell</i> , 2008, 135, 795-796.	28.9	16
77	Targeting intercellular signals for bone regeneration from bone marrow mesenchymal progenitors. <i>Cell Cycle</i> , 2008, 7, 2106-2111.	2.6	9
78	NOTCH1 Regulates Osteoclastogenesis Directly in Osteoclast Precursors and Indirectly via Osteoblast Lineage Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 6509-6518.	3.4	202
79	Syk, c-Src, the $\alpha$ <sub>v</sub> $\beta$ <sub>3</sub> integrin, and ITAM immunoreceptors, in concert, regulate osteoclastic bone resorption. <i>Journal of Cell Biology</i> , 2007, 176, 877-888.	5.2	263
80	Shox2 is required for chondrocyte proliferation and maturation in proximal limb skeleton. <i>Developmental Biology</i> , 2007, 306, 549-559.	2.0	73
81	Tamoxifen-inducible gene deletion reveals a distinct cell type associated with trabecular bone, and direct regulation of PTHrP expression and chondrocyte morphology by Ihh in growth region cartilage. <i>Developmental Biology</i> , 2007, 308, 93-105.	2.0	97
82	Noncanonical Wnt Signaling through G Protein-Linked PKC $\delta$ Activation Promotes Bone Formation. <i>Developmental Cell</i> , 2007, 12, 113-127.	7.0	286
83	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.	1.4	18
84	Independent regulation of skeletal growth by Ihh and IGF signaling. <i>Developmental Biology</i> , 2006, 298, 327-333.	2.0	31
85	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.	5.9	214
86	Conditional deletion of Indian hedgehog from collagen type 2 $\alpha$ 1-expressing cells results in abnormal endochondral bone formation. <i>Journal of Pathology</i> , 2005, 207, 453-461.	4.5	111
87	Ihh controls cartilage development by antagonizing Gli3, but requires additional effectors to regulate osteoblast and vascular development. <i>Development (Cambridge)</i> , 2005, 132, 4339-4351.	2.5	172
88	Canonical Wnt Signaling in Differentiated Osteoblasts Controls Osteoclast Differentiation. <i>Developmental Cell</i> , 2005, 8, 751-764.	7.0	1,402
89	Sequential roles of Hedgehog and Wnt signaling in osteoblast development. <i>Development (Cambridge)</i> , 2005, 132, 49-60.	2.5	593
90	Ihh signaling is directly required for the osteoblast lineage in the endochondral skeleton. <i>Development (Cambridge)</i> , 2004, 131, 1309-1318.	2.5	372

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91	Regulation of Endochondral Cartilage Growth in the Developing Avian Limb: Cooperative Involvement of Perichondrium and Periosteum. <i>Developmental Biology</i> , 2001, 240, 433-442.	2.0	47
92	CREB regulates hepatic gluconeogenesis through the coactivator PGC-1. <i>Nature</i> , 2001, 413, 179-183.	27.8	1,238
93	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.	2.5	565
94	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
95	Multiple Transcriptional Elements in the Avian Type X Collagen Gene. <i>Journal of Biological Chemistry</i> , 1998, 273, 6542-6549.	3.4	22
96	Tissue-specific Regulation of the Type X Collagen Gene. <i>Journal of Biological Chemistry</i> , 1995, 270, 31310-31314.	3.4	29