James Cuthbert Smith

List of Publications by Year
in descending order

117 papers	6,791 citations	71102 41 h-index	66911 78 g-index
122 all docs	122 docs citations	122 times ranked	8548 citing authors

#	Article	IF	Citations
1	Controlling morpholino experiments: don't stop making antisense. Development (Cambridge), 2008, 135, 1735-1743.	2.5	523
2	SIP1, a Novel Zinc Finger/Homeodomain Repressor, Interacts with Smad Proteins and Binds to 5â€²-CACCT Sequences in Candidate Target Genes. Journal of Biological Chemistry, 1999, 274, 20489-20498.	3.4	445
3	BRACHYURY and CDX2 Mediate BMP-Induced Differentiation of Human and Mouse Pluripotent Stem Cells into Embryonic and Extraembryonic Lineages. Cell Stem Cell, 2011, 9, 144-155.	11.1	340
4	Wise, a context-dependent activator and inhibitor of Wnt signalling. Development (Cambridge), 2003, 130, 4295-4305.	2.5	294
5	Placentation defects are highly prevalent in embryonic lethal mouse mutants. Nature, 2018, 555, 463-468.	27.8	287
6	Techniques and probes for the study ofXenopus tropicalis development. Developmental Dynamics, 2002, 225, 499-510.	1.8	240
7	T-box genes: what they do and how they do it. Trends in Genetics, 1999, 15, 154-158.	6.7	223
8	Titration of Four Replication Factors Is Essential for the <i>Xenopus laevis</i> Midblastula Transition. Science, 2013, 341, 893-896.	12.6	201
9	Targeting BMP signalling in cardiovascular disease and anaemia. Nature Reviews Cardiology, 2016, 13, 106-120.	13.7	193
10	Identification of the zebrafish maternal and paternal transcriptomes. Development (Cambridge), 2013, 140, 2703-2710.	2.5	169
11	Active cell migration drives the unilateral movements of the anterior visceral endoderm. Development (Cambridge), 2004, 131, 1157-1164.	2.5	159
12	Spatial and Temporal Patterns of Cell Division during Early Xenopus Embryogenesis. Developmental Biology, 2001, 229, 307-318.	2.0	151
13	Brachyury and the T-box genes. Current Opinion in Genetics and Development, 1997, 7, 474-480.	3.3	131
14	Induction and migration of the anterior visceral endoderm is regulated by the extra-embryonic ectoderm. Development (Cambridge), 2005, 132, 2513-2520.	2.5	131
15	Prdm1â€•and Sox6â€•mediated transcriptional repression specifies muscle fibre type in the zebrafish embryo. EMBO Reports, 2008, 9, 683-689.	4.5	119
16	Biochemical specificity of Xenopus notochord. Differentiation, 1985, 29, 109-115.	1.9	118
17	The Wnt/Î²-Catenin Pathway Posteriorizes Neural Tissue in Xenopus by an Indirect Mechanism Requiring FGF Signalling. Developmental Biology, 2001, 239, 148-160.	2.0	117
18	Defining a large set of full-length clones from a Xenopus tropicalis EST project. Developmental Biology, 2004, 271, 498-516.	2.0	111

