Billie J Swalla

List of Publications by Year
in descending order

85	6,067	101543	74163
papers	citations	36 h-index	75 g-index

105	105	105	4789
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Magnitude of Global Marine Species Diversity. Current Biology, 2012, 22, 2189-2202.	3.9	797
2	The ctenophore genome and the evolutionary origins of neural systems. Nature, 2014, 510, 109-114.	27.8	606
3	The origin and evolution of animalâ€‰appendages. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 5162-5166.	7.1	402
4	Evolution of the chordate body plan: New insights from phylogenetic analyses of deuterostome phyla. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 4469-4474.	7.1	380
5	Evaluating Hypotheses of Deuterostome Phylogeny and Chordate Evolution with New LSU and SSU Ribosomal DNA Data. Molecular Biology and Evolution, 2002, 19, 762-776.	8.9	230
6	Global Diversity of Ascidiacea. PLoS ONE, 2011, 6, e20657.	2.5	220
7	Urochordates Are Monophyletic Within the Deuterostomes. Systematic Biology, 2000, 49, 52-64.	5.6	218
8	Deciphering deuterostome phylogeny: molecular, morphological and palaeontological perspectives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1557-1568.	4.0	213
9	Molecular phylogeny of the protochordates: chordate evolution. Canadian Journal of Zoology, 2005, 83, 24-33.	1.0	135
10	Phylogenomic Resolution of the Hemichordate and Echinoderm Clade. Current Biology, 2014, 24, 2827-2832.	3.9	117
11	Requirement of the Manx Gene for Expression of Chordate Features in a Tailless Ascidian Larva. Science, 1996, 274, 1205-1208.	12.6	109
12	Man is but a worm: Chordate origins. Genesis, 2008, 46, 605-613.	1.6	106
13	Building divergent body plans with similar genetic pathways. Heredity, 2006, 97, 235-243.	2.6	104
14	Coloniality has evolved once in Stolidobranch Ascidians. Integrative and Comparative Biology, 2006, 46, 255-268.	2.0	103
15	Evolution and Development of the Chordates: Collagen and Pharyngeal Cartilage. Molecular Biology and Evolution, 2006, 23, 541-549.	8.9	101
16	Evolution of alternate modes of development in ascidians. BioEssays, 1992, 14, 219-226.	2.5	94
17	ANISEED 2017: extending the integrated ascidian database to the exploration and evolutionary comparison of genome-scale datasets. Nucleic Acids Research, 2018, 46, D718-D725.	14.5	90
18	Multiple origins of anural development in ascidians inferred from rDNA sequences. Journal of Molecular Evolution, 1995, 40, 413-427.	1.8	89

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19	A molecular analysis of ascidian metamorphosis reveals activation of an innate immune response. Development (Cambridge), 2002, 129, 4739-4751.	2.5	83
20	The Hsp90 Capacitor, Developmental Remodeling, and Evolution: The Robustness of Gene Networks and the Curious Evolvability of Metamorphosis. Critical Reviews in Biochemistry and Molecular Biology, 2007, 42, 355-372.	5.2	81
21	Molecular phylogeny of hemichordata, with updated status of deep-sea enteropneusts. Molecular Phylogenetics and Evolution, 2009, 52, 17-24.	2.7	79
22	Interspecific hybridization between an anural and urodele ascidian: Differential expression of urodele features suggests multiple mechanisms control anural development. Developmental Biology, 1990, 142, 319-334.	2.0	73
23	Inhibition of limb chondrogenesis by fibronectin. Differentiation, 1984, 26, 42-48.	1.9	69
24	Evolution and development of budding by stem cells: Ascidian coloniality as a case study. Developmental Biology, 2012, 369, 151-162.	2.0	69
25	Divergent mechanisms regulate conserved cardiopharyngeal development and gene expression in distantly related ascidians. ELife, 2014, 3, e03728.	6.0	69
26	ANISEED 2015: a digital framework for the comparative developmental biology of ascidians. Nucleic Acids Research, 2016, 44, D808-D818.	14.5	68
27	Analysis of type II collagen RNA localization in chick wing buds by in situ hybridization. Developmental Biology, 1988, 125, 51-58.	2.0	62
28	Phylogenomics offers resolution of major tunicate relationships. Molecular Phylogenetics and Evolution, 2018, 121, 166-173.	2.7	56
29	The evolution of anural larvae in molgulid ascidians. Seminars in Cell and Developmental Biology, 2000, 11, 419-426.	5.0	55
30	A complement response may activate metamorphosis in the ascidian Boltenia villosa. Development Genes and Evolution, 2007, 217, 449-458.	0.9	52
31	Two distinct classes of prechondrogenic cell types in the embryonic limb bud. Developmental Biology, 1983, 97, 59-69.	2.0	51
32	Metamorphosis in solitary ascidians. Genesis, 2015, 53, 34-47.	1.6	51
33	Mechanism of an Evolutionary Change in Muscle Cell Differentiation in Ascidians with Different Modes of Development. Developmental Biology, 1996, 174, 379-392.	2.0	50
34	Vasa expression in a colonial ascidian, Botrylloides violaceus. Evolution & Development, 2007, 9, 165-177.	2.0	43
35	The Presence of a Functionally Tripartite Through-Gut in Ctenophora Has Implications for Metazoan Character Trait Evolution. Current Biology, 2016, 26, 2814-2820.	3.9	42
36	Evolution of the ascidian anural larva: evidence from embryos and molecules. Molecular Biology and Evolution, 1999, 16, 646-654.	8.9	40

