Yiping Chen

List of Publications by Year in Descending Order

85 papers	3,363 citations	34 h-index	56 g-index
92 ext. papers	3,843 ext. citations	4.4 avg, IF	4.68 L-index

#	Paper	IF	Citations
85	Single-cell RNA sequencing deconvolutes the heterogeneity of human bone marrow-derived mesenchymal stem cells. *International Journal of Biological Sciences*, **2021**, 17, 4192-4206	11.2	4
84	The Transcription Factor Shox2 Shapes Neuron Firing Properties and Suppresses Seizures by Regulation of Key Ion Channels in Thalamocortical Neurons. *Cerebral Cortex*, **2021**, 31, 3194-3212	5.1	1
83	A systematic dissection of human primary osteoblasts at single-cell resolution. *Aging*, **2021**, 13, 20629-20650	5.6	2
82	The transcriptional regulator MEIS2 sets up the ground state for palatal osteogenesis in mice. *Journal of Biological Chemistry*, **2020**, 295, 5449-5460	5.4	3
81	Olig2 regulates terminal differentiation and maturation of peripheral olfactory sensory neurons. *Cellular and Molecular Life Sciences*, **2020**, 77, 3597-3609	10.3	3
80	Exogenous FGF8 signaling in osteocytes leads to mandibular hypoplasia in mice. *Oral Diseases*, **2020** , 26, 590-596	3.5	2
79	Conjugated activation of myocardial-specific transcription of Gja5 by a pair of Nkx2-5-Shox2 co-responsive elements. *Developmental Biology*, **2020**, 465, 79-87	3.1	1
78	Cellular and developmental basis of orofacial clefts. *Birth Defects Research*, **2020**, 112, 1558-1587	2.9	11
77	Regrowing a tooth: in vitro and in vivo approaches. *Current Opinion in Cell Biology*, **2019**, 61, 126-131	9	10
76	defines a subpopulation of pacemaker cells and is essential for the physiological function of the sinoatrial node in mice. *Development (Cambridge)*, **2019**, 146,	6.6	12
75	Shox2 regulates osteogenic differentiation and pattern formation during hard palate development in mice. *Journal of Biological Chemistry*, **2019**, 294, 18294-18305	5.4	7
74	Opposing roles of TCF7/LEF1 and TCF7L2 in cyclin D2 and Bmp4 expression and cardiomyocyte cell cycle control during late heart development. *Laboratory Investigation*, **2019**, 99, 807-818	5.9	9
73	Conditional deletion of Bmp2 in cranial neural crest cells recapitulates Pierre Robin sequence in mice. *Cell and Tissue Research*, **2019**, 376, 199-210	4.2	15
72	TGF-□signaling inhibits canonical BMP signaling pathway during palate development. *Cell and Tissue Research*, **2018**, 371, 283-291	4.2	16
71	Efficient induction of functional ameloblasts from human keratinocyte stem cells. *Stem Cell Research and Therapy*, **2018**, 9, 126	8.3	9
70	ISLET1-Dependent □Catenin/Hedgehog Signaling Is Required for Outgrowth of the Lower Jaw. *Molecular and Cellular Biology*, **2017**, 37,	4.8	12
69	A unique stylopod patterning mechanism by Shox2-controlled osteogenesis. *Development (Cambridge)*, **2016**, 143, 2548-60	6.6	10

