William C Smith

List of Publications by Year
in descending order

54 papers	4,131 citations	218381 26 h-index	168136 53 g-index
60 all docs	60 docs citations	60 times ranked	2158 citing authors

#	Article	IF	Citations
1	Disruption of left-right axis specification in Ciona induces molecular, cellular, and functional defects in asymmetric brain structures. BMC Biology, 2021, 19, 141.	1.7	13
2	Fold Change Detection in Visual Processing. Frontiers in Neural Circuits, 2021, 15, 705161.	1.4	3
3	Misregulation of cell adhesion molecules in the Ciona neural tube closure mutant bugeye. Developmental Biology, 2021, 480, 14-24.	0.9	5
4	Tunicate gastrulation. Current Topics in Developmental Biology, 2020, 136, 219-242.	1.0	8
5	Antagonistic Inhibitory Circuits Integrate Visual and Gravitactic Behaviors. Current Biology, 2020, 30, 600-609.e2.	1.8	27
6	Parallel visual circuitry in a basal chordate. ELife, 2019, 8, .	2.8	34
7	Photoreceptor specialization and the visuomotor repertoire of the primitive chordate <i>Ciona</i>. Journal of Experimental Biology, 2018, 221, .	0.8	31
8	Cellular Processes of Notochord Formation. Advances in Experimental Medicine and Biology, 2018, 1029, 165-177.	0.8	6
9	A microRNA-mRNA expression network during oral siphon regeneration in Ciona. Development (Cambridge), 2017, 144, 1787-1797.	1.2	16
10	Membrane segmentation via active learning with deep networks. , 2016, , .		8
11	CellECT: cell evolution capturing tool. BMC Bioinformatics, 2016, 17, 88.	1.2	8
12	ACAM, a novel member of the neural IgCAM family, mediates anterior neural tube closure in a primitive chordate. Developmental Biology, 2016, 409, 288-296.	0.9	2
13	T-type Calcium Channel Regulation of Neural Tube Closure and EphrinA/EPHA Expression. Cell Reports, 2015, 13, 829-839.	2.9	37
14	Reciprocal and dynamic polarization of planar cell polarity core components and myosin. ELife, 2015, 4, e05361.	2.8	33
15	An organismal perspective on C. intestinalis development, origins and diversification. ELife, 2015, 4, .	2.8	17
16	Exploiting the Extraordinary Genetic Polymorphism of<i>Ciona</i>for Developmental Genetics with Whole Genome Sequencing. Genetics, 2014, 197, 49-59.	1.2	7
17	A one-dimensional model of PCP signaling: Polarized cell behavior in the notochord of the ascidian Ciona. Developmental Biology, 2014, 395, 120-130.	0.9	14
18	Whole-organ cell shape analysis reveals the developmental basis of ascidian notochord taper. Developmental Biology, 2013, 373, 281-289.	0.9	31

