Wenhan Chang

List of Publications by Year
in descending order

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64	3,798	101384	133063
papers	citations	36 h-index	59 g-index

66	66	66	3814
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Extracellular Calcium-Sensing Receptor (CaSR) Is a Critical Modulator of Skeletal Development. Science Signaling, 2008, 1, ra1.	1.6	232
2	The calcium-sensing receptor in physiology and in calcitropic and noncalcitropic diseases. Nature Reviews Endocrinology, 2019, 15, 33-51.	4.3	226
3	Expression and Signal Transduction of Calcium-Sensing Receptors in Cartilage and Bone1. Endocrinology, 1999, 140, 5883-5893.	1.4	204
4	Cartilage to bone transformation during fracture healing is coordinated by the invading vasculature and induction of the core pluripotency genes. Development (Cambridge), 2017, 144, 221-234.	1.2	171
5	Phosphate acts directly on the calcium-sensing receptor to stimulate parathyroid hormone secretion. Nature Communications, 2019, 10, 4693.	5.8	149
6	Calcium-sensing receptor antagonists abrogate airway hyperresponsiveness and inflammation in allergic asthma. Science Translational Medicine, 2015, 7, 284ra60.	5.8	142
7	Role of IGF-I signaling in muscle bone interactions. Bone, 2015, 80, 79-88.	1.4	122
8	Insulin-Like Growth Factor-I Is Essential for Embryonic Bone Development. Endocrinology, 2006, 147, 4753-4761.	1.4	114
9	Extracellular Ca2+-sensing receptorsâ€”an overview. Cell Calcium, 2004, 35, 183-196.	1.1	109
10	Inactivation of the Calcium Sensing Receptor Inhibits E-cadherin-mediated Cell-Cell Adhesion and Calcium-induced Differentiation in Human Epidermal Keratinocytes. Journal of Biological Chemistry, 2008, 283, 3519-3528.	1.6	109
11	IGF-1R signaling in chondrocytes modulates growth plate development by interacting with the PTHrP/Ihh pathway. Journal of Bone and Mineral Research, 2011, 26, 1437-1446.	3.1	105
12	The Calcium Sensing Receptor and Its Alternatively Spliced Form in Murine Epidermal Differentiation. Journal of Biological Chemistry, 2000, 275, 1183-1190.	1.6	101
13	Coupling of Calcium Receptors to Inositol Phosphate and Cyclic AMP Generation in Mammalian Cells and Xenopus laevis Oocytes and Immunodetection of Receptor Protein by Region-Specific Antipeptide Antisera. Journal of Bone and Mineral Research, 1998, 13, 570-580.	3.1	84
14	Osteoblast extracellular Ca2+-sensing receptor regulates bone development, mineralization, and turnover. Journal of Bone and Mineral Research, 2011, 26, 2935-2947.	3.1	83
15	Amino Acids in the Second and Third Intracellular Loops of the Parathyroid Ca2+-sensing Receptor Mediate Efficient Coupling to Phospholipase C. Journal of Biological Chemistry, 2000, 275, 19955-19963.	1.6	80
16	Calcium-sensing receptor-mediated NLRP3 inflammasome response to calciprotein particles drives inflammation in rheumatoid arthritis. Nature Communications, 2020, 11, 4243.	5.8	79
17	Glycerol-3-phosphate is an FGF23 regulator derived from the injured kidney. Journal of Clinical Investigation, 2020, 130, 1513-1526.	3.9	75
18	The Role of the Calcium Sensing Receptor in Regulating Intracellular Calcium Handling in Human Epidermal Keratinocytes. Journal of Investigative Dermatology, 2007, 127, 1074-1083.	0.3	74

