

Ernestina Schipani

List of Publications by Year in descending order

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109
papers

9,986
citations

47006

47
h-index

38395

95
g-index

110
all docs

110
docs citations

110
times ranked

10210
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia in cartilage: HIF-1 α is essential for chondrocyte growth arrest and survival. <i>Genes and Development</i> , 2001, 15, 2865-2876.	5.9	690
2	A Constitutively Active Mutant PTH-PTHrP Receptor in Jansen-Type Metaphyseal Chondrodysplasia. <i>Science</i> , 1995, 268, 98-100.	12.6	657
3	The hypoxia-inducible factor 1 α pathway couples angiogenesis to osteogenesis during skeletal development. <i>Journal of Clinical Investigation</i> , 2007, 117, 1616-1626.	8.2	616
4	Indian hedgehog couples chondrogenesis to osteogenesis in endochondral bone development. <i>Journal of Clinical Investigation</i> , 2001, 107, 295-304.	8.2	356
5	VEGFA is necessary for chondrocyte survival during bone development. <i>Development (Cambridge)</i> , 2004, 131, 2161-2171.	2.5	347
6	Control of Bone Mass and Remodeling by PTH Receptor Signaling in Osteocytes. <i>PLoS ONE</i> , 2008, 3, e2942.	2.5	331
7	Molecular mechanisms of endochondral bone development. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 658-665.	2.1	330
8	Regulation of Osteogenesis-Angiogenesis Coupling by HIFs and VEGF. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1347-1353.	2.8	321
9	Dicer-dependent pathways regulate chondrocyte proliferation and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1949-1954.	7.1	315
10	PTHrP and Indian hedgehog control differentiation of growth plate chondrocytes at multiple steps. <i>Development (Cambridge)</i> , 2002, 129, 2977-2986.	2.5	272
11	The HIF Signaling Pathway in Osteoblasts Directly Modulates Erythropoiesis through the Production of EPO. <i>Cell</i> , 2012, 149, 63-74.	28.9	244
12	Differential regulation of myeloid leukemias by the bone marrow microenvironment. <i>Nature Medicine</i> , 2013, 19, 1513-1517.	30.7	233
13	SIRT1 regulates differentiation of mesenchymal stem cells by deacetylating β -catenin. <i>EMBO Molecular Medicine</i> , 2013, 5, 430-440.	6.9	233
14	HIF-1 α controls extracellular matrix synthesis by epiphyseal chondrocytes. <i>Journal of Cell Science</i> , 2003, 116, 1819-1826.	2.0	231
15	Hypoxia-driven pathways in bone development, regeneration and disease. <i>Nature Reviews Rheumatology</i> , 2012, 8, 358-366.	8.0	231
16	Indian hedgehog stimulates periarticular chondrocyte differentiation to regulate growth plate length independently of PTHrP. <i>Journal of Clinical Investigation</i> , 2005, 115, 1734-1742.	8.2	227
17	Suppression of Wnt Signaling by Dkk1 Attenuates PTH-Mediated Stromal Cell Response and New Bone Formation. <i>Cell Metabolism</i> , 2010, 11, 161-171.	16.2	203
18	Hif-1 α regulates differentiation of limb bud mesenchyme and joint development. <i>Journal of Cell Biology</i> , 2007, 177, 451-464.	5.2	181

