

Christopher J Lowe

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	<i>Saccoglossus kowalevskii</i> : Evo-devo insights from the mud.. <i>Current Topics in Developmental Biology</i> , 2022 , 147, 545-562	5.3	
48	Neural anatomy of echinoid early juveniles and comparison of nervous system organization in echinoderms. <i>Journal of Comparative Neurology</i> , 2021 , 529, 1135-1156	3.4	4
47	Molecular evidence for a single origin of ultrafiltration-based excretory organs. <i>Current Biology</i> , 2021 , 31, 3629-3638.e2	6.3	7
46	Molecular insights into deuterostome evolution from hemichordate developmental biology. <i>Current Topics in Developmental Biology</i> , 2021 , 141, 75-117	5.3	1
45	Untangling posterior growth and segmentation by analyzing mechanisms of axis elongation in hemichordates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8403-8408	11.5	16
44	Molecular patterning during the development of reveals similarities to rhynchonelliform brachiopods. <i>EvoDevo</i> , 2019 , 10, 33	3.2	6
43	I-SceI Meganuclease-mediated transgenesis in the acorn worm, <i>Saccoglossus kowalevskii</i> . <i>Developmental Biology</i> , 2019 , 445, 8-15	3.1	6
42	The cadherin-catenin complex is necessary for cell adhesion and embryogenesis in <i>Nematostella vectensis</i> . <i>Developmental Biology</i> , 2019 , 447, 170-181	3.1	8
41	The development and metamorphosis of the indirect developing acorn worm (Enteropneusta: Spengelidae). <i>Frontiers in Zoology</i> , 2018 , 15, 26	2.8	14
40	Anteroposterior axis patterning by early canonical Wnt signaling during hemichordate development. <i>PLoS Biology</i> , 2018 , 16, e2003698	9.7	33
39	The Adult Body Plan of Indirect Developing Hemichordates Develops by Adding a Hox-Patterned Trunk to an Anterior Larval Territory. <i>Current Biology</i> , 2017 , 27, 87-95	6.3	34
38	Characterization of the Cadherin-Catenin Complex of the Sea Anemone <i>Nematostella vectensis</i> and Implications for the Evolution of Metazoan Cell-Cell Adhesion. <i>Molecular Biology and Evolution</i> , 2016 , 33, 2016-29	8.3	16
37	Cis-regulatory architecture of a brain signaling center predates the origin of chordates. <i>Nature Genetics</i> , 2016 , 48, 575-80	36.3	40
36	Reconstructing SALMFamide Neuropeptide Precursor Evolution in the Phylum Echinodermata: Ophiuroid and Crinoid Sequence Data Provide New Insights. <i>Frontiers in Endocrinology</i> , 2015 , 6, 2	5.7	18
35	The deuterostome context of chordate origins. <i>Nature</i> , 2015 , 520, 456-65	50.4	81
34	Hemichordate genomes and deuterostome origins. <i>Nature</i> , 2015 , 527, 459-65	50.4	144
33	Embracing the comparative approach: how robust phylogenies and broader developmental sampling impacts the understanding of nervous system evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	50

