Christopher J Lowe

List of Publications by Citations

49 papers	3,549 citations	32 h-index	56 g-index
56 ext. papers	4,228 ext. citations	11 avg, IF	5.07 L-index

#	Paper	IF	Citations
49	Deuterostome phylogeny reveals monophyletic chordates and the new phylum Xenoturbellida. *Nature*, **2006**, 444, 85-8	50.4	424
48	Anteroposterior patterning in hemichordates and the origins of the chordate nervous system. *Cell*, **2003**, 113, 853-65	56.2	392
47	The origin and evolution of animal appendages. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 5162-6	11.5	332
46	Dorsoventral patterning in hemichordates: insights into early chordate evolution. *PLoS Biology*, **2006**, 4, e291	9.7	260
45	Radical alterations in the roles of homeobox genes during echinoderm evolution. *Nature*, **1997**, 389, 718-21	50.4	240
44	Ancient deuterostome origins of vertebrate brain signalling centres. *Nature*, **2012**, 483, 289-94	50.4	181
43	Hemichordate genomes and deuterostome origins. *Nature*, **2015**, 527, 459-65	50.4	144
42	Hox gene expression in the hemichordate Saccoglossus kowalevskii and the evolution of deuterostome nervous systems. *Integrative and Comparative Biology*, **2006**, 46, 890-901	2.8	99
41	Centralization of the deuterostome nervous system predates chordates. *Current Biology*, **2009**, 19, 1264-9	8.3	95
40	Chaetognath phylogenomics: a protostome with deuterostome-like development. *Current Biology*, **2006**, 16, R577-8	6.3	93
39	Hemichordates and the origin of chordates. *Current Opinion in Genetics and Development*, **2005**, 15, 461-7	4.9	87
38	The deuterostome context of chordate origins. *Nature*, **2015**, 520, 456-65	50.4	81
37	Phylogenomic analysis of echinoderm class relationships supports Asterozoa. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281,	4.4	80
36	Catenin specifies the endomesoderm and defines the posterior organizer of the hemichordate Saccoglossus kowalevskii. *Development (Cambridge)*, **2011**, 138, 959-70	6.6	77
35	A stem-deuterostome origin of the vertebrate pharyngeal transcriptional network. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 237-46	4.4	68
34	Molecular genetic insights into deuterostome evolution from the direct-developing hemichordate Saccoglossus kowalevskii. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 1569-78	5.8	57
33	Hemichordate embryos: procurement, culture, and basic methods. *Methods in Cell Biology*, **2004**, 74, 171-94	1.8	52