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37	An evolutionary change in the muscle lineage of an anural ascidian embryo is restored by interspecific hybridization with a urodele ascidian. Developmental Biology, 1991, 145, 328-337.	2.0	38
38	Evolutionary loss of melanogenesis in the tunicate Molgula occulta. EvoDevo, 2017, 8, 11.	3.2	38
39	Anterior regeneration in the hemichordate Ptychodera flava. Developmental Dynamics, 2008, 237, 3222-3232.	1.8	35
40	The independence of myogenesis and chondrogenesis in micromass cultures of chick wing buds. Developmental Biology, 1986, 116, 31-38.	2.0	32
41	Heterochronic expression of an adult muscle actin gene during ascidian larval development. Genesis, 1994, 15, 51-63.	2.1	32
42	PCNA mRNA Has a 3â€² UTR Antisense to Yellow Crescent RNA and Is Localized in Ascidian Eggs and Embryos. Developmental Biology, 1996, 178, 23-34.	2.0	31
43	Factors necessary for restoring an evolutionary change in an anural ascidian embryo. Developmental Biology, 1992, 153, 194-205.	2.0	30
44	A Maternal RNA Localized in the Yellow Crescent Is Segregated to the Larval Muscle Cells during Ascidian Development. Developmental Biology, 1995, 170, 353-364.	2.0	30
45	Tunicates have unusual nuclear lamins with a large deletion in the carboxyterminal tail domain. Gene, 2000, 255, 317-325.	2.2	28
46	Biogeography of Phallusia nigra: Is It Really Black and White?. Biological Bulletin, 2015, 228, 52-64.	1.8	28
47	The Global Diversity of Hemichordata. PLoS ONE, 2016, 11, e0162564.	2.5	28
48	Head regeneration in hemichordates is not a strict recapitulation of development. Developmental Dynamics, 2016, 245, 1159-1175.	1.8	28
49	A new metazoan from the Vendian of the White Sea, Russia, with possible affinities to the ascidians. Paleontological Journal, 2012, 46, 1-11.	0.5	26
50	A morphological and genetic characterization of metamorphosis in the ascidian Boltenia villosa. Development Genes and Evolution, 2003, 213, 601-611.	0.9	25
51	Hemichordate Molecular Phylogeny Reveals a Novel Cold-Water Clade of Harrimaniid Acorn Worms. Biological Bulletin, 2013, 225, 194-204.	1.8	25
52	Mechanisms of gastrulation and tail formation in ascidians. Microscopy Research and Technique, 1993, 26, 274-284.	2.2	24
53	First Pacific record of the north Atlantic ascidian Molgula citrina â€“ bioinvasion or circumpolar distribution?. Aquatic Invasions, 2010, 5, 369-378.	1.6	24
54	Empowering 21st Century Biology. BioScience, 2010, 60, 923-930.	4.9	24

