

Wenhan Chang

List of Publications by Year in descending order

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65
papers

3,798
citations

94433

37
h-index

128289

60
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66
all docs

66
docs citations

66
times ranked

3814
citing authors

#	ARTICLE	IF	CITATIONS
1	The Extracellular Calcium-Sensing Receptor (CaSR) Is a Critical Modulator of Skeletal Development. <i>Science Signaling</i> , 2008, 1, ra1.	3.6	232
2	The calcium-sensing receptor in physiology and in calcitropic and noncalcitropic diseases. <i>Nature Reviews Endocrinology</i> , 2019, 15, 33-51.	9.6	226
3	Expression and Signal Transduction of Calcium-Sensing Receptors in Cartilage and Bone1. <i>Endocrinology</i> , 1999, 140, 5883-5893.	2.8	204
4	Cartilage to bone transformation during fracture healing is coordinated by the invading vasculature and induction of the core pluripotency genes. <i>Development (Cambridge)</i> , 2017, 144, 221-234.	2.5	171
5	Phosphate acts directly on the calcium-sensing receptor to stimulate parathyroid hormone secretion. <i>Nature Communications</i> , 2019, 10, 4693.	12.8	149
6	Calcium-sensing receptor antagonists abrogate airway hyperresponsiveness and inflammation in allergic asthma. <i>Science Translational Medicine</i> , 2015, 7, 284ra60.	12.4	142
7	Role of IGF-I signaling in muscle bone interactions. <i>Bone</i> , 2015, 80, 79-88.	2.9	122
8	Insulin-Like Growth Factor-I Is Essential for Embryonic Bone Development. <i>Endocrinology</i> , 2006, 147, 4753-4761.	2.8	114
9	Extracellular Ca ²⁺ -sensing receptors— an overview. <i>Cell Calcium</i> , 2004, 35, 183-196.	2.4	109
10	Inactivation of the Calcium Sensing Receptor Inhibits E-cadherin-mediated Cell-Cell Adhesion and Calcium-induced Differentiation in Human Epidermal Keratinocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 3519-3528.	3.4	109
11	IGF-1R signaling in chondrocytes modulates growth plate development by interacting with the PTHrP/Ihh pathway. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 1437-1446.	2.8	105
12	The Calcium Sensing Receptor and Its Alternatively Spliced Form in Murine Epidermal Differentiation. <i>Journal of Biological Chemistry</i> , 2000, 275, 1183-1190.	3.4	101
13	Coupling of Calcium Receptors to Inositol Phosphate and Cyclic AMP Generation in Mammalian Cells and <i>Xenopus laevis</i> Oocytes and Immunodetection of Receptor Protein by Region-Specific Antipeptide Antisera. <i>Journal of Bone and Mineral Research</i> , 1998, 13, 570-580.	2.8	84
14	Osteoblast extracellular Ca ²⁺ -sensing receptor regulates bone development, mineralization, and turnover. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2935-2947.	2.8	83
15	Expression and Signal Transduction of Calcium-Sensing Receptors in Cartilage and Bone. <i>Endocrinology</i> , 1999, 140, 5883-5893.	2.8	81
16	Amino Acids in the Second and Third Intracellular Loops of the Parathyroid Ca ²⁺ -sensing Receptor Mediate Efficient Coupling to Phospholipase C. <i>Journal of Biological Chemistry</i> , 2000, 275, 19955-19963.	3.4	80
17	Calcium-sensing receptor-mediated NLRP3 inflammasome response to calciprotein particles drives inflammation in rheumatoid arthritis. <i>Nature Communications</i> , 2020, 11, 4243.	12.8	79
18	Glycerol-3-phosphate is an FGF23 regulator derived from the injured kidney. <i>Journal of Clinical Investigation</i> , 2020, 130, 1513-1526.	8.2	75

