

# Chi-Chung Hui

## List of Publications by Year in descending order

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116  
papers

18,445  
citations

22153

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docs citations

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times ranked

25690  
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#	ARTICLE	IF	CITATIONS
1	Angiotensin-converting enzyme 2 protects from severe acute lung failure. <i>Nature</i> , 2005, 436, 112-116.	27.8	2,264
2	<i>FTO</i> Obesity Variant Circuitry and Adipocyte Browning in Humans. <i>New England Journal of Medicine</i> , 2015, 373, 895-907.	27.0	1,105
3	Obesity-associated variants within <i>FTO</i> form long-range functional connections with <i>IRX3</i> . <i>Nature</i> , 2014, 507, 371-375.	27.8	1,079
4	Hedgehog Signaling in Development and Cancer. <i>Developmental Cell</i> , 2008, 15, 801-812.	7.0	986
5	Notch1 functions as a tumor suppressor in mouse skin. <i>Nature Genetics</i> , 2003, 33, 416-421.	21.4	902
6	Mutations in <i>SUFU</i> predispose to medulloblastoma. <i>Nature Genetics</i> , 2002, 31, 306-310.	21.4	722
7	A dermal niche for multipotent adult skin-derived precursor cells. <i>Nature Cell Biology</i> , 2004, 6, 1082-1093.	10.3	692
8	A mouse model of Greig cephaloœ“polysyndactyly syndrome: the extraœ“toes mutation contains an intragenic deletion of the <i>Gli3</i> gene. <i>Nature Genetics</i> , 1993, 3, 241-246.	21.4	669
9	<i>Gli</i> Proteins in Development and Disease. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 513-537.	9.4	603
10	Essential function of <i>Gli2</i> and <i>Gli3</i> in the formation of lung, trachea and oesophagus. <i>Nature Genetics</i> , 1998, 20, 54-57.	21.4	525
11	Expression of Three Mouse Homologs of the <i>Drosophila</i> Segment Polarity Gene <i>cubitus interruptus</i> , <i>Gli</i> , <i>Gli-2</i> , and <i>Gli-3</i> , in Ectoderm- and Mesoderm-Derived Tissues Suggests Multiple Roles during Postimplantation Development. <i>Developmental Biology</i> , 1994, 162, 402-413.	2.0	439
12	<i>Sox9</i> Is Essential for Outer Root Sheath Differentiation and the Formation of the Hair Stem Cell Compartment. <i>Current Biology</i> , 2005, 15, 1340-1351.	3.9	366
13	Basal cell carcinomas in mice overexpressing <i>Gli2</i> in skin. <i>Nature Genetics</i> , 2000, 24, 216-217.	21.4	365
14	<i>Drosophila</i> Genome-wide Obesity Screen Reveals Hedgehog as a Determinant of Brown versus White Adipose Cell Fate. <i>Cell</i> , 2010, 140, 148-160.	28.9	336
15	Cilium-independent regulation of <i>Gli</i> protein function by <i>Sufu</i> in Hedgehog signaling is evolutionarily conserved. <i>Genes and Development</i> , 2009, 23, 1910-1928.	5.9	302
16	Sonic hedgehog-dependent activation of <i>Gli2</i> is essential for embryonic hair follicle development. <i>Genes and Development</i> , 2003, 17, 282-294.	5.9	284
17	A Feedforward Mechanism Mediated by Mechanosensitive Ion Channel <i>PIEZO1</i> and Tissue Mechanics Promotes Glioma Aggression. <i>Neuron</i> , 2018, 100, 799-815.e7.	8.1	241
18	The Homeodomain Transcription Factor <i>Ir5</i> Establishes the Mouse Cardiac Ventricular Repolarization Gradient. <i>Cell</i> , 2005, 123, 347-358.	28.9	233