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55	p68, a DEAD-box RNA helicase, is expressed in chordate embryo neural and mesodermal tissues. The Journal of Experimental Zoology, 2000, 288, 193-204.	1.4	23
56	Phylogeography and reproductive variation of the poecilogonous polychaete<scp>B</scp>occardiaproboscidea(<scp>A</scp>nnelida:<scp>S</scp>pionidae) along the<scp>W</scp>est<scp>C</scp>oast of<scp>N</scp>orth<scp>A</scp>merica. Evolution & Development, 2011, 13, 489-503.	2.0	22
57	Ptychoderid Hemichordate Neurulation without a Notochord. Integrative and Comparative Biology, 2012, 52, 829-834.	2.0	22
58	Vestigial Brain Melanocyte Development During Embryogenesis of an Anural Ascidian. (anural) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Differentiation, 1992, 34, 17-25.	1.5	21
59	The myoplasm of ascidian eggs: a localized cytoskeletal domain with multiple roles in embryonic development. Seminars in Cell Biology, 1990, 1, 373-81.	3.4	21
60	A revisited phylogeography of Nautilus pompilius. Ecology and Evolution, 2016, 6, 4924-4935.	1.9	18
61	Brachyury expression in tailless Molgulid ascidian embryos. Evolution & Development, 2002, 4, 205-211.	2.0	17
62	Analysis of large scale expression sequenced tags (ESTs) from the anural ascidian, Molgula tectiformis. Developmental Biology, 2007, 307, 460-482.	2.0	17
63	Developmental mode influences diversification in ascidians. Biology Letters, 2013, 9, 20130068.	2.3	15
64	Morphological and molecular identification of Saccoglossus species (Hemichordata: Harrimaniidae) in the Pacific Northwest. Canadian Journal of Zoology, 2003, 81, 133-141.	1.0	14
65	Developmental significance of a cortical cytoskeletal domain in Chaetopterus eggs. Developmental Biology, 1985, 111, 434-450.	2.0	13
66	Procurement and Culture of Ascidian Embryos. Methods in Cell Biology, 2004, 74, 115-141.	1.1	13
67	An ankryin-like protein in ascidian eggs and its role in the evolution of direct development. Zygote, 1993, 1, 197-208.	1.1	12
68	Localization of ribosomal protein L5 mRNA in myoplasm during ascidian development. Genesis, 1996, 19, 258-267.	2.1	12
69	Addressing Grand Challenges In Organismal Biology: The Need For Synthesis. BioScience, 2014, 64, 1178-1187.	4.9	12
70	Expression of Tbx6 , a muscle lineage T-box gene, in the tailless embryo of the ascidian Molgula tectiformis. Development Genes and Evolution, 2002, 212, 354-356.	0.9	9
71	Systematics and the Evolution of Developmental Patterns. Systematic Biology, 2000, 49, 1-2.	5.6	8
72	Novel genes expressed differentially in ascidians with alternate modes of development. Development (Cambridge), 1993, 119, 307-18.	2.5	8

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73	Introduction to the Symposium: The Evolution of Development Patterns and Process. American Zoologist, 1998, 38, 591-592.	0.7	7
74	Getting a Head with Ptychodera flava Larval Regeneration. Biological Bulletin, 2018, 234, 152-164.	1.8	7
75	The Degenerate Tale of Ascidian Tails. Integrative and Comparative Biology, 2021, 61, 358-369.	2.0	7
76	Transitional chordates and vertebrate origins: Tunicates. Current Topics in Developmental Biology, 2021, 141, 149-171.	2.2	6
77	Future Tail Tales: A Forward-Looking, Integrative Perspective on Tail Research. Integrative and Comparative Biology, 2021, 61, 521-537.	2.0	6
78	Euro chordates: Ascidian community swims ahead. The 4th International Tunicate meeting in Villefranche sur Mer. Developmental Dynamics, 2008, 237, 1207-1213.	1.8	5
79	An Introduction to an Evolutionary Tail: EvoDevo, Structure, and Function of Post-Anal Appendages. Integrative and Comparative Biology, 2021, 61, 352-357.	2.0	5
80	A cis â€regulatory change underlying the motor neuronâ€specific loss of Ebf expression in immotile tunicate larvae. Evolution & Development, 2021, 23, 72-85.	2.0	4
81	DEVELOPMENT: Making Sense of Changing Animal Embryos. Science, 2002, 296, 2147-2148.	12.6	3
82	Molgula pugetiensis is a Pacific Tailless Ascidian Within the Roscovita Clade of Molgulids. Biological Bulletin, 2010, 219, 277-282.	1.8	2
83	BIO. Evolution & Development, 2009, 11, 136-138.	2.0	0
84	Boltenia embryos flash an orange crescent. Molecular Reproduction and Development, 2011, 78, 703-703.	2.0	0
85	High Time for Hair Cells: An Introduction to the Symposium on Sensory Hair Cells. Integrative and Comparative Biology, 2018, 58, 276-281.	2.0	0