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19	The Role of the Calcium Sensing Receptor in Regulating Intracellular Calcium Handling in Human Epidermal Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2007, 127, 1074-1083.	0.7	74
20	Complex Formation with the Type B β^3 -Aminobutyric Acid Receptor Affects the Expression and Signal Transduction of the Extracellular Calcium-sensing Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 25030-25040.	3.4	73
21	Ablation of the Calcium-Sensing Receptor in Keratinocytes Impairs Epidermal Differentiation and Barrier Function. <i>Journal of Investigative Dermatology</i> , 2012, 132, 2350-2359.	0.7	73
22	Calcium Sensing in Cultured Chondrogenic RCJ3.1C5.18 Cells*. <i>Endocrinology</i> , 1999, 140, 1911-1919.	2.8	68
23	Constitutive Activity of the Osteoblast Ca^{2+} -Sensing Receptor Promotes Loss of Cancellous Bone. <i>Endocrinology</i> , 2007, 148, 3156-3163.	2.8	67
24	Extracellular Ca^{2+} -Sensing Receptors Modulate Matrix Production and Mineralization in Chondrogenic RCJ3.1C5.18 Cells. <i>Endocrinology</i> , 2002, 143, 1467-1474.	2.8	66
25	Expression and Functional Assessment of an Alternatively Spliced Extracellular Ca^{2+} -Sensing Receptor in Growth Plate Chondrocytes. <i>Endocrinology</i> , 2005, 146, 5294-5303.	2.8	66
26	Negative Cross-talk between Calcium-sensing Receptor and β^2 -Catenin Signaling Systems in Colonic Epithelium. <i>Journal of Biological Chemistry</i> , 2012, 287, 1158-1167.	3.4	63
27	Mammary-Specific Ablation of the Calcium-Sensing Receptor During Lactation Alters Maternal Calcium Metabolism, Milk Calcium Transport, and Neonatal Calcium Accrual. <i>Endocrinology</i> , 2013, 154, 3031-3042.	2.8	56
28	Calcium-Sensing Receptor Promotes Breast Cancer by Stimulating Intracrine Actions of Parathyroid Hormone-Related Protein. <i>Cancer Research</i> , 2016, 76, 5348-5360.	0.9	56
29	Autocrine and Paracrine Actions of IGF-I Signaling in Skeletal Development. <i>Bone Research</i> , 2013, 1, 249-259.	11.4	52
30	Osteoblast-Specific Loss of IGF1R Signaling Results in Impaired Endochondral Bone Formation During Fracture Healing. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1572-1584.	2.8	48
31	Calcium-Sensing Receptor Regulates Epidermal Intracellular Ca^{2+} Signaling and Re-Epithelialization after Wounding. <i>Journal of Investigative Dermatology</i> , 2019, 139, 919-929.	0.7	48
32	Mild Hypothermia Suppresses Calcium-Sensing Receptor (CaSR) Induction Following Forebrain Ischemia While Increasing GABA-B Receptor 1 (GABA-B-R1) Expression. <i>Translational Stroke Research</i> , 2011, 2, 195-201.	4.2	47
33	Ephrin B2/EphB4 Mediates the Actions of IGF-I Signaling in Regulating Endochondral Bone Formation. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1900-1913.	2.8	47
34	Calcium-sensing receptor (CaSR) as a novel target for ischemic neuroprotection. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 851-866.	3.7	46
35	Interplay between CaSR and PTH1R signaling in skeletal development and osteoanabolism. <i>Seminars in Cell and Developmental Biology</i> , 2016, 49, 11-23.	5.0	46
36	Amino Acids in the Cytoplasmic C Terminus of the Parathyroid Ca^{2+} -sensing Receptor Mediate Efficient Cell-surface Expression and Phospholipase C Activation. <i>Journal of Biological Chemistry</i> , 2001, 276, 44129-44136.	3.4	45