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19	Fibroblast growth factor signals regulate a wave of Hedgehog activation that is essential for coronary vascular development. <i>Genes and Development</i> , 2006, 20, 1651-1666.	5.9	214
20	Anorectal Malformations Caused by Defects in Sonic Hedgehog Signaling. <i>American Journal of Pathology</i> , 2001, 159, 765-774.	3.8	211
21	Essential Role of Fkbp6 in Male Fertility and Homologous Chromosome Pairing in Meiosis. <i>Science</i> , 2003, 300, 1291-1295.	12.6	200
22	Ptch2, a second mouse Patched gene is co-expressed with Sonic hedgehog. <i>Nature Genetics</i> , 1998, 18, 104-106.	21.4	195
23	The Kinesin Protein Kif7 Is a Critical Regulator of Gli Transcription Factors in Mammalian Hedgehog Signaling. <i>Science Signaling</i> , 2009, 2, ra29.	3.6	188
24	Disruption at the <i>PTCHD1</i> Locus on Xp22.11 in Autism Spectrum Disorder and Intellectual Disability. <i>Science Translational Medicine</i> , 2010, 2, 49ra68.	12.4	178
25	Multipotent CD15+ Cancer Stem Cells in <i>Patched-1</i> Deficient Mouse Medulloblastoma. <i>Cancer Research</i> , 2009, 69, 4682-4690.	0.9	166
26	Gli3-dependent transcriptional repression of <i>Gli1</i> , <i>Gli2</i> and kidney patterning genes disrupts renal morphogenesis. <i>Development (Cambridge)</i> , 2006, 133, 569-578.	2.5	163
27	Cooperative and antagonistic interactions between <i>Sall4</i> and <i>Tbx5</i> pattern the mouse limb and heart. <i>Nature Genetics</i> , 2006, 38, 175-183.	21.4	156
28	Fringe boundaries coincide with Notch-dependent patterning centres in mammals and alter Notch-dependent development in <i>Drosophila</i> . <i>Nature Genetics</i> , 1997, 16, 283-288.	21.4	150
29	Intermittent fasting promotes adipose thermogenesis and metabolic homeostasis via VEGF-mediated alternative activation of macrophage. <i>Cell Research</i> , 2017, 27, 1309-1326.	12.0	148
30	Rh Type B Glycoprotein Is a New Member of the Rh Superfamily and a Putative Ammonia Transporter in Mammals. <i>Journal of Biological Chemistry</i> , 2001, 276, 1424-1433.	3.4	142
31	Negative regulation of <i>Gli1</i> and <i>Gli2</i> activator function by <i>Suppressor of fused</i> through multiple mechanisms. <i>Differentiation</i> , 2005, 73, 397-405.	1.9	136
32	Characterization of Human RhCG and Mouse Rhcg as Novel Nonerythroid Rh Glycoprotein Homologues Predominantly Expressed in Kidney and Testis. <i>Journal of Biological Chemistry</i> , 2000, 275, 25641-25651.	3.4	134
33	<i>Gli2</i> and <i>Gli3</i> have redundant and context-dependent function in skeletal muscle formation. <i>Development (Cambridge)</i> , 2005, 132, 345-357.	2.5	134
34	Interplays of <i>Gli2</i> and <i>Gli3</i> and their requirement in mediating Shh-dependent sclerotome induction. <i>Development (Cambridge)</i> , 2003, 130, 6233-6243.	2.5	133
35	Hedgehog signaling and congenital malformations. <i>Clinical Genetics</i> , 2004, 67, 193-208.	2.0	131
36	Murine models of VACTERL syndrome: Role of sonic hedgehog signaling pathway. <i>Journal of Pediatric Surgery</i> , 2001, 36, 381-384.	1.6	122