32	Rethinking competence in marine life cycles: ontogenetic changes in the settlement response of sand dollar larvae exposed to turbulence. <i>Royal Society Open Science</i> , 2015 , 2, 150114	3.3	18
31	Phylogenomic analysis of echinoderm class relationships supports Asterozoa. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	80
30	Animal evolution: stiff or squishy notochord origins?. <i>Current Biology</i> , 2014 , 24, R1131-3	6.3	14
29	On a possible evolutionary link of the stomochord of hemichordates to pharyngeal organs of chordates. <i>Genesis</i> , 2014 , 52, 925-34	1.9	26
28	The Fox/Forkhead transcription factor family of the hemichordate <i>Saccoglossus kowalevskii</i> . <i>EvoDevo</i> , 2014 , 5, 17	3.2	48
27	The evolutionary origin of epithelial cell-cell adhesion mechanisms. <i>Current Topics in Membranes</i> , 2013 , 72, 267-311	2.2	42
26	FGF signaling induces mesoderm in the hemichordate <i>Saccoglossus kowalevskii</i> . <i>Development (Cambridge)</i> , 2013 , 140, 1024-33	6.6	38
25	Ancient deuterostome origins of vertebrate brain signalling centres. <i>Nature</i> , 2012 , 483, 289-94	50.4	181
24	Evolutionary crossroads in developmental biology: hemichordates. <i>Development (Cambridge)</i> , 2012 , 139, 2463-75	6.6	43
23	Identical genomic organization of two hemichordate hox clusters. <i>Current Biology</i> , 2012 , 22, 2053-8	6.3	35
22	A stem-deuterostome origin of the vertebrate pharyngeal transcriptional network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 237-46	4.4	68
21	Animal evolution: a soap opera of unremarkable worms. <i>Current Biology</i> , 2011 , 21, R151-3	6.3	10
20	Etatenin specifies the endomesoderm and defines the posterior organizer of the hemichordate <i>Saccoglossus kowalevskii</i> . <i>Development (Cambridge)</i> , 2011 , 138, 959-70	6.6	77
19	Structural shifts of aldehyde dehydrogenase enzymes were instrumental for the early evolution of retinoid-dependent axial patterning in metazoans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 226-31	11.5	51
18	Co-option of an anteroposterior head axis patterning system for proximodistal patterning of appendages in early bilaterian evolution. <i>Developmental Biology</i> , 2010 , 344, 358-62	3.1	37
17	Centralization of the deuterostome nervous system predates chordates. <i>Current Biology</i> , 2009 , 19, 1264-9	6.3	95
16	Diversification of the expression patterns and developmental functions of the dishevelled gene family during chordate evolution. <i>Developmental Dynamics</i> , 2009 , 238, 2044-57	2.9	34
15	Molecular genetic insights into deuterostome evolution from the direct-developing hemichordate <i>Saccoglossus kowalevskii</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 1569-78	5.8	57

14	cDNA sequences for transcription factors and signaling proteins of the hemichordate <i>Saccoglossus kowalevskii</i> : efficacy of the expressed sequence tag (EST) approach for evolutionary and developmental studies of a new organism. <i>Biological Bulletin</i> , 2008 , 214, 284-302	1.5	43
13	Chaetognath phylogenomics: a protostome with deuterostome-like development. <i>Current Biology</i> , 2006 , 16, R577-8	6.3	93
12	Dorsoventral patterning in hemichordates: insights into early chordate evolution. <i>PLoS Biology</i> , 2006 , 4, e291	9.7	260
11	Hox gene expression in the hemichordate <i>Saccoglossus kowalevskii</i> and the evolution of deuterostome nervous systems. <i>Integrative and Comparative Biology</i> , 2006 , 46, 890-901	2.8	99
10	Deuterostome phylogeny reveals monophyletic chordates and the new phylum Xenoturbellida. <i>Nature</i> , 2006 , 444, 85-8	50.4	424
9	Hemichordates and the origin of chordates. <i>Current Opinion in Genetics and Development</i> , 2005 , 15, 461-7	4.9	87
8	Hemichordate embryos: procurement, culture, and basic methods. <i>Methods in Cell Biology</i> , 2004 , 74, 171-94	1.8	52
7	Anteroposterior patterning in hemichordates and the origins of the chordate nervous system. <i>Cell</i> , 2003 , 113, 853-65	56.2	392
6	Gene expression and larval evolution: changing roles of distal-less and orthodenticle in echinoderm larvae. <i>Evolution & Development</i> , 2002 , 4, 111-23	2.6	44
5	Developmental regulatory genes and echinoderm evolution. <i>Systematic Biology</i> , 2000 , 49, 28-51	8.4	43
4	Rearing larvae of sea urchins and sea stars for developmental studies. <i>Methods in Molecular Biology</i> , 2000 , 135, 9-15	1.4	5
3	The origin and evolution of animal appendages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 5162-6	11.5	332
2	Radical alterations in the roles of homeobox genes during echinoderm evolution. <i>Nature</i> , 1997 , 389, 718-21	50.4	240
1	A single origin of animal excretory organs		1