Clifford Tabin

List of Publications by Year
in descending order

71 papers	7,875 citations	126708 33 h-index	102304 66 g-index
76 all docs	76 docs citations	76 times ranked	9527 citing authors

#	Article	IF	Citations
1	Biochemical evidence that Patched is the Hedgehog receptor. Nature, 1996, 384, 176-179.	13.7	781
2	A Tissue-Mapped Axolotl De Novo Transcriptome Enables Identification of Limb Regeneration Factors. Cell Reports, 2017, 18, 762-776.	2.9	752
3	Analysis of the tendon cell fate using Scleraxis, a specific marker for tendons and ligaments. Development (Cambridge), 2001, 128, 3855-3866.	1.2	749
4	Genetic Analysis of the Roles of BMP2, BMP4, and BMP7 in Limb Patterning and Skeletogenesis. PLoS Genetics, 2006, 2, e216.	1.5	532
5	Distinct WNT Pathways Regulating AER Formation and Dorsoventral Polarity in the Chick Limb Bud. Science, 1998, 280, 1274-1277.	6.0	397
6	Cryptic Variation in Morphological Evolution: HSP90 as a Capacitor for Loss of Eyes in Cavefish. Science, 2013, 342, 1372-1375.	6.0	319
7	Targeted misexpression of Hox-4.6 in the avian limb bud causes apparent homeotic transformations. Nature, 1992, 358, 236-239.	13.7	309
8	Role of Pitx1 Upstream of Tbx4 in Specification of Hindlimb Identity. Science, 1999, 283, 1736-1739.	6.0	280
9	A Novel Role for Mc1r in the Parallel Evolution of Depigmentation in Independent Populations of the Cavefish Astyanax mexicanus. PLoS Genetics, 2009, 5, e1000326.	1.5	272
10	Bending Gradients: How the Intestinal Stem Cell Gets Its Home. Cell, 2015, 161, 569-580.	13.5	234
11	A two-cilia model for vertebrate left-right axis specification. Genes and Development, 2003, 17, 1-6.	2.7	226
12	Tbx5 is required for forelimb bud formation and continued outgrowth. Development (Cambridge), 2003, 130, 2741-2751.	1.2	204
13	Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9668-9673.	3.3	199
14	Insulin resistance in cavefish as an adaptation to a nutrient-limited environment. Nature, 2018, 555, 647-651.	13.7	196
15	Cell Movements at Hensenâ€™s Node Establish Left/Right Asymmetric Gene Expression in the Chick. Science, 2009, 324, 941-944.	6.0	157
16	Bmp2 instructs cardiac progenitors to form the heart-valve-inducing field. Developmental Biology, 2006, 295, 580-588.	0.9	144
17	Vertebrate Limb Bud Formation Is Initiated by Localized Epithelial-to-Mesenchymal Transition. Science, 2014, 343, 1253-1256.	6.0	141
18	Initiation of Proximal-Distal Patterning in the Vertebrate Limb by Signals and Growth. Science, 2011, 332, 1083-1086.	6.0	140

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19	Mutation of a nucleosome compaction region disrupts Polycomb-mediated axial patterning. Science, 2017, 355, 1081-1084.	6.0	133
20	Patterning and post-patterning modes of evolutionary digit loss in mammals. Nature, 2014, 511, 41-45.	13.7	127
21	Lgr6 marks nail stem cells and is required for digit tip regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13249-13254.	3.3	104
22	Genetic and Mechanical Regulation of Intestinal Smooth Muscle Development. Cell, 2019, 179, 90-105.e21.	13.5	95
23	The Key to Left-Right Asymmetry. Cell, 2006, 127, 27-32.	13.5	88
24	Evolutionary relationships between the amphibian, avian, and mammalian stomachs. Evolution & Development, 2000, 2, 348-359.	1.1	75
25	BMP signaling controls buckling forces to modulate looping morphogenesis of the gut. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2277-2282.	3.3	74
26	A relative shift in cloacal location repositions external genitalia in amniote evolution. Nature, 2014, 516, 391-394.	13.7	70
27	The molecular ZPA. The Journal of Experimental Zoology, 1998, 282, 677-690.	1.4	63
28	Independent regulation of vertebral number and vertebral identity by microRNA-196 paralogs. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4884-93.	3.3	60
29	A chromosome-level genome of Astyanax mexicanus surface fish for comparing population-specific genetic differences contributing to trait evolution. Nature Communications, 2021, 12, 1447.	5.8	60
30	A genetic basis of variation in eccrine sweat gland and hair follicle density. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9932-9937.	3.3	57
31	A developmental model for thalidomide defects. Nature, 1998, 396, 322-323.	13.7	55
32	Protein and lipid mass concentration measurement in tissues by stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117938119.	3.3	46
33	BMP signalling specifies the pyloric sphincter. Nature, 1999, 402, 748-749.	13.7	44
34	A new spin on handed asymmetry. Nature, 1999, 397, 295-298.	13.7	42
35	Scaling Pattern to Variations in Size during Development of the Vertebrate Neural Tube. Developmental Cell, 2016, 37, 127-135.	3.1	41
36	L-type voltage-gated Ca ²⁺ channel Ca _V 1.2 regulates chondrogenesis during limb development. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21592-21601.	3.3	41

