## **Cheng-Ming Chuong**

## List of Publications by Citations

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127<br/>papers6,115<br/>citations47<br/>h-index76<br/>g-index133<br/>ext. papers6,969<br/>ext. citations8.8<br/>avg, IF5.61<br/>L-index

#	Paper	IF	Citations
127	Cyclic dermal BMP signalling regulates stem cell activation during hair regeneration. <i>Nature</i> , <b>2008</b> , 451, 340-4	50.4	507
126	Local inhibitory action of BMPs and their relationships with activators in feather formation: implications for periodic patterning. <i>Developmental Biology</i> , <b>1998</b> , 196, 11-23	3.1	305
125	Molecular shaping of the beak. <i>Science</i> , <b>2004</b> , 305, 1465-6	33.3	202
124	An integrative approach to understanding bird origins. <i>Science</i> , <b>2014</b> , 346, 1253293	33.3	178
123	The morphogenesis of feathers. <i>Nature</i> , <b>2002</b> , 420, 308-12	50.4	178
122	Evo-Devo of amniote integuments and appendages <i>International Journal of Developmental Biology</i> , <b>2004</b> , 48, 249-270	1.9	151
121	Developmental biology. The Turing model comes of molecular age. <i>Science</i> , <b>2006</b> , 314, 1397-8	33.3	143
<b>12</b> 0	Adhesion molecules in skeletogenesis: II. Neural cell adhesion molecules mediate precartilaginous mesenchymal condensations and enhance chondrogenesis. <i>Journal of Cellular Physiology</i> , <b>1993</b> , 156, 399-411	7	137
119	beta-catenin in epithelial morphogenesis: conversion of part of avian foot scales into feather buds with a mutated beta-catenin. <i>Developmental Biology</i> , <b>2000</b> , 219, 98-114	3.1	133
118	Competitive balance of intrabulge BMP/Wnt signaling reveals a robust gene network ruling stem cell homeostasis and cyclic activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 1351-6	11.5	122
117	Sonic Hedgehog in feather morphogenesis: induction of mesenchymal condensation and association with cell death. <i>Developmental Dynamics</i> , <b>1996</b> , 207, 157-70	2.9	118
116	The biology of feather follicles International Journal of Developmental Biology, 2004, 48, 181-191	1.9	117
115	Evo-devo of feathers and scales: building complex epithelial appendages. <i>Current Opinion in Genetics and Development</i> , <b>2000</b> , 10, 449-56	4.9	113
114	Morpho-regulation of ectodermal organs: integument pathology and phenotypic variations in K14-Noggin engineered mice through modulation of bone morphogenic protein pathway. <i>American Journal of Pathology</i> , <b>2004</b> , 164, 1099-114	5.8	109
113	The making of a feather: homeoproteins, retinoids and adhesion molecules. <i>BioEssays</i> , <b>1993</b> , 15, 513-21	4.1	107
112	Mapping stem cell activities in the feather follicle. <i>Nature</i> , <b>2005</b> , 438, 1026-9	50.4	104
111	Early events during avian skin appendage regeneration: dependence on epithelial-mesenchymal interaction and order of molecular reappearance. <i>Journal of Investigative Dermatology</i> , <b>1996</b> , 107, 639-4	4 <del>6</del> .3	104