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37	Differential activities of Sonic hedgehog mediated by Gli transcription factors define distinct neuronal subtypes in the dorsal thalamus. <i>Mechanisms of Development</i> , 2003, 120, 1097-1111.	1.7	111
38	Suppressor of Fused Negatively Regulates $\beta$ -Catenin Signaling. <i>Journal of Biological Chemistry</i> , 2001, 276, 40113-40119.	3.4	109
39	<i>Iroquois</i> homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13576-13581.	7.1	109
40	Differential requirement for Gli2 and Gli3 in ventral neural cell fate specification. <i>Developmental Biology</i> , 2003, 259, 150-161.	2.0	104
41	Loss of the Mouse Ortholog of the Shwachman-Diamond Syndrome Gene ( Sdbs ) Results in Early Embryonic Lethality. <i>Molecular and Cellular Biology</i> , 2006, 26, 6656-6663.	2.3	103
42	Expression of two novel mouse <i>Iroquois</i> homeobox genes during neurogenesis. <i>Mechanisms of Development</i> , 2000, 91, 317-321.	1.7	102
43	Shh Controls Epithelial Proliferation via Independent Pathways that Converge on N-Myc. <i>Developmental Cell</i> , 2005, 9, 293-303.	7.0	99
44	Formation of Proximal and Anterior Limb Skeleton Requires Early Function of <i>Irx3</i> and <i>Irx5</i> and Is Negatively Regulated by Shh Signaling. <i>Developmental Cell</i> , 2014, 29, 233-240.	7.0	95
45	The Gli2 Transcription Factor Is Required for Normal Mouse Mammary Gland Development. <i>Developmental Biology</i> , 2001, 238, 133-144.	2.0	91
46	The <i>Iroquois</i> homeobox gene, <i>Irx5</i> , is required for retinal cone bipolar cell development. <i>Developmental Biology</i> , 2005, 287, 48-60.	2.0	90
47	<i>Pax9</i> and <i>Jagged1</i> act downstream of Gli3 in vertebrate limb development. <i>Mechanisms of Development</i> , 2005, 122, 1218-1233.	1.7	89
48	Murine homologs of <i>deltex</i> define a novel gene family involved in vertebrate Notch signaling and neurogenesis. <i>International Journal of Developmental Neuroscience</i> , 2001, 19, 21-35.	1.6	84
49	New mouse models of congenital anorectal malformations. <i>Journal of Pediatric Surgery</i> , 2000, 35, 227-231.	1.6	83
50	Twist Plays an Essential Role in FGF and SHH Signal Transduction during Mouse Limb Development. <i>Developmental Biology</i> , 2002, 248, 143-156.	2.0	79
51	Failure of a medulloblastoma-derived mutant of SUFU to suppress WNT signaling. <i>Oncogene</i> , 2004, 23, 4577-4583.	5.9	75
52	Single cell and genetic analyses reveal conserved populations and signaling mechanisms of gastrointestinal stromal niches. <i>Nature Communications</i> , 2020, 11, 334.	12.8	73
53	Dissecting the oncogenic potential of Gli2: deletion of an NH(2)-terminal fragment alters skin tumor phenotype. <i>Cancer Research</i> , 2002, 62, 5308-16.	0.9	72
54	Overlapping and non-overlapping <i>Ptch2</i> expression with Shh during mouse embryogenesis. <i>Mechanisms of Development</i> , 1998, 78, 81-84.	1.7	70