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19	A gene regulatory network directed by zebrafish No tail accounts for its roles in mesoderm formation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3829-3834.	7.1	109
20	New insights into the maternal to zygotic transition. Development (Cambridge), 2014, 141, 3834-3841.	2.5	109
21	InÂVivo T-Box Transcription Factor Profiling Reveals Joint Regulation of Embryonic Neuromesodermal Bipotency. Cell Reports, 2013, 4, 1185-1196.	6.4	97
22	Metazoan Scc4 Homologs Link Sister Chromatid Cohesion to Cell and Axon Migration Guidance. PLoS Biology, 2006, 4, e242.	5.6	95
23	The DUF1669 domain of FAM83 family proteins anchor casein kinase 1 isoforms. Science Signaling, 2018, 11, .	3.6	88
24	High-resolution analysis of gene activity during the <i>Xenopus</i> mid-blastula transition. Development (Cambridge), 2014, 141, 1927-1939.	2.5	87
25	Nuclear accumulation of Smad complexes occurs only after the midblastula transition in Xenopus. Development (Cambridge), 2007, 134, 4209-4218.	2.5	86
26	An anterior signalling centre in Xenopus revealed by the homeobox gene XHex. Current Biology, 1999, 9, 946-S1.	3.9	83
27	Zebrafish promoter microarrays identify actively transcribed embryonic genes. Genome Biology, 2006, 7, R71.	9.6	80
28	Visualisation and Quantification of Morphogen Gradient Formation in the Zebrafish. PLoS Biology, 2009, 7, e1000101.	5.6	74
29	Functional Specificity of the Xenopus T-Domain Protein Brachyury Is Conferred by Its Ability to Interact with Smad1. Developmental Cell, 2005, 8, 599-610.	7.0	72
30	Control of vertebrate gastrulation: inducing signals and responding genes. Current Opinion in Genetics and Development, 1993, 3, 655-661.	3.3	70
31	Visualizing Long-Range Movement of the Morphogen Xnr2 in the Xenopus Embryo. Current Biology, 2004, 14, 1916-1923.	3.9	66
32	Deciphering the Mechanisms of Developmental Disorders (DMDD): a new programme for phenotyping embryonic lethal mice. DMM Disease Models and Mechanisms, 2013, 6, 562-6.	2.4	65
33	Targeted deletion of the novel cytoplasmic dynein mD2LIC disrupts the embryonic organiser, formation of the body axes and specification of ventral cell fates. Development (Cambridge), 2004, 131, 4999-5007.	2.5	62
34	Genomic Targets of Brachyury (T) in Differentiating Mouse Embryonic Stem Cells. PLoS ONE, 2012, 7, e33346.	2.5	62
35	Activin redux: specification of mesodermal pattern in Xenopus by graded concentrations of endogenous activin B. Development (Cambridge), 2004, 131, 4977-4986.	2.5	55
36	Refinement of gene expression patterns in the early Xenopusembryo. Development (Cambridge), 2004, 131, 4687-4696.	2.5	51

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37	A mechanism for the sharp transition of morphogen gradient interpretation in Xenopus. BMC Developmental Biology, 2007, 7, 47.	2.1	51
38	<i>no tail</i> integrates two modes of mesoderm induction. Development (Cambridge), 2010, 137, 1127-1135.	2.5	49
39	Identification of direct T-box target genes in the developing zebrafish mesoderm. Development (Cambridge), 2009, 136, 749-760.	2.5	48
40	XSIP1, a Xenopus zinc finger/homeodomain encoding gene highly expressed during early neural development. Mechanisms of Development, 2000, 94, 189-193.	1.7	46
41	USP15 targets ALK3/BMPR1A for deubiquitylation to enhance bone morphogenetic protein signalling. Open Biology, 2014, 4, 140065.	3.6	45
42	Maternal pluripotency factors initiate extensive chromatin remodelling to predefine first response to inductive signals. Nature Communications, 2019, 10, 4269.	12.8	45
43	XPACE4 is a localized pro-protein convertase required for mesoderm induction and the cleavage of specific TGFÎ² proteins in Xenopusdevelopment. Development (Cambridge), 2005, 132, 591-602.	2.5	43
44	Innate Immune Response and Off-Target Mis-splicing Are Common Morpholino-Induced Side Effects in Xenopus. Developmental Cell, 2018, 44, 597-610.e10.	7.0	43
45	Identification of Two Amino Acids in Activin A That Are Important for Biological Activity and Binding to the Activin Type II Receptors. Journal of Biological Chemistry, 1999, 274, 9821-9827.	3.4	40
46	Dynamic regulation of Brachyury expression in the amphibian embryo by XSIP1. Mechanisms of Development, 2002, 111, 37-46.	1.7	40
47	A Xenopus tropicalis oligonucleotide microarray works across species using RNA from Xenopus laevis. Mechanisms of Development, 2005, 122, 355-363.	1.7	36
48	Transcriptional regulation of mesendoderm formation in Xenopus. Seminars in Cell and Developmental Biology, 2006, 17, 99-109.	5.0	36
49	The Midblastula Transition Defines the Onset of Y RNA-Dependent DNA Replication in Xenopus laevis. Molecular and Cellular Biology, 2011, 31, 3857-3870.	2.3	36
50	Chk1 Inhibition of the Replication Factor Drf1 Guarantees Cell-Cycle Elongation at the Xenopus laevis Mid-blastula Transition. Developmental Cell, 2017, 42, 82-96.e3.	7.0	36
51	Protein associated with SMAD1 (PAWS1/FAM83G) is a substrate for type I bone morphogenetic protein receptors and modulates bone morphogenetic protein signalling. Open Biology, 2014, 4, 130210.	3.6	35
52	Identifying transcriptional targets. Genome Biology, 2004, 5, 210.	9.6	34
53	Mammalian embryo comparison identifies novel pluripotency genes associated with the naÃ¯ve or primed state. Biology Open, 2018, 7, .	1.2	32
54	CVAK104 is a Novel Regulator of Clathrin-mediated SNARE Sorting. Traffic, 2007, 8, 893-903.	2.7	29