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19	A transiently expressed connexin is essential for anterior neural plate development in Ciona intestinalis. Development (Cambridge), 2013, 140, 147-155.	1.2	22
20	A Linear Program Formulation for the Segmentation of Ciona Membrane Volumes. Lecture Notes in Computer Science, 2013, 16, 444-451.	1.0	4
21	Segmentation of ascidian notochord cells in DIC timelapse images. Microscopy Research and Technique, 2011, 74, 727-734.	1.2	4
22	Ciona Genetics. Methods in Molecular Biology, 2011, 770, 401-422.	0.4	34
23	doublesex/mab3 related-1 (dmrt1) is essential for development of anterior neural plate derivatives in Ciona. Development (Cambridge), 2010, 137, 2197-2203.	1.2	57
24	Key steps in the morphogenesis of a cranial placode in an invertebrate chordate, the tunicate Ciona savignyi. Developmental Biology, 2010, 340, 134-144.	0.9	14
25	The ascidian mouth opening is derived from the anterior neuropore: Reassessing the mouth/neural tube relationship in chordate evolution. Developmental Biology, 2010, 344, 138-149.	0.9	53
26	<i>brachyury</i>null mutant-induced defects in juvenile ascidian endodermal organs. Development (Cambridge), 2009, 136, 35-39.	1.2	57
27	Tube formation by complex cellular processes in Ciona intestinalis notochord. Developmental Biology, 2009, 330, 237-249.	0.9	76
28	Ascidians and the Plasticity of the Chordate Developmental Program. Current Biology, 2008, 18, R620-R631.	1.8	112
29	The C. savignyi genetic map and its integration with the reference sequence facilitates insights into chordate genome evolution. Genome Research, 2008, 18, 1369-1379.	2.4	29
30	<i>chongmague</i>reveals an essential role for laminin-mediated boundary formation in chordate convergence and extension movements. Development (Cambridge), 2008, 135, 33-41.	1.2	80
31	Inverse Correlation of Population Similarity and Introduction Date for Invasive Ascidians. PLoS ONE, 2008, 3, e2552.	1.1	10
32	A conserved role for FGF signaling in chordate otic/atrial placode formation. Developmental Biology, 2007, 312, 245-257.	0.9	33
33	Ascidian notochord morphogenesis. Developmental Dynamics, 2007, 236, 1748-1757.	0.8	96
34	ADMP2 is essential for primitive blood and heart development in Xenopus. Developmental Biology, 2006, 299, 411-423.	0.9	15
35	Ascidian prickle Regulates Both Mediolateral and Anterior-Posterior Cell Polarity of Notochord Cells. Current Biology, 2005, 15, 79-85.	1.8	144
36	Did the first chordates organize without the organizer?. Trends in Genetics, 2005, 21, 506-510.	2.9	22

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37	Pigmentation in the sensory organs of the ascidian larva is essential for normal behavior. Journal of Experimental Biology, 2005, 208, 433-438.	0.8	60
38	Self- and Cross-Fertilization in the Solitary AscidianCiona savignyi. Biological Bulletin, 2005, 209, 107-112.	0.7	33
39	A functional cellulose synthase from ascidian epidermis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 986-991.	3.3	110
40	Culture of Adult Ascidians and Ascidian Genetics. Methods in Cell Biology, 2004, 74, 143-170.	0.5	31
41	Frimousse â€“ a spontaneous ascidian mutant with anterior ectodermal fate transformation. Current Biology, 2004, 14, R408-R410.	1.8	13
42	Generation ofCi-Brachyury-GFP stable transgenic lines in the ascidianCiona savignyi. Genesis, 2003, 35, 248-259.	0.8	59
43	The nodal target gene Xmenf is a component of an FGF-independent pathway of ventral mesoderm induction in Xenopus. Mechanisms of Development, 2002, 118, 45-56.	1.7	13
44	Pitx genes in Tunicates provide new molecular insight into the evolutionary origin of pituitary. Gene, 2002, 287, 107-113.	1.0	71
45	Revisions to theXenopus gastrula fate map: Implications for mesoderm induction and patterning. Developmental Dynamics, 2002, 225, 409-421.	0.8	53
46	Expression cloning in ascidians: isolation of a novel member of the asctacin protease family. Development Genes and Evolution, 2002, 212, 81-86.	0.4	7
47	An ascidian engrailed gene. Development Genes and Evolution, 2002, 212, 399-402.	0.4	18
48	Boundaries and Functional Domains in the Animal/Vegetal Axis of Xenopus Gastrula Mesoderm. Developmental Biology, 2001, 236, 465-477.	0.9	22
49	Developmental genetics in primitive chordates. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1573-1582.	1.8	32
50	FGF Signaling Restricts the Primary Blood Islands to Ventral Mesoderm. Developmental Biology, 2000, 228, 304-314.	0.9	40
51	A nodal-related gene defines a physical and functional domain within the Spemann organizer. Cell, 1995, 82, 37-46.	13.5	329
52	Secreted noggin protein mimics the Spemann organizer in dorsalizing Xenopus mesoderm. Nature, 1993, 361, 547-549.	13.7	349
53	Expression cloning of noggin, a new dorsalizing factor localized to the Spemann organizer in Xenopus embryos. Cell, 1992, 70, 829-840.	13.5	1,093
54	Injected Xwnt-8 RNA acts early in Xenopus embryos to promote formation of a vegetal dorsalizing center. Cell, 1991, 67, 753-765.	13.5	629