32	Structural shifts of aldehyde dehydrogenase enzymes were instrumental for the early evolution of retinoid-dependent axial patterning in metazoans. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 226-31	11.5	51
31	Embracing the comparative approach: how robust phylogenies and broader developmental sampling impacts the understanding of nervous system evolution. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2015**, 370,	5.8	50
30	The Fox/Forkhead transcription factor family of the hemichordate Saccoglossus kowalevskii. *EvoDevo*, **2014**, 5, 17	3.2	48
29	Gene expression and larval evolution: changing roles of distal-less and orthodenticle in echinoderm larvae. *Evolution & Development*, **2002**, 4, 111-23	2.6	44
28	Evolutionary crossroads in developmental biology: hemichordates. *Development (Cambridge)*, **2012**, 139, 2463-75	6.6	43
27	cDNA sequences for transcription factors and signaling proteins of the hemichordate Saccoglossus kowalevskii: efficacy of the expressed sequence tag (EST) approach for evolutionary and developmental studies of a new organism. *Biological Bulletin*, **2008**, 214, 284-302	1.5	43
26	Developmental regulatory genes and echinoderm evolution. *Systematic Biology*, **2000**, 49, 28-51	8.4	43
25	The evolutionary origin of epithelial cell-cell adhesion mechanisms. *Current Topics in Membranes*, **2013**, 72, 267-311	2.2	42
24	Cis-regulatory architecture of a brain signaling center predates the origin of chordates. *Nature Genetics*, **2016**, 48, 575-80	36.3	40
23	FGF signaling induces mesoderm in the hemichordate Saccoglossus kowalevskii. *Development (Cambridge)*, **2013**, 140, 1024-33	6.6	38
22	Co-option of an anteroposterior head axis patterning system for proximodistal patterning of appendages in early bilaterian evolution. *Developmental Biology*, **2010**, 344, 358-62	3.1	37
21	Identical genomic organization of two hemichordate hox clusters. *Current Biology*, **2012**, 22, 2053-8	6.3	35
20	The Adult Body Plan of Indirect Developing Hemichordates Develops by Adding a Hox-Patterned Trunk to an Anterior Larval Territory. *Current Biology*, **2017**, 27, 87-95	6.3	34
19	Diversification of the expression patterns and developmental functions of the dishevelled gene family during chordate evolution. *Developmental Dynamics*, **2009**, 238, 2044-57	2.9	34
18	Anteroposterior axis patterning by early canonical Wnt signaling during hemichordate development. *PLoS Biology*, **2018**, 16, e2003698	9.7	33
17	On a possible evolutionary link of the stomochord of hemichordates to pharyngeal organs of chordates. *Genesis*, **2014**, 52, 925-34	1.9	26
16	Reconstructing SALMFamide Neuropeptide Precursor Evolution in the Phylum Echinodermata: Ophiuroid and Crinoid Sequence Data Provide New Insights. *Frontiers in Endocrinology*, **2015**, 6, 2	5.7	18
15	Rethinking competence in marine life cycles: ontogenetic changes in the settlement response of sand dollar larvae exposed to turbulence. *Royal Society Open Science*, **2015**, 2, 150114	3.3	18

14	Untangling posterior growth and segmentation by analyzing mechanisms of axis elongation in hemichordates. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 8403-8408	11.5	16
13	Characterization of the Cadherin-Catenin Complex of the Sea Anemone Nematostella vectensis and Implications for the Evolution of Metazoan Cell-Cell Adhesion. *Molecular Biology and Evolution*, **2016**, 33, 2016-29	8.3	16
12	The development and metamorphosis of the indirect developing acorn worm (Enteropneusta: Spengelidae). *Frontiers in Zoology*, **2018**, 15, 26	2.8	14
11	Animal evolution: stiff or squishy notochord origins?. *Current Biology*, **2014**, 24, R1131-3	6.3	14
10	Animal evolution: a soap opera of unremarkable worms. *Current Biology*, **2011**, 21, R151-3	6.3	10
9	The cadherin-catenin complex is necessary for cell adhesion and embryogenesis in Nematostella vectensis. *Developmental Biology*, **2019**, 447, 170-181	3.1	8
8	Molecular evidence for a single origin of ultrafiltration-based excretory organs. *Current Biology*, **2021**, 31, 3629-3638.e2	6.3	7
7	Molecular patterning during the development of reveals similarities to rhynchonelliform brachiopods. *EvoDevo*, **2019**, 10, 33	3.2	6
6	I-SceI Meganuclease-mediated transgenesis in the acorn worm, Saccoglossus kowalevskii. *Developmental Biology*, **2019**, 445, 8-15	3.1	6
5	Rearing larvae of sea urchins and sea stars for developmental studies. *Methods in Molecular Biology*, **2000**, 135, 9-15	1.4	5
4	Neural anatomy of echinoid early juveniles and comparison of nervous system organization in echinoderms. *Journal of Comparative Neurology*, **2021**, 529, 1135-1156	3.4	4
3	A single origin of animal excretory organs		1
2	Molecular insights into deuterostome evolution from hemichordate developmental biology. *Current Topics in Developmental Biology*, **2021**, 141, 75-117	5.3	1
1	Saccoglossus kowalevskii: Evo-devo insights from the mud.. *Current Topics in Developmental Biology* , **2022**, 147, 545-562	5.3	