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19	Complex Formation with the Type B Î³-Aminobutyric Acid Receptor Affects the Expression and Signal Transduction of the Extracellular Calcium-sensing Receptor. Journal of Biological Chemistry, 2007, 282, 25030-25040.	1.6	73
20	Ablation of the Calcium-Sensing Receptor in Keratinocytes Impairs Epidermal Differentiation and Barrier Function. Journal of Investigative Dermatology, 2012, 132, 2350-2359.	0.3	73
21	Calcium Sensing in Cultured Chondrogenic RCJ3.1C5.18 Cells*. Endocrinology, 1999, 140, 1911-1919.	1.4	68
22	Constitutive Activity of the Osteoblast Ca2+-Sensing Receptor Promotes Loss of Cancellous Bone. Endocrinology, 2007, 148, 3156-3163.	1.4	67
23	Extracellular Ca2+-Sensing Receptors Modulate Matrix Production and Mineralization in Chondrogenic RCJ3.1C5.18 Cells. Endocrinology, 2002, 143, 1467-1474.	1.4	66
24	Expression and Functional Assessment of an Alternatively Spliced Extracellular Ca2+-Sensing Receptor in Growth Plate Chondrocytes. Endocrinology, 2005, 146, 5294-5303.	1.4	66
25	Negative Cross-talk between Calcium-sensing Receptor and Î²-Catenin Signaling Systems in Colonic Epithelium. Journal of Biological Chemistry, 2012, 287, 1158-1167.	1.6	63
26	Mammary-Specific Ablation of the Calcium-Sensing Receptor During Lactation Alters Maternal Calcium Metabolism, Milk Calcium Transport, and Neonatal Calcium Accrual. Endocrinology, 2013, 154, 3031-3042.	1.4	56
27	Calcium-Sensing Receptor Promotes Breast Cancer by Stimulating Intracrine Actions of Parathyroid Hormoneâ€“Related Protein. Cancer Research, 2016, 76, 5348-5360.	0.4	56
28	Autocrine and Paracrine Actions of IGF-I Signaling in Skeletal Development. Bone Research, 2013, 1, 249-259.	5.4	52
29	Osteoblast-Specific Loss of IGF1R Signaling Results in Impaired Endochondral Bone Formation During Fracture Healing. Journal of Bone and Mineral Research, 2015, 30, 1572-1584.	3.1	48
30	Calcium-Sensing Receptor Regulates EpidermalÂIntracellular Ca2+ Signaling and Re-Epithelialization after Wounding. Journal of Investigative Dermatology, 2019, 139, 919-929.	0.3	48
31	Mild Hypothermia Suppresses Calcium-Sensing Receptor (CaSR) Induction Following Forebrain Ischemia While Increasing GABA-B Receptor 1 (GABA-B-R1) Expression. Translational Stroke Research, 2011, 2, 195-201.	2.3	47
32	Ephrin B2/EphB4 Mediates the Actions of IGF-I Signaling in Regulating Endochondral Bone Formation. Journal of Bone and Mineral Research, 2014, 29, 1900-1913.	3.1	47
33	Calciumâ€sensing receptor (CaSR) as a novel target for ischemic neuroprotection. Annals of Clinical and Translational Neurology, 2014, 1, 851-866.	1.7	46
34	Interplay between CaSR and PTH1R signaling in skeletal development and osteoanabolism. Seminars in Cell and Developmental Biology, 2016, 49, 11-23.	2.3	46
35	Amino Acids in the Cytoplasmic C Terminus of the Parathyroid Ca2+-sensing Receptor Mediate Efficient Cell-surface Expression and Phospholipase C Activation. Journal of Biological Chemistry, 2001, 276, 44129-44136.	1.6	45
36	Spatial bias in cAMP generation determines biological responses to PTH type 1 receptor activation. Science Signaling, 2021, 14, eabc5944.	1.6	43