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55	Saracatinib is an efficacious clinical candidate for fibrodysplasia ossificans progressiva. JCI Insight, 2021, 6, .	5.0	29
56	Highly variable penetrance of abnormal phenotypes in embryonic lethal knockout mice. Wellcome Open Research, 2016, 1, 1.	1.8	29
57	TheXenopus platelet-derived growth factor Î± receptor: cDNA Cloning and demonstration that mesoderm induction establishes the lineage-specific pattern of ligand and receptor gene expression. Genesis, 1993, 14, 185-193.	2.1	27
58	Characterizing Embryonic Gene Expression Patterns in the Mouse Using Nonredundant Sequence-Based Selection. Genome Research, 2003, 13, 2609-2620.	5.5	27
59	<scp>PAWS</scp> 1 controls Wnt signalling through association with casein kinase 1Î±. EMBO Reports, 2018, 19, .	4.5	27
60	Molecular components of the endoderm specification pathway inXenopus tropicalis. Developmental Dynamics, 2003, 226, 118-127.	1.8	26
61	FAM83G/PAWS1 controls cytoskeletal dynamics and cell migration through association with the SH3 adaptor CD2AP. Journal of Cell Science, 2018, 131, .	2.0	26
62	Forming and Interpreting Gradients in the Early Xenopus Embryo. Cold Spring Harbor Perspectives in Biology, 2009, 1, a002477-a002477.	5.5	25
63	The aryl hydrocarbon receptor controls cyclin O to promote epithelial multiciliogenesis. Nature Communications, 2016, 7, 12652.	12.8	23
64	Xnrs and Activin Regulate Distinct Genes during Xenopus Development: Activin Regulates Cell Division. PLoS ONE, 2007, 2, e213.	2.5	22
65	Regulation of apoptosis in theXenopus embryo by Bix3. Development (Cambridge), 2003, 130, 4611-4622.	2.5	20
66	The Spatiotemporal Control of Zygotic Genome Activation. IScience, 2019, 16, 485-498.	4.1	20
67	Vulnerability of progeroid smooth muscle cells to biomechanical forces is mediated by MMP13. Nature Communications, 2020, 11, 4110.	12.8	20
68	Mix.1/2-dependent control of FGF availability during gastrulation is essential for pronephros development in Xenopus. Developmental Biology, 2008, 320, 351-365.	2.0	19
69	Rab5-mediated endocytosis of activin is not required for gene activation or long-range signalling in<i>Xenopus</i>. Development (Cambridge), 2009, 136, 2803-2813.	2.5	19
70	How to tell a cell where it is. Nature, 1996, 381, 367-368.	27.8	18
71	The ARID domain protein dril1 is necessary for TGFÎ² signaling in Xenopus embryos. Developmental Biology, 2005, 278, 542-559.	2.0	17
72	Common and distinct transcriptional signatures of mammalian embryonic lethality. Nature Communications, 2019, 10, 2792.	12.8	16

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73	Highly variable penetrance of abnormal phenotypes in embryonic lethal knockout mice. Wellcome Open Research, 0, 1, 1.	1.8	16
74	Zebrafish atoh8 mutants do not recapitulate morpholino phenotypes. PLoS ONE, 2017, 12, e0171143.	2.5	16
75	Visualizing protein interactions by bimolecular fluorescence complementation in Xenopus. Methods, 2008, 45, 192-195.	3.8	15
76	The novel Smad-interacting protein Smicl regulates Chordinexpression in the Xenopus embryo. Development (Cambridge), 2005, 132, 4575-4586.	2.5	14
77	Evading the annotation bottleneck: using sequence similarity to search non-sequence gene data. BMC Bioinformatics, 2008, 9, 442.	2.6	14
78	A divergent Tbx6-related gene and Tbx6 are both required for neural crest and intermediate mesoderm development in Xenopus. Developmental Biology, 2010, 340, 75-87.	2.0	13
79	Investigating Physical Chromatin Associations Across the <i>Xenopus</i> Genome by Chromatin Immunoprecipitation. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080614.	0.3	13
80	Genome-wide Snapshot of Chromatin Regulators and States in Xenopus Embryos by ChIP-Seq. Journal of Visualized Experiments, 2015, , .	0.3	13
81	Comparison of Zebrafish tmem88a mutant and morpholino knockdown phenotypes. PLoS ONE, 2017, 12, e0172227.	2.5	13
82	Angles on activin's absence. Nature, 1995, 374, 311-312.	27.8	11
83	KazrinA is required for axial elongation and epidermal integrity in <i>Xenopus tropicalis</i>. Developmental Dynamics, 2008, 237, 1718-1725.	1.8	11
84	A Short Loop on the ALK-2 and ALK-4 Activin Receptors Regulates Signaling Specificity but Cannot Account for All Their Effects on EarlyXenopus Development. Journal of Biological Chemistry, 1999, 274, 7929-7935.	3.4	10
85	Introduction. Calcium signals and developmental patterning. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1307-1310.	4.0	10
86	Loss of REEP4 causes paralysis of the Xenopus embryo. International Journal of Developmental Biology, 2009, 53, 37-43.	0.6	9
87	Pathogenic FAM83G palmoplantar keratoderma mutations inhibit the PAWS1:CK1Î± association and attenuate Wnt signalling.. Wellcome Open Research, 0, 4, 133.	1.8	9
88	Whither <i>Development</i> and developmental biology?. Development (Cambridge), 2008, 135, 1-1.	2.5	7
89	Dissecting and Culturing Animal Cap Explants. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot097329.	0.3	7
90	Wholemount In Situ Hybridization to Xenopus Embryos. Methods in Molecular Biology, 2008, 461, 697-702.	0.9	7