## (2003-2002)

110	Synergistic coactivator function by coactivator-associated arginine methyltransferase (CARM) 1 and beta-catenin with two different classes of DNA-binding transcriptional activators. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 26031-5	5.4	103
109	Reptile scale paradigm: Evo-Devo, pattern formation and regeneration. <i>International Journal of Developmental Biology</i> , <b>2009</b> , 53, 813-26	1.9	101
108	Local circadian clock gates cell cycle progression of transient amplifying cells during regenerative hair cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2106-15	11.5	99
107	Integument pattern formation involves genetic and epigenetic controls: feather arrays simulated by digital hormone models <i>International Journal of Developmental Biology</i> , <b>2004</b> , 48, 117-135	1.9	97
106	Distinct Wnt members regulate the hierarchical morphogenesis of skin regions (spinal tract) and individual feathers. <i>Mechanisms of Development</i> , <b>2004</b> , 121, 157-71	1.7	87
105	Mechanism of skin morphogenesis. I. Analyses with antibodies to adhesion molecules tenascin, N-CAM, and integrin. <i>Developmental Biology</i> , <b>1992</b> , 150, 82-98	3.1	86
104	Specialized stem cell niche enables repetitive renewal of alligator teeth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2009-18	11.5	80
103	Molecular signaling in feather morphogenesis. Current Opinion in Cell Biology, 2006, 18, 730-41	9	76
102	Wnt3a gradient converts radial to bilateral feather symmetry via topological arrangement of epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 951-5	11.5	75
101	Successive formative stages of precartilaginous mesenchymal condensations in vitro: modulation of cell adhesion by Wnt-7A and BMP-2. <i>Journal of Cellular Physiology</i> , <b>1999</b> , 180, 314-24	7	75
100	Evo-Devo of amniote integuments and appendages. <i>International Journal of Developmental Biology</i> , <b>2004</b> , 48, 249-70	1.9	73
99	Genetic Mapping and Biochemical Basis of Yellow Feather Pigmentation in Budgerigars. <i>Cell</i> , <b>2017</b> , 171, 427-439.e21	56.2	70
98	Self-organization process in newborn skin organoid formation inspires strategy to restore hair regeneration of adult cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E7101-E7110	11.5	69
97	Tenascin is associated with articular cartilage development. <i>Developmental Dynamics</i> , <b>1993</b> , 198, 123-34	2.9	68
96	Activation of protein kinase A is a pivotal step involved in both BMP-2- and cyclic AMP-induced chondrogenesis. <i>Journal of Cellular Physiology</i> , <b>1997</b> , 170, 153-65	7	67
95	Asymmetric expression of Notch/Delta/Serrate is associated with the anterior-posterior axis of feather buds. <i>Developmental Biology</i> , <b>1997</b> , 188, 181-7	3.1	64
94	The cycling hair follicle as an ideal systems biology research model. <i>Experimental Dermatology</i> , <b>2010</b> , 19, 707-13	4	63
93	Adaptation to the sky: Defining the feather with integument fossils from mesozoic China and experimental evidence from molecular laboratories. <i>The Journal of Experimental Zoology</i> , <b>2003</b> , 298, 42-56		61

92	The biology of feather follicles. International Journal of Developmental Biology, 2004, 48, 181-91	1.9	60
91	Progressive alopecia reveals decreasing stem cell activation probability during aging of mice with epidermal deletion of DNA methyltransferase 1. <i>Journal of Investigative Dermatology</i> , <b>2012</b> , 132, 2681-	-9 <b>d</b> ·3	59
90	Molecular biology of feather morphogenesis: a testable model for evo-devo research. <i>The Journal of Experimental Zoology</i> , <b>2003</b> , 298, 109-22		59
89	Shift of localized growth zones contributes to skin appendage morphogenesis: role of the Wnt/beta-catenin pathway. <i>Journal of Investigative Dermatology</i> , <b>2003</b> , 120, 20-6	4.3	59
88	The tension biology of wound healing. Experimental Dermatology, 2019, 28, 464-471	4	56
87	Regenerative hair waves in aging mice and extra-follicular modulators follistatin, dkk1, and sfrp4. Journal of Investigative Dermatology, <b>2014</b> , 134, 2086-2096	4.3	55
86	Physiological regeneration of skin appendages and implications for regenerative medicine. <i>Physiology</i> , <b>2012</b> , 27, 61-72	9.8	54
85	Topographical mapping of <code>Band Ekeratins</code> on developing chicken skin integuments: Functional interaction and evolutionary perspectives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6770-9	11.5	53
84	Spots and stripes: pleomorphic patterning of stem cells via p-ERK-dependent cell chemotaxis shown by feather morphogenesis and mathematical simulation. <i>Developmental Biology</i> , <b>2009</b> , 334, 369	0-82 <sup>1</sup>	50
83	Analyses of regenerative wave patterns in adult hair follicle populations reveal macro-environmental regulation of stem cell activity. <i>International Journal of Developmental Biology</i> , <b>2009</b> , 53, 857-68	1.9	49
82	Homology and Potential Cellular and Molecular Mechanisms for the Development of Unique Feather Morphologies in Early Birds. <i>Geosciences (Switzerland)</i> , <b>2012</b> , 2, 157-177	2.7	48
81	Adhesion molecules in skeletogenesis: I. Transient expression of neural cell adhesion molecules (NCAM) in osteoblasts during endochondral and intramembranous ossification. <i>Journal of Bone and Mineral Research</i> , <b>1992</b> , 7, 1435-46	6.3	47
80	Local delivery of TGF beta2 can substitute for placode epithelium to induce mesenchymal condensation during skin appendage morphogenesis. <i>Developmental Biology</i> , <b>1996</b> , 179, 347-59	3.1	46
79	Genomic organization, transcriptomic analysis, and functional characterization of avian <code>BandEkeratins</code> in diverse feather forms. <i>Genome Biology and Evolution</i> , <b>2014</b> , 6, 2258-73	3.9	44
78	Defining hair follicles in the age of stem cell bioengineering. <i>Journal of Investigative Dermatology</i> , <b>2007</b> , 127, 2098-100	4.3	43
77	Integument pattern formation involves genetic and epigenetic controls: feather arrays simulated by digital hormone models. <i>International Journal of Developmental Biology</i> , <b>2004</b> , 48, 117-35	1.9	41
76	Molecular histology in skin appendage morphogenesis. <i>Microscopy Research and Technique</i> , <b>1997</b> , 38, 452-65	2.8	40
75	Adhesion molecules in skin development: morphogenesis of feather and hair. <i>Annals of the New York Academy of Sciences</i> , <b>1991</b> , 642, 263-80	6.5	39