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37	Blueprint for an intestinal villus: Speciesâ€specific assembly required. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e317.	5.9	39
38	Molecular control of macroscopic forces drives formation of the vertebrate hindgut. Nature, 2019, 565, 480-484.	13.7	39
39	Multiple Phylogenetically Distinct Events Shaped the Evolution of Limb Skeletal Morphologies Associated with Bipedalism in the Jerboas. Current Biology, 2015, 25, 2785-2794.	1.8	38
40	Identity and novelty in the avian syrinx. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10209-10217.	3.3	38
41	Deep homology in the age of next-generation sequencing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20150475.	1.8	36
42	Comparative evidence for the independent evolution of hair and sweat gland traits in primates. Journal of Human Evolution, 2018, 125, 99-105.	1.3	36
43	On the Formation of Digits and Joints during Limb Development. Developmental Cell, 2017, 41, 459-465.	3.1	32
44	Dynamic expression of two thrombospondins during axolotl limb regeneration. Developmental Dynamics, 2011, 240, 1249-1258.	0.8	26
45	Grasping Limb Patterning. Science, 2008, 321, 350-352.	6.0	25
46	Achieving bilateral symmetry during vertebrate limb development. Seminars in Cell and Developmental Biology, 2009, 20, 479-484.	2.3	25
47	Temperature preference of cave and surface populations of Astyanax mexicanus. Developmental Biology, 2018, 441, 338-344.	0.9	25
48	Attenuated Fgf Signaling Underlies the Forelimb Heterochrony in the Emu Dromaius novaehollandiae. Current Biology, 2019, 29, 3681-3691.e5.	1.8	24
49	Chick midgut morphogenesis. International Journal of Developmental Biology, 2018, 62, 109-119.	0.3	22
50	Morphogenesis and motility of the Astyanax mexicanus gastrointestinal tract. Developmental Biology, 2018, 441, 285-296.	0.9	22
51	Integration of Shh and Fgf signaling in controlling <i>Hox</i> gene expression in cultured limb cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3139-3144.	3.3	21
52	Molecular anatomy of the developing limb in the coquÃ-frog, <i><scp>E</scp>leutherodactylus coqui</i>. Evolution & Development, 2011, 13, 415-426.	1.1	16
53	Limb positioning and initiation: An evolutionary context of pattern and formation. Developmental Dynamics, 2021, 250, 1264-1279.	0.8	16
54	Clocks and Hox. Nature, 2001, 412, 780-781.	13.7	13

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55	Saunders's framework for understanding limb development as a platform for investigating limb evolution. Developmental Biology, 2017, 429, 401-408.	0.9	11
56	Hox mutations au naturel. Nature Genetics, 1996, 13, 256-258.	9.4	9
57	Genetic architecture underlying changes in carotenoid accumulation during the evolution of the blind Mexican cavefish, <i>Astyanax mexicanus</i>. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 405-422.	0.6	9
58	The mevalonate pathway is a critical regulator of tendon cell specification. Development (Cambridge), 2020, 147, .	1.2	8
59	Unique pelvic fin in a tetrapod-like fossil fish, and the evolution of limb patterning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12005-12010.	3.3	7
60	Raising the Mexican Tetra Astyanax mexicanus for Analysis of Post-larval Phenotypes and Whole-mount Immunohistochemistry. Journal of Visualized Experiments, 2018, , .	0.2	7
61	Genetic mapping of metabolic traits in the blind Mexican cavefish reveals sex-dependent quantitative trait loci associated with cave adaptation. Bmc Ecology and Evolution, 2021, 21, 94.	0.7	7
62	Developmental Biology: Hox Timing Determines Limb Placement. Current Biology, 2019, 29, R52-R54.	1.8	6
63	<i>In ovo</i> electroporation of chicken limb bud ectoderm. Developmental Dynamics, 2022, 251, 1628-1638.	0.8	5
64	miRâ€128â€ is not required for hair pigmentation in mice. Experimental Dermatology, 2017, 26, 940-942.	1.4	2
65	The dynamic organizer. Nature Cell Biology, 1999, 1, E179-E181.	4.6	1
66	Little Fish, Big Questions: A Collection of Modern Techniques for Mexican Tetra Research. Journal of Visualized Experiments, 2020, , .	0.2	1
67	Developmental model for thalidomide action. Nature, 1999, 400, 420-420.	13.7	0
68	Cell Velocity Gradients Underlie Early Morphogenesis of the Avian Gut Tube. , 2012, , .		0
69	Novel molecular mechanisms regulating Shh expression and limb patterning. FASEB Journal, 2007, 21, A199.	0.2	0
70	Evolution of Vertebrate Limb Morphology. FASEB Journal, 2013, 27, 74.3.	0.2	0
71	Essential Genes in the Development and Maintenance of the Temporomandibular Joint. FASEB Journal, 2013, 27, 319.5.	0.2	0