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55	Fibroin gene promoter contains a cluster of homeodomain binding sites that interact with three silk gland factors. <i>Journal of Molecular Biology</i> , 1990, 213, 651-670.	4.2	67
56	Cooperative and antagonistic roles for <i>Ir3</i> and <i>Ir5</i> in cardiac morphogenesis and postnatal physiology. <i>Development (Cambridge)</i> , 2012, 139, 4007-4019.	2.5	66
57	Identification of ALK in Thinness. <i>Cell</i> , 2020, 181, 1246-1262.e22.	28.9	66
58	Mice with a Targeted Mutation of <i>Patched2</i> Are Viable but Develop Alopecia and Epidermal Hyperplasia. <i>Molecular and Cellular Biology</i> , 2006, 26, 6609-6622.	2.3	64
59	<i>GLI3</i> Repressor Controls Nephron Number via Regulation of <i>Wnt11</i> and <i>Ret</i> in Ureteric Tip Cells. <i>PLoS ONE</i> , 2009, 4, e7313.	2.5	64
60	Hedgehog/Notch-induced premature gliogenesis represents a new disease mechanism for Hirschsprung disease in mice and humans. <i>Journal of Clinical Investigation</i> , 2011, 121, 3467-3478.	8.2	64
61	<i>Iroquois</i> Homeodomain Transcription Factors in Heart Development and Function. <i>Circulation Research</i> , 2012, 110, 1513-1524.	4.5	63
62	<i>Kif7</i> regulates <i>Gli2</i> through <i>Sufu</i> -dependent and -independent functions during skin development and tumorigenesis. <i>Development (Cambridge)</i> , 2012, 139, 4152-4161.	2.5	61
63	Suppressor of Fused Chaperones <i>Gli</i> Proteins To Generate Transcriptional Responses to Sonic Hedgehog Signaling. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	53
64	Targeted overexpression of elafin protects mice against cardiac dysfunction and mortality following viral myocarditis. <i>Journal of Clinical Investigation</i> , 1999, 103, 1211-1219.	8.2	51
65	<i>Kif7</i> promotes hedgehog signaling in growth plate chondrocytes by restricting the inhibitory function of <i>Sufu</i> . <i>Development (Cambridge)</i> , 2011, 138, 3791-3801.	2.5	50
66	The <i>Iroquois</i> Homeobox Gene <i>Ir2</i> Is Not Essential for Normal Development of the Heart and Midbrain-Hindbrain Boundary in Mice. <i>Molecular and Cellular Biology</i> , 2003, 23, 8216-8225.	2.3	49
67	The transcriptional landscape of <i>Shh</i> medulloblastoma. <i>Nature Communications</i> , 2021, 12, 1749.	12.8	47
68	<i>Cbl-3</i> -Deficient Mice Exhibit Normal Epithelial Development. <i>Molecular and Cellular Biology</i> , 2003, 23, 7708-7718.	2.3	45
69	<i>Gli2</i> is required for normal <i>Shh</i> signaling and oligodendrocyte development in the spinal cord. <i>Molecular and Cellular Neurosciences</i> , 2003, 23, 440-450.	2.2	44
70	The <i>PPF1A1-PP2A</i> protein complex promotes trafficking of <i>Kif7</i> to the ciliary tip and Hedgehog signaling. <i>Science Signaling</i> , 2014, 7, ra117.	3.6	44
71	A Switch from Low to High <i>Shh</i> Activity Regulates Establishment of Limb Progenitors and Signaling Centers. <i>Developmental Cell</i> , 2014, 29, 241-249.	7.0	44
72	<i>Ter94</i> ATPase Complex Targets K11-Linked Ubiquitinated <i>Ci</i> to Proteasomes for Partial Degradation. <i>Developmental Cell</i> , 2013, 25, 636-644.	7.0	43