## (2011-2013)

74	Module-based complexity formation: periodic patterning in feathers and hairs. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , <b>2013</b> , 2, 97-112	5.9	38
73	Sculpting skin appendages out of epidermal layers via temporally and spatially regulated apoptotic events. <i>Journal of Investigative Dermatology</i> , <b>2004</b> , 122, 1348-55	4.3	37
72	STEM CELLS. Aging, alopecia, and stem cells. <i>Science</i> , <b>2016</b> , 351, 559-60	33.3	36
71	Macroenvironmental regulation of hair cycling and collective regenerative behavior. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2014</b> , 4, a015198	5.4	36
7°	Dynamic imaging of the growth plate cartilage reveals multiple contributors to skeletal morphogenesis. <i>Nature Communications</i> , <b>2015</b> , 6, 6798	17.4	33
69	Feather regeneration as a model for organogenesis. <i>Development Growth and Differentiation</i> , <b>2013</b> , 55, 139-48	3	33
68	Heterochronic truncation of odontogenesis in theropod dinosaurs provides insight into the macroevolution of avian beaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10930-10935	11.5	32
67	Engineering stem cells into organs: topobiological transformations demonstrated by beak, feather, and other ectodermal organ morphogenesis. <i>Current Topics in Developmental Biology</i> , <b>2006</b> , 72, 237-74	5.3	30
66	Diverse feather shape evolution enabled by coupling anisotropic signalling modules with self-organizing branching programme. <i>Nature Communications</i> , <b>2017</b> , 8, ncomms14139	17.4	29
65	Spatial and temporal variations in hemodynamic forces initiate cardiac trabeculation. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	27
64	Multiple Regulatory Modules Are Required for Scale-to-Feather Conversion. <i>Molecular Biology and Evolution</i> , <b>2018</b> , 35, 417-430	8.3	26
63	Rooster feathering, androgenic alopecia, and hormone-dependent tumor growth: what is in common?. <i>Differentiation</i> , <b>2004</b> , 72, 474-88	3.5	26
62	Regeneration of reptilian scales after wounding: neogenesis, regional difference, and molecular modules. <i>Regeneration (Oxford, England)</i> , <b>2014</b> , 1, 15-26		25
61	Shaping organs by a wingless-int/Notch/nonmuscle myosin module which orients feather bud elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1452-61	11.5	25
60	Development and evolution of the amniote integument: current landscape and future horizon. <i>The Journal of Experimental Zoology</i> , <b>2003</b> , 298, 1-11		25
59	Dkk2/Frzb in the dermal papillae regulates feather regeneration. <i>Developmental Biology</i> , <b>2014</b> , 387, 167	7 <i>-3</i> 7.18	24
58	Transcriptomic analyses of regenerating adult feathers in chicken. <i>BMC Genomics</i> , <b>2015</b> , 16, 756	4.5	24
57	From buds to follicles: matrix metalloproteinases in developmental tissue remodeling during feather morphogenesis. <i>Differentiation</i> , <b>2011</b> , 81, 307-14	3.5	22

