

# Yiping Chen

## List of Publications by Year in descending order

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87  
papers

4,203  
citations

101384

36  
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123241

61  
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92  
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92  
docs citations

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times ranked

4011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rescue of cleft palate in <i>Msx1</i> -deficient mice by transgenic <i>Bmp4</i> reveals a network of BMP and Shh signaling in the regulation of mammalian palatogenesis. <i>Development</i> (Cambridge), 2002, 129, 4135-4146.	1.2	332
2	<i>Shox2</i> is essential for the differentiation of cardiac pacemaker cells by repressing <i>Nkx2-5</i> . <i>Developmental Biology</i> , 2009, 327, 376-385.	0.9	209
3	<i>Wnt5a</i> regulates directional cell migration and cell proliferation via <i>Ror2</i> -mediated noncanonical pathway in mammalian palate development. <i>Development</i> (Cambridge), 2008, 135, 3871-3879.	1.2	200
4	Antagonistic Signals between BMP4 and FGF8 Define the Expression of Pitx1 and Pitx2 in Mouse Tooth-Forming Anlage. <i>Developmental Biology</i> , 2000, 217, 323-332.	0.9	183
5	Rescue of cleft palate in <i>Msx1</i> -deficient mice by transgenic <i>Bmp4</i> reveals a network of BMP and Shh signaling in the regulation of mammalian palatogenesis. <i>Development</i> (Cambridge), 2002, 129, 4135-46.	1.2	175
6	<i>Shox2</i> -deficient mice exhibit a rare type of incomplete clefting of the secondary palate. <i>Development</i> (Cambridge), 2005, 132, 4397-4406.	1.2	133
7	Genetic interactions between <i>Pax9</i> and <i>Msx1</i> regulate lip development and several stages of tooth morphogenesis. <i>Developmental Biology</i> , 2010, 340, 438-449.	0.9	125
8	The cellular and molecular etiology of the cleft secondary palate in <i>Fgf10</i> mutant mice. <i>Developmental Biology</i> , 2005, 277, 102-113.	0.9	117
9	<i>Pitx2</i> -microRNA pathway that delimits sinoatrial node development and inhibits predisposition to atrial fibrillation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9181-9186.	3.3	109
10	A common <i>Shox2</i> - <i>Nkx2-5</i> antagonistic mechanism primes the pacemaking cell fate in the pulmonary vein myocardium and sinoatrial node. <i>Development</i> (Cambridge), 2015, 142, 2521-32.	1.2	105
11	Modulation of BMP signaling by <i>Noggin</i> is required for the maintenance of palatal epithelial integrity during palatogenesis. <i>Developmental Biology</i> , 2010, 347, 109-121.	0.9	93
12	Transgenically ectopic expression of <i>Bmp4</i> to the <i>Msx1</i> mutant dental mesenchyme restores downstream gene expression but represses <i>Shh</i> and <i>Bmp2</i> in the enamel knot of wild type tooth germ. <i>Mechanisms of Development</i> , 2000, 99, 29-38.	1.7	87
13	Epithelial <i>Wnt/β2</i> -catenin signaling regulates palatal shelf fusion through regulation of <i>Tgfr3</i> expression. <i>Developmental Biology</i> , 2011, 350, 511-519.	0.9	83
14	Shaping limbs by apoptosis. <i>The Journal of Experimental Zoology</i> , 1998, 282, 691-702.	1.4	81
15	<i>Wnt5a</i> regulates growth, patterning, and odontoblast differentiation of developing mouse tooth. <i>Developmental Dynamics</i> , 2011, 240, 432-440.	0.8	78
16	<i>Msx1</i> is required for the induction of <i>Patched</i> by <i>Sonic hedgehog</i> in the mammalian tooth germ. <i>Developmental Dynamics</i> , 1999, 215, 45-53.	0.8	76
17	<i>Shox2</i> is required for chondrocyte proliferation and maturation in proximal limb skeleton. <i>Developmental Biology</i> , 2007, 306, 549-559.	0.9	73
18	<i>Hand2</i> is required in the epithelium for palatogenesis in mice. <i>Developmental Biology</i> , 2009, 330, 131-141.	0.9	68