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37	Spatial bias in cAMP generation determines biological responses to PTH type 1 receptor activation. <i>Science Signaling</i> , 2021, 14, eabc5944.	3.6	43
38	Extracellular Calcium and Parathyroid Hormone-Related Peptide Signaling Modulate the Pace of Growth Plate Chondrocyte Differentiation. <i>Endocrinology</i> , 2005, 146, 4597-4608.	2.8	38
39	Type B β^3 -Aminobutyric Acid Receptors Modulate the Function of the Extracellular Ca ²⁺ -Sensing Receptor and Cell Differentiation in Murine Growth Plate Chondrocytes. <i>Endocrinology</i> , 2007, 148, 4984-4992.	2.8	35
40	The extracellular calcium-sensing receptor, CaSR, in fetal development. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2013, 27, 443-453.	4.7	35
41	Calcium-sensing receptor stimulates Cl ⁻ and SCFA-dependent but inhibits cAMP-dependent HCO ₃ ⁻ secretion in colon. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G874-G883.	3.4	35
42	The calcium-sensing receptor suppresses epithelial-to-mesenchymal transition and stem cell-like phenotype in the colon. <i>Molecular Cancer</i> , 2015, 14, 61.	19.2	30
43	Sex and age modify biochemical and skeletal manifestations of chronic hyperparathyroidism by altering target organ responses to Ca ²⁺ and parathyroid hormone in mice. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1087-1100.	2.8	28
44	PTH hypersecretion triggered by a GABAB1 and Ca ²⁺ -sensing receptor heterocomplex in hyperparathyroidism. <i>Nature Metabolism</i> , 2020, 2, 243-255.	11.9	27
45	Hypothermia and Pharmacological Regimens that Prevent Overexpression and Overactivity of the Extracellular Calcium-Sensing Receptor Protect Neurons against Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2013, 30, 1170-1176.	3.4	26
46	Calcium Sensing Receptor Function Supports Osteoblast Survival and Acts as a Co-factor in PTH Anabolic Actions in Bone. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 1556-1567.	2.6	25
47	Prevention of Injury-Induced Osteoarthritis in Rodent Temporomandibular Joint by Targeting Chondrocyte CaSR. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 726-738.	2.8	24
48	Disrupted Bone Remodeling Leads to Cochlear Overgrowth and Hearing Loss in a Mouse Model of Fibrous Dysplasia. <i>PLoS ONE</i> , 2014, 9, e94989.	2.5	18
49	Homer1 mediates CaSR-dependent activation of mTOR complex 2 and initiates a novel pathway for AKT-dependent β^2 -catenin stabilization in osteoblasts. <i>Journal of Biological Chemistry</i> , 2019, 294, 16337-16350.	3.4	17
50	Enhanced excitability of cortical neurons in low-divalent solutions is primarily mediated by altered voltage-dependence of voltage-gated sodium channels. <i>ELife</i> , 2021, 10, .	6.0	17
51	Calcium-Sensing Receptors in Chondrocytes and Osteoblasts Are Required for Callus Maturation and Fracture Healing in Mice. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 143-154.	2.8	14
52	Parathyroid cells express dihydropyridine-sensitive cation currents and L-type calcium channel subunits. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E180-E189.	3.5	11
53	Precise druggability of the PTH type 1 receptor. <i>Nature Chemical Biology</i> , 2022, 18, 272-280.	8.0	11
54	Sprouty2 regulates endochondral bone formation by modulation of RTK and BMP signaling. <i>Bone</i> , 2016, 88, 170-179.	2.9	9

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55	Calcimimetic R568 inhibits tetrodotoxin-sensitive colonic electrolyte secretion and reduces c-fos expression in myenteric neurons. <i>Life Sciences</i> , 2018, 194, 49-58.	4.3	8
56	The mTORC2 Regulator Homer1 Modulates Protein Levels and Sub-Cellular Localization of the CaSR in Osteoblast-Lineage Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6509.	4.1	7
57	Impaired Mineral Ion Metabolism in a Mouse Model of Targeted Calcium-Sensing Receptor (CaSR) Deletion from Vascular Smooth Muscle Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2022, 33, 1323-1340.	6.1	7
58	Assessing Constitutive Activity of Extracellular Calcium-Sensing Receptors In Vitro and in Bone. <i>Methods in Enzymology</i> , 2010, 484, 253-266.	1.0	6
59	Control of PTH secretion by the TRPC1 ion channel. <i>JCI Insight</i> , 2020, 5, .	5.0	6
60	Naturally-Occurring Mutation in the Calcium-Sensing Receptor Reveals the Significance of Extracellular Domain Loop III Region for Class C G-Protein-Coupled Receptor Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, E245-E252.	3.6	5
61	Calcium-sensing receptor and CPAP-induced neonatal airway hyperreactivity in mice. <i>Pediatric Research</i> , 2022, 91, 1391-1398.	2.3	5
62	FBW7 couples structural integrity with functional output of primary cilia. <i>Communications Biology</i> , 2021, 4, 1066.	4.4	3
63	Biology of the extracellular calcium-sensing receptor. , 2020, , 539-571.		1
64	Claude D Arnaud, Jr, MD (1929â€“2016): ASBMR Loses a Founding Father. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 2067-2068.	2.8	0
65	Renal Dnase1 expression is regulated by FGF23 but loss of Dnase1 does not alter renal phosphate handling. <i>Scientific Reports</i> , 2021, 11, 6175.	3.3	0