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19	Inhibition of Hif1 \pm prevents both trauma-induced and genetic heterotopic ossification. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E338-47.	7.1	178
20	The Importance of Autosomal Genes in Kallmann Syndrome: Genotype-Phenotype Correlations and Neuroendocrine Characteristics. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 1532-1538.	3.6	170
21	Role of hypoxia-inducible factor-1 \pm in angiogenic osteogenic coupling. Journal of Molecular Medicine, 2009, 87, 583-590.	3.9	157
22	Role of HIF-1 \pm in skeletal development. Annals of the New York Academy of Sciences, 2010, 1192, 322-326.	3.8	144
23	Hypoxia, HIFs and bone development. Bone, 2010, 47, 190-196.	2.9	123
24	Deletion of Vhlh in chondrocytes reduces cell proliferation and increases matrix deposition during growth plate development. Development (Cambridge), 2004, 131, 2497-2508.	2.5	119
25	PTHrP and Indian hedgehog control differentiation of growth plate chondrocytes at multiple steps. Development (Cambridge), 2002, 129, 2977-86.	2.5	118
26	The interplay of osteogenesis and hematopoiesis. Journal of Cell Biology, 2004, 167, 1113-1122.	5.2	113
27	Cellular Hypoxia Promotes Heterotopic Ossification by Amplifying BMP Signaling. Journal of Bone and Mineral Research, 2016, 31, 1652-1665.	2.8	110
28	Scleraxis-Lineage Cells Contribute to Ectopic Bone Formation in Muscle and Tendon. Stem Cells, 2017, 35, 705-710.	3.2	102
29	Hypoxic Regulation of Nucleus Pulposus Cell Survival. American Journal of Pathology, 2010, 176, 1577-1583.	3.8	101
30	Bone marrow mesenchymal stem cells. Journal of Cellular Biochemistry, 2010, 109, 277-282.	2.6	96
31	Hypoxia and HIF-1 \pm in chondrogenesis. Seminars in Cell and Developmental Biology, 2005, 16, 539-546.	5.0	94
32	VEGF-independent cell-autonomous functions of HIF-1 \pm regulating oxygen consumption in fetal cartilage are critical for chondrocyte survival. Journal of Bone and Mineral Research, 2012, 27, 596-609.	2.8	94
33	Erythropoietin stimulates murine and human fibroblast growth factor-23, revealing novel roles for bone and bone marrow. Haematologica, 2017, 102, e427-e430.	3.5	93
34	Regulation of HIF1 \pm under Hypoxia by APE1/Ref-1 Impacts CA9 Expression: Dual Targeting in Patient-Derived 3D Pancreatic Cancer Models. Molecular Cancer Therapeutics, 2016, 15, 2722-2732.	4.1	91
35	Hypoxia promotes noncanonical autophagy in nucleus pulposus cells independent of MTOR and HIF1A signaling. Autophagy, 2016, 12, 1631-1646.	9.1	89
36	Loss of HIF-1 \pm in the Notochord Results in Cell Death and Complete Disappearance of the Nucleus Pulposus. PLoS ONE, 2014, 9, e110768.	2.5	83