56	Regulation of melanocyte stem cells in the pigmentation of skin and its appendages: Biological patterning and therapeutic potentials. <i>Experimental Dermatology</i> , <b>2019</b> , 28, 395-405	4	22
55	Instructive role of melanocytes during pigment pattern formation of the avian skin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6884-6890	11.5	21
54	Comparative regenerative biology of spiny (Acomys cahirinus) and laboratory (Mus musculus) mouse skin. <i>Experimental Dermatology</i> , <b>2019</b> , 28, 442-449	4	21
53	Roles of GasderminA3 in Catagen-Telogen Transition During Hair Cycling. <i>Journal of Investigative Dermatology</i> , <b>2015</b> , 135, 2162-2172	4.3	21
52	Calcium oscillations coordinate feather mesenchymal cell movement by SHH dependent modulation of gap junction networks. <i>Nature Communications</i> , <b>2018</b> , 9, 5377	17.4	21
51	Contraction of basal filopodia controls periodic feather branching via Notch and FGF signaling.  Nature Communications, 2018, 9, 1345	17.4	20
50	Pattern formation today. International Journal of Developmental Biology, 2009, 53, 653-8	1.9	20
49	SnapShot: Branching Morphogenesis. <i>Cell</i> , <b>2014</b> , 158, 1212-1212.e1	56.2	19
48	The "tao" of integuments. <i>Science</i> , <b>2016</b> , 354, 1533-1534	33.3	19
47	Generation of full-length cDNA library from single human prostate cancer cells. <i>BioTechniques</i> , <b>1999</b> , 27, 410-2, 414	2.5	16
46	The Making of a Flight Feather: Bio-architectural Principles and Adaptation. <i>Cell</i> , <b>2019</b> , 179, 1409-1423.	e\$8.2	16
45	Getting to the Core of the Dermal Papilla. <i>Journal of Investigative Dermatology</i> , <b>2017</b> , 137, 2250-2253	4.3	14
44	Msx2 Supports Epidermal Competencyduring Wound-Induced Hair Follicle Neogenesis. <i>Journal of Investigative Dermatology</i> , <b>2018</b> , 138, 2041-2050	4.3	14
43	The river of stem cells. Cell Stem Cell, 2009, 4, 100-2	18	14
42	Self-organizing hair peg-like structures from dissociated skin progenitor cells: New insights for human hair follicle organoid engineering and Turing patterning in an asymmetric morphogenetic field. <i>Experimental Dermatology</i> , <b>2019</b> , 28, 355-366	4	12
41	Comprehensive molecular and cellular studies suggest avian scutate scales are secondarily derived from feathers, and more distant from reptilian scales. <i>Scientific Reports</i> , <b>2018</b> , 8, 16766	4.9	12
40	Roles of EphB3/ephrin-B1 in feather morphogenesis. <i>International Journal of Developmental Biology</i> , <b>2012</b> , 56, 719-28	1.9	11
39	Simulating self-organization for multi-robot systems		10

38	Effect of in ovo retinoic acid exposure on forebrain neural crest: in vitro analysis reveals up-regulation of N-CAM and loss of mesenchymal phenotype. <i>Developmental Dynamics</i> , <b>1994</b> , 200, 89-1	0 <del>2</del> 9	10
37	Regulatory Differences in Natal Down Development between Altricial Zebra Finch and Precocial Chicken. <i>Molecular Biology and Evolution</i> , <b>2016</b> , 33, 2030-43	8.3	10
36	Quorum sensing and other collective regenerative behavior in organ populations. <i>Current Opinion in Genetics and Development</i> , <b>2016</b> , 40, 138-143	4.9	10
35	Emergence of differentially regulated pathways associated with the development of regional specificity in chicken skin. <i>BMC Genomics</i> , <b>2015</b> , 16, 22	4.5	9
34	Folding Keratin Gene Clusters during Skin Regional Specification. Developmental Cell, 2020, 53, 561-576	5 <b>.∉9</b> .2	9
33	Comparative genomics and transcriptomics of Chrysolophus provide insights into the evolution of complex plumage coloration. <i>GigaScience</i> , <b>2018</b> , 7,	7.6	9
32	Turing patterning with and without a global wave. PLoS Biology, 2019, 17, e3000195	9.7	8
31	Skin morphogenesis. Embryonic chicken skin explant cultures. <i>Methods in Molecular Biology</i> , <b>2000</b> , 136, 101-6	1.4	7
30	Avian Pigment Pattern Formation: Developmental Control of Macro- (Across the Body) and Micro- (Within a Feather) Level of Pigment Patterns. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 620	5.7	7
29	Symmetry breaking of tissue mechanics in wound induced hair follicle regeneration of laboratory and spiny mice. <i>Nature Communications</i> , <b>2021</b> , 12, 2595	17.4	7
28	Morpho-regulation in diverse chicken feather formation: Integrating branching modules and sex hormone-dependent morpho-regulatory modules. <i>Development Growth and Differentiation</i> , <b>2019</b> , 61, 124-138	3	6
27	Niche Modulation of IGF-1R Signaling: Its Role in Stem Cell Pluripotency, Cancer Reprogramming, and Therapeutic Applications. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 625943	5.7	6
26	Epidermal Darwinism and Competitive Equilibrium within the Epidermis. Cell Stem Cell, 2018, 23, 627-62	2 <b>9</b> 8	5
25	Transcriptome analyses of reprogrammed feather / scale chimeric explants revealed co-expressed epithelial gene networks during organ specification. <i>BMC Genomics</i> , <b>2018</b> , 19, 780	4.5	4
24	Proper BMP Signaling Levels Are Essential for 3D Assembly of Hepatic Cords from Hepatoblasts and Mesenchymal Cells. <i>Digestive Diseases and Sciences</i> , <b>2015</b> , 60, 3669-80	4	3
23	Integrating Bioelectrical Currents and Ca Signaling with Biochemical Signaling in Development and Pathogenesis. <i>Bioelectricity</i> , <b>2020</b> , 2, 210-220	2	3
22	The Effects of Premature Tooth Extraction and Damage on Replacement Timing in the Green Iguana. <i>Integrative and Comparative Biology</i> , <b>2020</b> , 60, 581-593	2.8	3
21	Regional specific differentiation of integumentary organs: SATB2 is involved in 🛭 and Ekeratin gene cluster switching in the chicken. <i>Developmental Dynamics</i> , <b>2021</b> ,	2.9	3