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73	Irx3 is required for postnatal maturation of the mouse ventricular conduction system. <i>Scientific Reports</i> , 2016, 6, 19197.	3.3	42
74	Identification of GLI Mutations in Patients With Hirschsprung Disease That Disrupt Enteric Nervous System Development in Mice. <i>Gastroenterology</i> , 2015, 149, 1837-1848.e5.	1.3	40
75	Dual Regulatory Functions of SUFU and Targetome of GLI2 in SHH Subgroup Medulloblastoma. <i>Developmental Cell</i> , 2019, 48, 167-183.e5.	7.0	39
76	Hedgehog-Activated Fat4 and PCP Pathways Mediate Mesenchymal Cell Clustering and Villus Formation in Gut Development. <i>Developmental Cell</i> , 2020, 52, 647-658.e6.	7.0	39
77	Ptch2 shares overlapping functions with Ptch1 in Smo regulation and limb development. <i>Developmental Biology</i> , 2015, 397, 191-202.	2.0	38
78	Imbalance of Excitatory/Inhibitory Neuron Differentiation in Neurodevelopmental Disorders with an NR2F1 Point Mutation. <i>Cell Reports</i> , 2020, 31, 107521.	6.4	37
79	Sufu- and Spop-mediated downregulation of Hedgehog signaling promotes beta cell differentiation through organ-specific niche signals. <i>Nature Communications</i> , 2019, 10, 4647.	12.8	35
80	Epidermal hyperplasia and expansion of the interfollicular stem cell compartment in mutant mice with a C-terminal truncation of Patched1. <i>Developmental Biology</i> , 2007, 308, 547-560.	2.0	31
81	Activation of Hedgehog Signaling Promotes Development of Mouse and Human Enteric Neural Crest Cells, Based on Single-Cell Transcriptome Analyses. <i>Gastroenterology</i> , 2019, 157, 1556-1571.e5.	1.3	31
82	<scp>IRX3</scp> and <scp>IRX5</scp> Inhibit Adipogenic Differentiation of Hypertrophic Chondrocytes and Promote Osteogenesis. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2444-2457.	2.8	31
83	Cli2 and Cli3 play distinct roles in the dorsoventral patterning of the mouse hindbrain. <i>Developmental Biology</i> , 2007, 302, 345-355.	2.0	29
84	Patched 1 and Patched 2 Redundancy Has a Key Role in Regulating Epidermal Differentiation. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1981-1990.	0.7	29
85	GLI2 Modulated by SUFU and SPOP Induces Intestinal Stem Cell Niche Signals in Development and Tumorigenesis. <i>Cell Reports</i> , 2019, 27, 3006-3018.e4.	6.4	29
86	Identification and expression of zebrafish Iroquois homeobox gene irx1. <i>Development Genes and Evolution</i> , 2001, 211, 442-444.	0.9	27
87	Presence of isl-1-related LIM Domain Homeobox Genes in Teleost and Their Similar Patterns of Expression in Brain and Spinal Cord. <i>Journal of Biological Chemistry</i> , 1995, 270, 3335-3345.	3.4	26
88	Dynamic expression patterns of Irx3 and Irx5 during germline nest breakdown and primordial follicle formation promote follicle survival in mouse ovaries. <i>PLoS Genetics</i> , 2018, 14, e1007488.	3.5	25
89	Thermogenesis-independent metabolic benefits conferred by isocaloric intermittent fasting in ob/ob mice. <i>Scientific Reports</i> , 2019, 9, 2479.	3.3	22
90	The Iroquois homeobox proteins IRX3 and IRX5 have distinct roles in Wilms tumour development and human nephrogenesis. <i>Journal of Pathology</i> , 2019, 247, 86-98.	4.5	20