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37	PTHrP, PTH, and the PTH/PTHrP receptor in endochondral bone development. Birth Defects Research Part C: Embryo Today Reviews, 2003, 69, 352-362.	3.6	78
38	Oxygen-sensing PHDs regulate bone homeostasis through the modulation of osteoprotegerin. Genes and Development, 2015, 29, 817-831.	5.9	78
39	A Central Role for Hypoxic Signaling in Cartilage, Bone, and Hematopoiesis. Current Osteoporosis Reports, 2011, 9, 46-52.	3.6	76
40	Hypoxia-inducible Factor-1 (HIF-1) but Not HIF-2 Is Essential for Hypoxic Induction of Collagen Prolyl 4-Hydroxylases in Primary Newborn Mouse Epiphyseal Growth Plate Chondrocytes. Journal of Biological Chemistry, 2012, 287, 37134-37144.	3.4	75
41	Phospholipase C Signaling via the Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Is Essential for Normal Bone Responses to PTH. Endocrinology, 2010, 151, 3502-3513.	2.8	66
42	Extracellular matrix genes as hypoxia-inducible targets. Cell and Tissue Research, 2010, 339, 19-29.	2.9	61
43	Anabolic action of parathyroid hormone regulated by the β_2 -adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7433-7438.	7.1	61
44	Fetal Growth Plate. Annals of the New York Academy of Sciences, 2007, 1117, 26-39.	3.8	60
45	MicroRNA-140 and the silencing of osteoarthritis. Genes and Development, 2010, 24, 1075-1080.	5.9	60
46	High irisin levels are associated with better glycemic control and bone health in children with Type 1 diabetes. Diabetes Research and Clinical Practice, 2018, 141, 10-17.	2.8	60
47	Lack of HIF-2 in limb bud mesenchyme causes a modest and transient delay of endochondral bone development. Nature Medicine, 2011, 17, 25-26.	30.7	53
48	HIF targets in bone remodeling and metastatic disease. , 2015, 150, 169-177.		52
49	Nf2/Merlin Regulates Hematopoietic Stem Cell Behavior by Altering Microenvironmental Architecture. Cell Stem Cell, 2008, 3, 221-227.	11.1	50
50	Hypoxia and HIF-1 in Chondrogenesis. Annals of the New York Academy of Sciences, 2006, 1068, 66-73.	3.8	47
51	Polycomb repressive complex 2 regulates skeletal growth by suppressing Wnt and TGF- β signalling. Nature Communications, 2016, 7, 12047.	12.8	47
52	Bicarbonate Recycling by HIF-1-Dependent Carbonic Anhydrase Isoforms 9 and 12 Is Critical in Maintaining Intracellular pH and Viability of Nucleus Pulposus Cells. Journal of Bone and Mineral Research, 2018, 33, 338-355.	2.8	46
53	Suppressing mesenchymal stem cell hypertrophy and endochondral ossification in 3D cartilage regeneration with nanofibrous poly(l-lactic acid) scaffold and matrilin-3. Acta Biomaterialia, 2018, 76, 29-38.	8.3	46
54	Severe Extracellular Matrix Abnormalities and Chondrodysplasia in Mice Lacking Collagen Prolyl 4-Hydroxylase Isoenzyme II in Combination with a Reduced Amount of Isoenzyme I. Journal of Biological Chemistry, 2015, 290, 16964-16978.	3.4	43

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55	The role of HIF proteins in maintaining the metabolic health of the intervertebral disc. <i>Nature Reviews Rheumatology</i> , 2021, 17, 426-439.	8.0	43
56	The PTH/PTHrP receptor in Jansen's metaphyseal chondrodysplasia. <i>Journal of Endocrinological Investigation</i> , 2000, 23, 545-554.	3.3	41
57	Suppressing Mitochondrial Respiration Is Critical for Hypoxia Tolerance in the Fetal Growth Plate. <i>Developmental Cell</i> , 2019, 49, 748-763.e7.	7.0	41
58	Hypoxia-inducible factor 2 α is a negative regulator of osteoblastogenesis and bone mass accrual. <i>Bone Research</i> , 2019, 7, 7.	11.4	39
59	In Vivo Targeted Deletion of Calpain Small Subunit, <i>Capn4</i> , in Cells of the Osteoblast Lineage Impairs Cell Proliferation, Differentiation, and Bone Formation. <i>Journal of Biological Chemistry</i> , 2008, 283, 21002-21010.	3.4	38
60	Selective and Nonselective Inverse Agonists for Constitutively Active Type-1 Parathyroid Hormone Receptors: Evidence for Altered Receptor Conformations*. <i>Endocrinology</i> , 2001, 142, 1534-1545.	2.8	36
61	Loss of <i>Gsα</i> in the Postnatal Skeleton Leads to Low Bone Mass and a Blunted Response to Anabolic Parathyroid Hormone Therapy. <i>Journal of Biological Chemistry</i> , 2016, 291, 1631-1642.	3.4	36
62	Partial rescue of postnatal growth plate abnormalities in <i>lhh</i> mutants by expression of a constitutively active PTH/PTHrP receptor. <i>Bone</i> , 2010, 46, 472-478.	2.9	32
63	Sphingosine 1-phosphate (S1P) signalling: Role in bone biology and potential therapeutic target for bone repair. <i>Pharmacological Research</i> , 2017, 125, 232-245.	7.1	30
64	Osteopontin Negatively Regulates Parathyroid Hormone Receptor Signaling in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2008, 283, 19400-19409.	3.4	29
65	Osteoprotegerin Abrogated Cortical Porosity and Bone Marrow Fibrosis in a Mouse Model of Constitutive Activation of the PTH/PTHrP Receptor. <i>American Journal of Pathology</i> , 2009, 174, 2160-2171.	3.8	29
66	Loss of VHL in mesenchymal progenitors of the limb bud alters multiple steps of endochondral bone development. <i>Developmental Biology</i> , 2014, 393, 124-136.	2.0	29
67	Fibromodulin is expressed by both chondrocytes and osteoblasts during fetal bone development. <i>Journal of Cellular Biochemistry</i> , 2001, 82, 46-57.	2.6	27
68	Targeted Deletion of <i>Capn4</i> in Cells of the Chondrocyte Lineage Impairs Chondrocyte Proliferation and Differentiation. <i>Molecular and Cellular Biology</i> , 2010, 30, 2799-2810.	2.3	27
69	Regulation of Bone Marrow Angiogenesis by Osteoblasts during Bone Development and Homeostasis. <i>Frontiers in Endocrinology</i> , 2013, 4, 85.	3.5	25
70	Receptors for parathyroid hormone and parathyroid hormone-related peptide: from molecular cloning to definition of diseases. <i>Current Opinion in Nephrology and Hypertension</i> , 1996, 5, 300-306.	2.0	24
71	Constitutively Active Parathyroid Hormone Receptor Signaling in Cells in Osteoblastic Lineage Suppresses Mechanical Unloading-induced Bone Resorption. <i>Journal of Biological Chemistry</i> , 2007, 282, 25509-25516.	3.4	22
72	Constitutively active PTH/PTHrP receptor specifically expressed in osteoblasts enhances bone formation induced by bone marrow ablation. <i>Journal of Cellular Physiology</i> , 2012, 227, 408-415.	4.1	22