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19	Bmpr1a is required in mesenchymal tissue and has limited redundant function with Bmpr1b in tooth and palate development. <i>Developmental Biology</i> , 2011, 349, 451-461.	0.9	68
20	Ectopic expression of Nkx2.5 suppresses the formation of the sinoatrial node in mice. <i>Developmental Biology</i> , 2011, 356, 359-369.	0.9	66
21	BMP-FGF Signaling Axis Mediates Wnt-Induced Epidermal Stratification in Developing Mammalian Skin. <i>PLoS Genetics</i> , 2014, 10, e1004687.	1.5	66
22	Shox2-deficiency leads to dysplasia and ankylosis of the temporomandibular joint in mice. <i>Mechanisms of Development</i> , 2008, 125, 729-742.	1.7	61
23	The non-canonical BMP and Wnt/ $\beta$ -catenin signaling pathways orchestrate early tooth development. <i>Development (Cambridge)</i> , 2015, 142, 128-139.	1.2	60
24	Msx1/Bmp4 genetic pathway regulates mammalian alveolar bone formation via induction of Dlx5 and Cbfa1. <i>Mechanisms of Development</i> , 2003, 120, 1469-1479.	1.7	53
25	Expression survey of genes critical for tooth development in the human embryonic tooth germ. <i>Developmental Dynamics</i> , 2007, 236, 1307-1312.	0.8	53
26	Application of lentivirus-mediated RNAi in studying gene function in mammalian tooth development. <i>Developmental Dynamics</i> , 2006, 235, 1347-1357.	0.8	52
27	Mice with Tak1 Deficiency in Neural Crest Lineage Exhibit Cleft Palate Associated with Abnormal Tongue Development. <i>Journal of Biological Chemistry</i> , 2013, 288, 10440-10450.	1.6	50
28	Induction of human keratinocytes into enamel-secreting ameloblasts. <i>Developmental Biology</i> , 2010, 344, 795-799.	0.9	48
29	Intra-epithelial Requirement of Canonical Wnt Signaling for Tooth Morphogenesis. <i>Journal of Biological Chemistry</i> , 2013, 288, 12080-12089.	1.6	48
30	Targeted Misexpression of Constitutively Active BMP Receptor-IB Causes Bifurcation, Duplication, and Posterior Transformation of Digit in Mouse Limb. <i>Developmental Biology</i> , 2000, 220, 154-167.	0.9	45
31	Functional Redundancy between Human SHOX and Mouse Shox2 Genes in the Regulation of Sinoatrial Node Formation and Pacemaking Function. <i>Journal of Biological Chemistry</i> , 2011, 286, 17029-17038.	1.6	44
32	Pten Loss Induces Autocrine FGF Signaling to Promote Skin Tumorigenesis. <i>Cell Reports</i> , 2014, 6, 818-826.	2.9	44
33	Enhanced BMP signaling prevents degeneration and leads to endochondral ossification of Meckel's cartilage in mice. <i>Developmental Biology</i> , 2013, 381, 301-311.	0.9	43
34	Timing of odontogenic neural crest cell migration and tooth-forming capability in mice. <i>Developmental Dynamics</i> , 2003, 226, 713-718.	0.8	41
35	Tissue interaction is required for glenoid fossa development during temporomandibular joint formation. <i>Developmental Dynamics</i> , 2011, 240, 2466-2473.	0.8	40
36	Cellular and developmental basis of orofacial clefts. <i>Birth Defects Research</i> , 2020, 112, 1558-1587.	0.8	40