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91	Evidence for the differential regulation of Nkx-6.1 expression in the ventral spinal cord and foregut by Shh-dependent and -independent mechanisms. <i>Genesis</i> , 2000, 27, 6-11.	1.6	19
92	Antagonistic and Cooperative Actions of Kif7 and Sufu Define Graded Intracellular Gli Activities in Hedgehog Signaling. <i>PLoS ONE</i> , 2012, 7, e50193.	2.5	18
93	Differential regulation of Gli proteins by Sufu in the lung affects PDGF signaling and myofibroblast development. <i>Developmental Biology</i> , 2014, 392, 324-333.	2.0	18
94	Irx3 and Irx5 in Ins2-Cre+ cells regulate hypothalamic postnatal neurogenesis and leptin response. <i>Nature Metabolism</i> , 2021, 3, 701-713.	11.9	18
95	Sufu and Kif7 in limb patterning and development. <i>Developmental Dynamics</i> , 2015, 244, 468-478.	1.8	15
96	Tibial hemimelia associated with GLI3 truncation. <i>Journal of Human Genetics</i> , 2016, 61, 443-446.	2.3	15
97	Primordial germ cell proliferation is impaired in Fused Toes mutant embryos. <i>Developmental Biology</i> , 2011, 349, 417-426.	2.0	14
98	Adult Gli2+;Gli3 <sup>fl</sup> 699/+ Male and Female Mice Display a Spectrum of Genital Malformation. <i>PLoS ONE</i> , 2016, 11, e0165958.	2.5	14
99	Suppressor of Fused (Sufu) Mediates the Effect of Parathyroid Hormone-like Hormone (Pthlh) on Chondrocyte Differentiation in the Growth Plate. <i>Journal of Biological Chemistry</i> , 2012, 287, 36222-36228.	3.4	13
100	T396I Mutation of Mouse Sufu Reduces the Stability and Activity of Gli3 Repressor. <i>PLoS ONE</i> , 2015, 10, e0119455.	2.5	12
101	Kv4.3-Encoded Fast Transient Outward Current Is Presented in Kv4.2 Knockout Mouse Cardiomyocytes. <i>PLoS ONE</i> , 2015, 10, e0133274.	2.5	12
102	IRX3 and IRX5 collaborate during ovary development and follicle formation to establish responsive granulosa cells in the adult mouse. <i>Biology of Reproduction</i> , 2020, 103, 620-629.	2.7	10
103	Irx3 and Irx5 - Novel Regulatory Factors of Postnatal Hypothalamic Neurogenesis. <i>Frontiers in Neuroscience</i> , 2021, 15, 763856.	2.8	10
104	Phenotypic differences in the brains and limbs of mutant mice caused by differences of Gli3 gene expression levels. <i>Congenital Anomalies (discontinued)</i> , 2001, 41, 89-94.	0.6	9
105	The two domain hypothesis of limb prepattern and its relevance to congenital limb anomalies. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e270.	5.9	9
106	Genetic interaction between Gli3 and Ezh2 during limb pattern formation. <i>Mechanisms of Development</i> , 2018, 151, 30-36.	1.7	8
107	Distinct roles of LVRAG and EGFR signaling in skeletal muscle homeostasis. <i>Molecular Metabolism</i> , 2021, 47, 101185.	6.5	6
108	Ectopic expression of <i>Irx3</i> and <i>Irx5</i> in the paraventricular nucleus of the hypothalamus contributes to defects in <i>Sim1</i> haploinsufficiency. <i>Science Advances</i> , 2021, 7, eabh4503.	10.3	5

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109	IRX3/5 regulate mitotic chromatid segregation and limb bud shape. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	4
110	BCC or not: Sufu keeps it in check. <i>Oncoscience</i> , 2015, 2, 77-78.	2.2	4
111	Ciliary protein Kif7 regulates Gli and Ezh2 for initiating the neuronal differentiation of enteric neural crest cells during development. <i>Science Advances</i> , 2021, 7, eabf7472.	10.3	2
112	A genetic female mouse model with congenital genitourinary anomalies and adult stages of urinary incontinence. <i>Neurourology and Urodynamics</i> , 2017, 36, 1981-1987.	1.5	1
113	Irx5 and transient outward K <sup>+</sup> currents contribute to transmural contractile heterogeneities in the mouse ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H725-H741.	3.2	1
114	Cover Image, Volume 6, Issue 4. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2017, 6, e285.	5.9	0
115	MON-229 IRX3 and IRX5 Regulate Downstream Targets that Promote Ovarian Follicle Integrity in Mice. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.2	0
116	STEM-26. BLOOD-TUMOR BARRIER IS COMPOSED OF MECHANOSENSING TUMOR CELLS THAT MASK THERAPEUTIC VULNERABILITY. <i>Neuro-Oncology</i> , 2021, 23, vi26-vi26.	1.2	0