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73	Chronic inflammation triggered by the NLRP3 inflammasome in myeloid cells promotes growth plate dysplasia by mesenchymal cells. <i>Scientific Reports</i> , 2017, 7, 4880.	3.3	22
74	Systemic Administration of Recombinant Irisin Accelerates Fracture Healing in Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10863.	4.1	22
75	A Novel Population of Cells Expressing Both Hematopoietic and Mesenchymal Markers Is Present in the Normal Adult Bone Marrow and Is Augmented in a Murine Model of Marrow Fibrosis. <i>American Journal of Pathology</i> , 2012, 180, 811-818.	3.8	20
76	HIF-1 α and growth plate development: what we really know. <i>BoneKEy Reports</i> , 2015, 4, 730.	2.7	19
77	Per α 1 is a specific clock gene regulated by parathyroid hormone (PTH) signaling in osteoblasts and is functional for the transcriptional events induced by PTH. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 433-438.	2.6	17
78	<i>Hox11</i> genes regulate postnatal longitudinal bone growth and growth plate proliferation. <i>Biology Open</i> , 2015, 4, 1538-1548.	1.2	17
79	Deletion of the Transcription Factor PGC-1 α in Mice Negatively Regulates Bone Mass. <i>Calcified Tissue International</i> , 2018, 103, 638-652.	3.1	17
80	Impairment of Bone Remodeling in <i>LIGHT/TNFSF14</i> -Deficient Mice. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 704-719.	2.8	16
81	Analysis of Mouse Growth Plate Development. <i>Current Protocols in Mouse Biology</i> , 2016, 6, 67-130.	1.2	15
82	Posttranslational modifications of collagens as targets of hypoxia and Hif α 1 α in endochondral bone development. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 317-321.	3.8	12
83	Fibrosis and Hypoxia-Inducible Factor-1 α -Dependent Tumors of the Soft Tissue on Loss of Von Hippel-Lindau in Mesenchymal Progenitors. <i>American Journal of Pathology</i> , 2015, 185, 3090-3101.	3.8	9
84	Mice expressing a constitutively active PTH/PTHrP receptor in osteoblasts show reduced callus size but normal callus morphology during fracture healing. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2007, 78, 39-45.	3.3	8
85	About the importance of being desulfated: Figure 1.. <i>Genes and Development</i> , 2008, 22, 2750-2754.	5.9	8
86	Development of the Skeleton. , 2013, , 97-126.		8
87	An Inverse Agonist Ligand of the PTH Receptor Partially Rescues Skeletal Defects in a Mouse Model of Jansen's Metaphyseal Chondrodysplasia. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 540-549.	2.8	8
88	Reduced Bone Mass in Collagen Prolyl 4 α -Hydroxylase <i>P4ha1</i> ^{+/Δ} ; <i>P4ha2</i> ^{+/Δ} Compound Mutant Mice. <i>JBMR Plus</i> , 2022, 6, .	2.7	8
89	In vivo survival strategies for cellular adaptation to hypoxia: HIF1 α -dependent suppression of mitochondrial oxygen consumption and decrease of intracellular hypoxia are critical for survival of hypoxic chondrocytes. <i>Bone</i> , 2020, 140, 115572.	2.9	7
90	Jansen's Metaphyseal Chondrodysplasia and Blomstrand's Lethal Chondrodysplasia. , 2002, , 1117-XLI.		6