68	LDL Receptor-Related Protein 6 Modulates Ret Proto-Oncogene Signaling in Renal Development and Cystic Dysplasia. *Journal of the American Society of Nephrology: JASN*, **2016**, 27, 417-27	12.7	8
67	Augmented Indian hedgehog signaling in cranial neural crest cells leads to craniofacial abnormalities and dysplastic temporomandibular joint in mice. *Cell and Tissue Research*, **2016**, 364, 105-15	4.2	6
66	Identification and analysis of a novel bmp4 enhancer in Fugu genome. *Archives of Oral Biology*, **2015**, 60, 540-5	2.8	1
65	FGF8 signaling sustains progenitor status and multipotency of cranial neural crest-derived mesenchymal cells in vivo and in vitro. *Journal of Molecular Cell Biology*, **2015**, 7, 441-54	6.3	22
64	A common Shox2-Nkx2-5 antagonistic mechanism primes the pacemaker cell fate in the pulmonary vein myocardium and sinoatrial node. *Development (Cambridge)*, **2015**, 142, 2521-32	6.6	63
63	Persistent Noggin arrests cardiomyocyte morphogenesis and results in early in utero lethality. *Developmental Dynamics*, **2015**, 244, 457-67	2.9	4
62	The non-canonical BMP and Wnt/βcatenin signaling pathways orchestrate early tooth development. *Development (Cambridge)*, **2015**, 142, 128-39	6.6	42
61	Genetic Regulation of Sinoatrial Node Development and Pacemaker Program in the Venous Pole. *Journal of Cardiovascular Development and Disease*, **2015**, 2, 282-298	4.2	18
60	Altered FGF Signaling Pathways Impair Cell Proliferation and Elevation of Palate Shelves. *PLoS ONE*, **2015**, 10, e0136951	3.7	17
59	Reply to Kelder et al.: Does the dorsal mesenchymal protrusion act as a temporary pacemaker during heart development?. *Journal of Biological Chemistry*, **2015**, 290, 8015	5.4	
58	The short stature homeobox 2 (Shox2)-bone morphogenetic protein (BMP) pathway regulates dorsal mesenchymal protrusion development and its temporary function as a pacemaker during cardiogenesis. *Journal of Biological Chemistry*, **2015**, 290, 2007-23	5.4	21
57	Replacing Shox2 with human SHOX leads to congenital disc degeneration of the temporomandibular joint in mice. *Cell and Tissue Research*, **2014**, 355, 345-54	4.2	15
56	Precise chronology of differentiation of developing human primary dentition. *Histochemistry and Cell Biology*, **2014**, 141, 221-7	2.4	9
55	Bioengineering of a human whole tooth: progress and challenge. *Cell Regeneration*, **2014**, 3, 8	2.5	10
54	Pitx2-microRNA pathway that delimits sinoatrial node development and inhibits predisposition to atrial fibrillation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9181-6	11.5	84
53	Pten loss induces autocrine FGF signaling to promote skin tumorigenesis. *Cell Reports*, **2014**, 6, 818-26	10.6	36
52	BMPRIA mediated signaling is essential for temporomandibular joint development in mice. *PLoS ONE*, **2014**, 9, e101000	3.7	26
51	Expression patterns of genes critical for BMP signaling pathway in developing human primary tooth germs. *Histochemistry and Cell Biology*, **2014**, 142, 657-65	2.4	12