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37	Directed Bmp4 expression in neural crest cells generates a genetic model for the rare human bony syngnathia birth defect. <i>Developmental Biology</i> , 2014, 391, 170-181.	0.9	39
38	Single-cell RNA sequencing deconvolutes the <i>in vivo</i> heterogeneity of human bone marrow-derived mesenchymal stem cells. <i>International Journal of Biological Sciences</i> , 2021, 17, 4192-4206.	2.6	39
39	<i>Gsk3<sup>Î²</sup></i> is required in the epithelium for palatal elevation in mice. <i>Developmental Dynamics</i> , 2010, 239, 3235-3246.	0.8	36
40	Generation of <i>Shox2<sup>Cre</sup></i> allele for tissue specific manipulation of genes in the developing heart, palate, and limb. <i>Genesis</i> , 2013, 51, 515-522.	0.8	36
41	Exploring the effects of gene dosage on mandible shape in mice as a model for studying the genetic basis of natural variation. <i>Development Genes and Evolution</i> , 2013, 223, 279-287.	0.4	34
42	FGF signaling sustains the odontogenic fate of dental mesenchyme by suppressing $\beta$ -catenin signaling. <i>Development (Cambridge)</i> , 2013, 140, 4375-4385.	1.2	34
43	Augmented BMPRIA-Mediated BMP Signaling in Cranial Neural Crest Lineage Leads to Cleft Palate Formation and Delayed Tooth Differentiation. <i>PLoS ONE</i> , 2013, 8, e66107.	1.1	34
44	BMPRIA Mediated Signaling Is Essential for Temporomandibular Joint Development in Mice. <i>PLoS ONE</i> , 2014, 9, e101000.	1.1	33
45	Chick Pcl2 regulates the left-right asymmetry by repressing Shh expression in Hensen's node. <i>Development (Cambridge)</i> , 2004, 131, 4381-4391.	1.2	32
46	The Role of Shox2 in SAN Development and Function. <i>Pediatric Cardiology</i> , 2012, 33, 882-889.	0.6	32
47	Conditional deletion of Bmp2 in cranial neural crest cells recapitulates Pierre Robin sequence in mice. <i>Cell and Tissue Research</i> , 2019, 376, 199-210.	1.5	30
48	Expression of SHH signaling molecules in the developing human primary dentition. <i>BMC Developmental Biology</i> , 2013, 13, 11.	2.1	28
49	An Atypical Canonical Bone Morphogenetic Protein (BMP) Signaling Pathway Regulates Msh Homeobox 1 (Msx1) Expression during Odontogenesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 31492-31502.	1.6	28
50	FGF8 signaling sustains progenitor status and multipotency of cranial neural crest-derived mesenchymal cells <i>in vivo</i> and <i>in vitro</i> . <i>Journal of Molecular Cell Biology</i> , 2015, 7, 441-454.	1.5	28
51	Genetic Regulation of Sinoatrial Node Development and Pacemaker Program in the Venous Pole. <i>Journal of Cardiovascular Development and Disease</i> , 2015, 2, 282-298.	0.8	26
52	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. <i>Journal of Biological Chemistry</i> , 2015, 290, 2007-2023.	1.6	26
53	TGF- $\beta$ signaling inhibits canonical BMP signaling pathway during palate development. <i>Cell and Tissue Research</i> , 2018, 371, 283-291.	1.5	26
54	Mice with an anterior cleft of the palate survive neonatal lethality. <i>Developmental Dynamics</i> , 2008, 237, 1509-1516.	0.8	25

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55	<i>Nkx2-5</i> defines a subpopulation of pacemaker cells and is essential for the physiological function of the sinoatrial node in mice. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	23
56	Opposing roles of TCF7/LEF1 and TCF7L2 in cyclin D2 and Bmp4 expression and cardiomyocyte cell cycle control during late heart development. <i>Laboratory Investigation</i> , 2019, 99, 807-818.	1.7	20
57	Expression and regulation of the chicken <i>Nkx-6.2</i> homeobox gene suggest its possible involvement in the ventral neural patterning and cell fate specification. , 1999, 216, 459-468.		19
58	Evidence for the differential regulation of <i>Nkx-6.1</i> expression in the ventral spinal cord and foregut by Shh-dependent and -independent mechanisms. <i>Genesis</i> , 2000, 27, 6-11.	0.8	19
59	Altered FGF Signaling Pathways Impair Cell Proliferation and Elevation of Palate Shelves. <i>PLoS ONE</i> , 2015, 10, e0136951.	1.1	19
60	ISLET1-Dependent $\beta$ -Catenin/Hedgehog Signaling Is Required for Outgrowth of the Lower Jaw. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	19
61	A systematic dissection of human primary osteoblasts in vivo at single-cell resolution. <i>Aging</i> , 2021, 13, 20629-20650.	1.4	19
62	Expression patterns of genes critical for BMP signaling pathway in developing human primary tooth germs. <i>Histochemistry and Cell Biology</i> , 2014, 142, 657-665.	0.8	18
63	Replacing <i>Shox2</i> with human <i>SHOX</i> leads to congenital disc degeneration of the temporomandibular joint in mice. <i>Cell and Tissue Research</i> , 2014, 355, 345-354.	1.5	17
64	<i>Shox2</i> regulates osteogenic differentiation and pattern formation during hard palate development in mice. <i>Journal of Biological Chemistry</i> , 2019, 294, 18294-18305.	1.6	17
65	Phosphorylation of <i>Shox2</i> Is Required for Its Function to Control Sinoatrial Node Formation. <i>Journal of the American Heart Association</i> , 2014, 3, e000796.	1.6	16
66	Efficient induction of functional ameloblasts from human keratinocyte stem cells. <i>Stem Cell Research and Therapy</i> , 2018, 9, 126.	2.4	16
67	Bioengineering of a human whole tooth: progress and challenge. <i>Cell Regeneration</i> , 2014, 3, 3:8.	1.1	15
68	A unique stylopod patterning mechanism by <i>Shox2</i> controlled osteogenesis. <i>Development (Cambridge)</i> , 2016, 143, 2548-60.	1.2	15
69	The transcriptional regulator <i>MEIS2</i> sets up the ground state for palatal osteogenesis in mice. <i>Journal of Biological Chemistry</i> , 2020, 295, 5449-5460.	1.6	15
70	Regrowing a tooth: in vitro and in vivo approaches. <i>Current Opinion in Cell Biology</i> , 2019, 61, 126-131.	2.6	14
71	Exogenous fibroblast growth factor 8 rescues development of mouse diastemal vestigial tooth ex vivo. <i>Developmental Dynamics</i> , 2011, 240, 1344-1353.	0.8	13
72	Precise chronology of differentiation of developing human primary dentition. <i>Histochemistry and Cell Biology</i> , 2014, 141, 221-227.	0.8	12