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91	TUNEL Assay on Skeletal Tissue Sections to Detect Cell Death. <i>Methods in Molecular Biology</i> , 2014, 1130, 245-248.	0.9	6
92	Development of electrospun polymer scaffolds for the localized and controlled delivery of sponimod for the management of critical bone defects. <i>International Journal of Pharmaceutics</i> , 2020, 590, 119956.	5.2	5
93	Development of the Skeleton. , 2008, , 241-269.		4
94	Haplotype frequencies and linkage disequilibrium analysis of four frequent polymorphisms at the PTH/PTH-related peptide receptor gene locus. <i>Molecular and Cellular Probes</i> , 2004, 18, 353-357.	2.1	2
95	Genetic Disorders Caused by PTH/PTHrP Receptor Mutations. , 2008, , 1431-1452.		2
96	A new window on MSCs. <i>Blood</i> , 2008, 112, 217-218.	1.4	1
97	ATF4 and HIF-1 α in bone: An intriguing relationship. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1866-1869.	2.8	1
98	Hypoxia and the hypoxia-inducible factors in the skeleton. <i>IBMS BoneKEy</i> , 2008, 5, 275-284.	0.0	1
99	Parathyroid Hormone-Induced Modulation of the Bone Marrow Microenvironment Reduces Leukemic Stem Cells in Murine Chronic Myelogenous-Leukemia-Like Disease Via a TGFbeta-Dependent Pathway. <i>Blood</i> , 2011, 118, 1670-1670.	1.4	1
100	Differential Regulation of Myeloid Leukemias by the Bone Marrow Microenvironment. <i>Blood</i> , 2012, 120, 1245-1245.	1.4	1
101	The Role of Hypoxia-Induced Factors. , 2010, , 107-123.		1
102	Intervertebral disc: a rising star in the skeleton galaxy (ASBMR 2012). <i>IBMS BoneKEy</i> , 2013, 10, .	0.0	0
103	Development of the skeleton. , 2021, , 39-73.		0
104	Natriuretic peptides, cGMP and growth plate development. <i>BoneKEy Osteovision</i> , 0, , .	0.6	0
105	A novel PTH/PTHrP receptor (PPRc) mutation: The ongoing tale of PPRc and the growth plate becomes more complex. <i>BoneKEy Osteovision</i> , 0, , .	0.6	0
106	Biological Pathways and In Vivo Anti-Tumor Activity Induced by Atiprimod in Multiple Myeloma (MM).. <i>Blood</i> , 2006, 108, 3455-3455.	1.4	0
107	In Vivo Effects of Zoledronic Acid on Bone Remodeling.. <i>Blood</i> , 2007, 110, 3520-3520.	1.4	0
108	Parathyroid Hormone-Induced Modulation of the Bone Marrow Microenvironment Inhibits the Development of Murine Chronic Myelogenous-Leukemia-Like Disease. <i>Blood</i> , 2010, 116, 937-937.	1.4	0

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109	Fetal Growth Cartilage:. Methods in Molecular Biology, 2021, 2245, 53-84.	0.9	0