50	An atypical canonical bone morphogenetic protein (BMP) signaling pathway regulates Msh homeobox 1 (Msx1) expression during odontogenesis. *Journal of Biological Chemistry*, **2014**, 289, 31492-502	5.4	23
49	BMP-FGF signaling axis mediates Wnt-induced epidermal stratification in developing mammalian skin. *PLoS Genetics*, **2014**, 10, e1004687	6	51
48	Phosphorylation of Shox2 is required for its function to control sinoatrial node formation. *Journal of the American Heart Association*, **2014**, 3, e000796	6	7
47	Directed Bmp4 expression in neural crest cells generates a genetic model for the rare human bony syngnathia birth defect. *Developmental Biology*, **2014**, 391, 170-81	3.1	25
46	Expression of SHH signaling molecules in the developing human primary dentition. *BMC Developmental Biology*, **2013**, 13, 11	3.1	22
45	Exploring the effects of gene dosage on mandible shape in mice as a model for studying the genetic basis of natural variation. *Development Genes and Evolution*, **2013**, 223, 279-87	1.8	30
44	Enhanced BMP signaling prevents degeneration and leads to endochondral ossification of Meckel's cartilage in mice. *Developmental Biology*, **2013**, 381, 301-11	3.1	35
43	Temporomandibular Joint Development **2013**, 71-85		5
42	Mice with Tak1 deficiency in neural crest lineage exhibit cleft palate associated with abnormal tongue development. *Journal of Biological Chemistry*, **2013**, 288, 10440-50	5.4	41
41	FGF signaling sustains the odontogenic fate of dental mesenchyme by suppressing β-catenin signaling. *Development (Cambridge)*, **2013**, 140, 4375-85	6.6	28
40	Generation of Shox2-Cre allele for tissue specific manipulation of genes in the developing heart, palate, and limb. *Genesis*, **2013**, 51, 515-22	1.9	27
39	Intra-epithelial requirement of canonical Wnt signaling for tooth morphogenesis. *Journal of Biological Chemistry*, **2013**, 288, 12080-9	5.4	37
38	Augmented BMPRIA-mediated BMP signaling in cranial neural crest lineage leads to cleft palate formation and delayed tooth differentiation. *PLoS ONE*, **2013**, 8, e66107	3.7	27
37	The role of Shox2 in SAN development and function. *Pediatric Cardiology*, **2012**, 33, 882-9	2.1	23
36	BmprIa is required in mesenchymal tissue and has limited redundant function with BmprIb in tooth and palate development. *Developmental Biology*, **2011**, 349, 451-61	3.1	58
35	Epithelial Wnt/β-catenin signaling regulates palatal shelf fusion through regulation of Tgfβ3 expression. *Developmental Biology*, **2011**, 350, 511-9	3.1	66
34	Ectopic expression of Nkx2.5 suppresses the formation of the sinoatrial node in mice. *Developmental Biology*, **2011**, 356, 359-69	3.1	55
33	Wnt5a regulates growth, patterning, and odontoblast differentiation of developing mouse tooth. *Developmental Dynamics*, **2011**, 240, 432-40	2.9	64

32	Exogenous fibroblast growth factor 8 rescues development of mouse diastemal vestigial tooth ex vivo. *Developmental Dynamics*, **2011**, 240, 1344-53	2.9	11
31	Tissue interaction is required for glenoid fossa development during temporomandibular joint formation. *Developmental Dynamics*, **2011**, 240, 2466-73	2.9	35
30	Functional redundancy between human SHOX and mouse Shox2 genes in the regulation of sinoatrial node formation and pacemaking function. *Journal of Biological Chemistry*, **2011**, 286, 17029-38	5.4	37
29	Genetic interactions between Pax9 and Msx1 regulate lip development and several stages of tooth morphogenesis. *Developmental Biology*, **2010**, 340, 438-49	3.1	104
28	Induction of human keratinocytes into enamel-secreting ameloblasts. *Developmental Biology*, **2010**, 344, 795-9	3.1	38
27	Modulation of BMP signaling by Noggin is required for the maintenance of palatal epithelial integrity during palatogenesis. *Developmental Biology*, **2010**, 347, 109-21	3.1	80
26	Overexpression of constitutively active BMP-receptor-IB in mouse skin causes an ichthyosis-vulgaris-like disease. *Cell and Tissue Research*, **2010**, 342, 401-10	4.2	7
25	Gsk3β is required in the epithelium for palatal elevation in mice. *Developmental Dynamics*, **2010**, 239, 3235-46	2.9	30
24	Shox2 is essential for the differentiation of cardiac pacemaker cells by repressing Nkx2-5. *Developmental Biology*, **2009**, 327, 376-85	3.1	166
23	Hand2 is required in the epithelium for palatogenesis in mice. *Developmental Biology*, **2009**, 330, 131-41	3.1	59
22	Wnt5a regulates directional cell migration and cell proliferation via Ror2-mediated noncanonical pathway in mammalian palatogenesis. *FASEB Journal*, **2009**, 23, 308.4	0.9	
21	Shox2-deficiency leads to dysplasia and ankylosis of the temporomandibular joint in mice. *Mechanisms of Development*, **2008**, 125, 729-42	1.7	54
20	Wnt5a regulates directional cell migration and cell proliferation via Ror2-mediated noncanonical pathway in mammalian palate development. *Development (Cambridge)*, **2008**, 135, 3871-9	6.6	167
19	Mouse embryonic diastema region is an ideal site for the development of ectopically transplanted tooth germ. *Developmental Dynamics*, **2008**, 237, 411-6	2.9	10
18	Mice with an anterior cleft of the palate survive neonatal lethality. *Developmental Dynamics*, **2008**, 237, 1509-16	2.9	24
17	Expression survey of genes critical for tooth development in the human embryonic tooth germ. *Developmental Dynamics*, **2007**, 236, 1307-12	2.9	46
16	Shox2 is required for chondrocyte proliferation and maturation in proximal limb skeleton. *Developmental Biology*, **2007**, 306, 549-59	3.1	59
15	Application of lentivirus-mediated RNAi in studying gene function in mammalian tooth development. *Developmental Dynamics*, **2006**, 235, 1334-44	2.9	45