20	Human Fetal Scalp Dermal Papilla Enriched Genes and the Role of R-Spondin-1 in the Restoration of Hair Neogenesis in Adult Mouse Cells. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 583434	5.7	2
19	The genetic basis for pigmentation phenotypes in poultry. <i>Burleigh Dodds Series in Agricultural Science</i> , <b>2020</b> , 67-106	2	2
18	Global feather orientations changed by electric current. <i>IScience</i> , <b>2021</b> , 24, 102671	6.1	2
17	Regional Specific Differentiation of Integumentary Organs: Regulation of Gene Clusters within the Avian Epidermal Differentiation Complex and Impacts of SATB2 Overexpression. <i>Genes</i> , <b>2021</b> , 12,	4.2	2
16	Making region-specific integumentary organs in birds: evolution and modifications. <i>Current Opinion in Genetics and Development</i> , <b>2021</b> , 69, 103-111	4.9	2
15	The crest phenotype in domestic chicken is caused by a 197 bp duplication in the intron of HOXC10. <i>G3: Genes, Genomes, Genetics</i> , <b>2021</b> , 11,	3.2	2
14	Sonic hedgehog in feather morphogenesis: Induction of mesenchymal condensation and association with cell death <b>1996</b> , 207, 157		2
13	Self-assembly of biological networks via adaptive patterning revealed by avian intradermal muscle network formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 10858-10867	11.5	1
12	Connectivity between nidopallium caudolateral and visual pathways in color perception of zebra finches. <i>Scientific Reports</i> , <b>2020</b> , 10, 19382	4.9	1
11	Variations of Mesozoic feathers: Insights from the morphogenesis of extant feather rachises. <i>Evolution; International Journal of Organic Evolution</i> , <b>2020</b> , 74, 2121-2133	3.8	1
10	Skin Cyst: A Pathological Dead-End With a New Twist of Morphogenetic Potentials in Organoid Cultures. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 628114	5.7	1
9	MicroCT Imaging on Living Alligator Teeth Reveals Natural Tooth Cycling. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1650, 355-362	1.4	O
8	The feather pattern autosomal barring in chicken is strongly associated with segregation at the MC1R locus. <i>Pigment Cell and Melanoma Research</i> , <b>2021</b> , 34, 1015-1028	4.5	О
7	The global regulatory logic of organ regeneration: circuitry lessons from skin and its appendages. <i>Biological Reviews</i> , <b>2021</b> , 96, 2573-2583	13.5	O
6	Tissue Mechanics in Haired Murine Skin: Potential Implications for Skin Aging. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 635340	5.7	0
5	Epigenetic and Environmental Regulation of Skin Appendage Regeneration <b>2015</b> , 163-184		
4	026Altered Skin Wound Healing in Homeobox Gene Msx-2 Knockout Mice. <i>Wound Repair and Regeneration</i> , <b>2008</b> , 13, A4-A27	3.6	
3	Evo-Devo of Scales, Feathers, and Hairs <b>2020</b> , 1-17		

- Evo-Devo of Scales, Feathers, and Hairs **2021**, 921-937
- A quantitative image-based protocol for morphological characterization of cellular solids in feather shafts. *STAR Protocols*, **2021**, 2, 100661

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