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37	Extracellular Calcium and Parathyroid Hormone-Related Peptide Signaling Modulate the Pace of Growth Plate Chondrocyte Differentiation. Endocrinology, 2005, 146, 4597-4608.	1.4	38
38	Type B Î³-Aminobutyric Acid Receptors Modulate the Function of the Extracellular Ca2+-Sensing Receptor and Cell Differentiation in Murine Growth Plate Chondrocytes. Endocrinology, 2007, 148, 4984-4992.	1.4	35
39	The extracellular calcium-sensing receptor, CaSR, in fetal development. Best Practice and Research in Clinical Endocrinology and Metabolism, 2013, 27, 443-453.	2.2	35
40	Calcium-sensing receptor stimulates Cl^{â^'}- and SCFA-dependent but inhibits cAMP-dependent HCO₃^{â^'} secretion in colon. American Journal of Physiology - Renal Physiology, 2015, 308, G874-G883.	1.6	35
41	The calcium-sensing receptor suppresses epithelial-to-mesenchymal transition and stem cell- like phenotype in the colon. Molecular Cancer, 2015, 14, 61.	7.9	30
42	Sex and age modify biochemical and skeletal manifestations of chronic hyperparathyroidism by altering target organ responses to Ca2+ and parathyroid hormone in mice. Journal of Bone and Mineral Research, 2013, 28, 1087-1100.	3.1	28
43	PTH hypersecretion triggered by a GABAB1 and Ca2+-sensing receptor heterocomplex in hyperparathyroidism. Nature Metabolism, 2020, 2, 243-255.	5.1	27
44	Hypothermia and Pharmacological Regimens that Prevent Overexpression and Overactivity of the Extracellular Calcium-Sensing Receptor Protect Neurons against Traumatic Brain Injury. Journal of Neurotrauma, 2013, 30, 1170-1176.	1.7	26
45	Calcium Sensing Receptor Function Supports Osteoblast Survival and Acts as a Coâ€Factor in PTH Anabolic Actions in Bone. Journal of Cellular Biochemistry, 2016, 117, 1556-1567.	1.2	25
46	Prevention of Injury-Induced Osteoarthritis in Rodent Temporomandibular Joint by Targeting Chondrocyte CaSR. Journal of Bone and Mineral Research, 2019, 34, 726-738.	3.1	24
47	Disrupted Bone Remodeling Leads to Cochlear Overgrowth and Hearing Loss in a Mouse Model of Fibrous Dysplasia. PLoS ONE, 2014, 9, e94989.	1.1	18
48	Homer1 mediates CaSR-dependent activation of mTOR complex 2 and initiates a novel pathway for AKT-dependent Î²-catenin stabilization in osteoblasts. Journal of Biological Chemistry, 2019, 294, 16337-16350.	1.6	17
49	Enhanced excitability of cortical neurons in low-divalent solutions is primarily mediated by altered voltage-dependence of voltage-gated sodium channels. ELife, 2021, 10, .	2.8	17
50	Calciumâ€Sensing Receptors in Chondrocytes and Osteoblasts Are Required for Callus Maturation and Fracture Healing in Mice. Journal of Bone and Mineral Research, 2020, 35, 143-154.	3.1	14
51	Parathyroid cells express dihydropyridine-sensitive cation currents and L-type calcium channel subunits. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E180-E189.	1.8	11
52	Precise druggability of the PTH type 1 receptor. Nature Chemical Biology, 2022, 18, 272-280.	3.9	11
53	Sprouty2 regulates endochondral bone formation by modulation of RTK and BMP signaling. Bone, 2016, 88, 170-179.	1.4	9
54	Calcimimetic R568 inhibits tetrodotoxin-sensitive colonic electrolyte secretion and reduces c-fos expression in myenteric neurons. Life Sciences, 2018, 194, 49-58.	2.0	8

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55	The mTORC2 Regulator Homer1 Modulates Protein Levels and Sub-Cellular Localization of the CaSR in Osteoblast-Lineage Cells. International Journal of Molecular Sciences, 2021, 22, 6509.	1.8	7
56	Impaired Mineral Ion Metabolism in a Mouse Model of Targeted Calcium-Sensing Receptor (CaSR) Deletion from Vascular Smooth Muscle Cells. Journal of the American Society of Nephrology: JASN, 2022, 33, 1323-1340.	3.0	7
57	Assessing Constitutive Activity of Extracellular Calcium-Sensing Receptors In Vitro and in Bone. Methods in Enzymology, 2010, 484, 253-266.	0.4	6
58	Control of PTH secretion by the TRPC1 ion channel. JCI Insight, 2020, 5, .	2.3	6
59	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. Journal of Clinical Endocrinology and Metabolism, 2010, 95, E245-E252.	1.8	5
60	Calcium-sensing receptor and CPAP-induced neonatal airway hyperreactivity in mice. Pediatric Research, 2022, 91, 1391-1398.	1.1	5
61	FBW7 couples structural integrity with functional output of primary cilia. Communications Biology, 2021, 4, 1066.	2.0	3
62	Biology of the extracellular calcium-sensing receptor. , 2020, , 539-571.		1
63	Claude D Arnaud, Jr, MD (1929â€“2016): ASBMR Loses a Founding Father. Journal of Bone and Mineral Research, 2016, 31, 2067-2068.	3.1	0
64	Renal Dnase1 expression is regulated by FGF23 but loss of Dnase1 does not alter renal phosphate handling. Scientific Reports, 2021, 11, 6175.	1.6	0