14	The cellular and molecular etiology of the cleft secondary palate in Fgf10 mutant mice. *Developmental Biology*, **2005**, 277, 102-13	3.1	107
13	Shox2-deficient mice exhibit a rare type of incomplete clefting of the secondary palate. *Development (Cambridge)*, **2005**, 132, 4397-406	6.6	116
12	Chick Pcl2 regulates the left-right asymmetry by repressing Shh expression in HensenS node. *Development (Cambridge)*, **2004**, 131, 4381-91	6.6	30
11	Timing of odontogenic neural crest cell migration and tooth-forming capability in mice. *Developmental Dynamics*, **2003**, 226, 713-8	2.9	34
10	Msx1/Bmp4 genetic pathway regulates mammalian alveolar bone formation via induction of Dlx5 and Cbfa1. *Mechanisms of Development*, **2003**, 120, 1469-79	1.7	48
9	Rescue of cleft palate inMsx1-deficient mice by transgenicBmp4reveals a network of BMP and Shh signaling in the regulation of mammalian palatogenesis. *Development (Cambridge)*, **2002**, 129, 4135-4146	6.6	269
8	Rescue of cleft palate in Msx1-deficient mice by transgenic Bmp4 reveals a network of BMP and Shh signaling in the regulation of mammalian palatogenesis. *Development (Cambridge)*, **2002**, 129, 4135-46	6.6	170
7	Evidence for the differential regulation of Nkx-6.1 expression in the ventral spinal cord and foregut by Shh-dependent and -independent mechanisms. *Genesis*, **2000**, 27, 6-11	1.9	18
6	Antagonistic signals between BMP4 and FGF8 define the expression of Pitx1 and Pitx2 in mouse tooth-forming anlage. *Developmental Biology*, **2000**, 217, 323-32	3.1	164
5	Targeted misexpression of constitutively active BMP receptor-IB causes bifurcation, duplication, and posterior transformation of digit in mouse limb. *Developmental Biology*, **2000**, 220, 154-67	3.1	44
4	Transgenically ectopic expression of Bmp4 to the Msx1 mutant dental mesenchyme restores downstream gene expression but represses Shh and Bmp2 in the enamel knot of wild type tooth germ. *Mechanisms of Development*, **2000**, 99, 29-38	1.7	79
3	Msx1 is required for the induction of Patched by Sonic hedgehog in the mammalian tooth germ. *Developmental Dynamics*, **1999**, 215, 45-53	2.9	74
2	Expression and regulation of the chicken Nkx-6.2 homeobox gene suggest its possible involvement in the ventral neural patterning and cell fate specification. *Developmental Dynamics*, **1999**, 216, 459-68	2.9	15
1	Shaping limbs by apoptosis>. *The Journal of Experimental Zoology*, **1998**, 282, 691-702		76