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73	LDL Receptor-Related Protein 6 Modulates Ret Proto-Oncogene Signaling in Renal Development and Cystic Dysplasia. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 417-427.	3.0	12
74	Mouse embryonic diastema region is an ideal site for the development of ectopically transplanted tooth germ. <i>Developmental Dynamics</i> , 2008, 237, 411-416.	0.8	10
75	Overexpression of constitutively active BMP-receptor-IB in mouse skin causes an ichthyosis-vulgaris-like disease. <i>Cell and Tissue Research</i> , 2010, 342, 401-410.	1.5	10
76	Olig2 regulates terminal differentiation and maturation of peripheral olfactory sensory neurons. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3597-3609.	2.4	8
77	Augmented Indian hedgehog signaling in cranial neural crest cells leads to craniofacial abnormalities and dysplastic temporomandibular joint in mice. <i>Cell and Tissue Research</i> , 2016, 364, 105-115.	1.5	7
78	Single-cell transcriptomic signatures and gene regulatory networks modulated by Wls in mammalian midline facial formation and clefts. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	6
79	Persistent Noggin arrests cardiomyocyte morphogenesis and results in early in utero lethality. <i>Developmental Dynamics</i> , 2015, 244, 457-467.	0.8	5
80	Discovery and functional assessment of a novel adipocyte population driven by intracellular Wnt/ $\beta$ -catenin signaling in mammals. <i>ELife</i> , 2022, 11, .	2.8	5
81	Exogenous FGF8 signaling in osteocytes leads to mandibular hypoplasia in mice. <i>Oral Diseases</i> , 2020, 26, 590-596.	1.5	4
82	FGF8-mediated signaling regulates tooth developmental pace during odontogenesis. <i>Journal of Genetics and Genomics</i> , 2022, 49, 40-53.	1.7	4
83	Identification and analysis of a novel bmp4 enhancer in Fugu genome. <i>Archives of Oral Biology</i> , 2015, 60, 540-545.	0.8	2
84	Conjugated activation of myocardial-specific transcription of Cja5 by a pair of Nkx2-5-Shox2 co-responsive elements. <i>Developmental Biology</i> , 2020, 465, 79-87.	0.9	2
85	The Transcription Factor Shox2 Shapes Neuron Firing Properties and Suppresses Seizures by Regulation of Key Ion Channels in Thalamocortical Neurons. <i>Cerebral Cortex</i> , 2021, 31, 3194-3212.	1.6	2
86	Reply to Kelder et al.: Does the Dorsal Mesenchymal Protrusion Act as a Temporary Pacemaker during Heart Development?. <i>Journal of Biological Chemistry</i> , 2015, 290, 8015.	1.6	0
87	Wnt5a regulates directional cell migration and cell proliferation via Ror-mediated noncanonical pathway in mammalian palatogenesis. <i>FASEB Journal</i> , 2009, 23, 308.4.	0.2	0