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91	Pointing a digit at digitised JEEM. Development (Cambridge), 2008, 135, 2339-2339.	2.5	6
92	Smicl is required for phosphorylation of RNA polymerase II and affects 3â€²-end processing of RNA at the midblastula transition in Xenopus. Development (Cambridge), 2009, 136, 3451-3461.	2.5	6
93	Efficient Preparation of High-Complexity ChIP-Seq Profiles from Early Xenopus Embryos. Methods in Molecular Biology, 2017, 1507, 23-42.	0.9	6
94	An Overview of Xenopus Development. Methods in Molecular Biology, 2008, 461, 385-394.	0.9	6
95	Knockdown of Laminin gamma-3 (Lamc3) impairs motoneuron guidance in the zebrafish embryo. Wellcome Open Research, 2017, 2, 111.	1.8	6
96	Pathogenic FAM83G palmoplantar keratoderma mutations inhibit the PAWS1:CK1Î± association and attenuate Wnt signalling.. Wellcome Open Research, 2019, 4, 133.	1.8	6
97	FAM83F regulates canonical Wnt signalling through an interaction with CK1Î±. Life Science Alliance, 2021, 4, e202000805.	2.8	6
98	Lewis Wolpert (1929-2021). Development (Cambridge), 2021, 148, .	2.5	5
99	Ch-ch-ch-ch-changes.... Development (Cambridge), 2003, 130, 1-1.	2.5	4
100	Neurotrophin Receptor Homolog (NRH1) proteins regulate mesoderm formation and apoptosis during early Xenopus development. Developmental Biology, 2006, 300, 554-569.	2.0	4
101	Mesoderm Induction Assays. Methods in Molecular Biology, 2008, 461, 395-404.	0.9	4
102	Eps15R is required for bone morphogenetic protein signalling and differentially compartmentalizes with Smad proteins. Open Biology, 2012, 2, 120060.	3.6	3
103	Mapping Chromatin Features of Xenopus Embryos. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot100263.	0.3	3
104	Visualizing Long-Range Movement of the Morphogen Xnr2 in the Xenopus Embryo. Current Biology, 2004, 14, 2312.	3.9	2
105	Development in 2007: new developments and sad goodbyes. Development (Cambridge), 2007, 134, 1-1.	2.5	1
106	The accidental biologist: an interview with Jim Smith. DMM Disease Models and Mechanisms, 2010, 3, 11-14.	2.4	1
107	Loss of Xenopus tropicalis EMSY causes impairment of gastrulation and upregulation of p53. New Biotechnology, 2011, 28, 334-341.	4.4	1
108	The Innate Immune Response of Frog Embryos to Antisense Morpholino Oligomers Depends on Developmental Stage, GC Content and Dose. Developmental Cell, 2019, 49, 506-507.	7.0	1

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109	Personal observations on COVID-19 and the conduct and application of biomedical science. Interface Focus, 2021, 11, 20210053.	3.0	1
110	The Spatio-Temporal Control of Zygotic Genome Activation. SSRN Electronic Journal, 0, , .	0.4	1
111	Positional signalling: where are we now?. Trends in Genetics, 1989, 5, 165-166.	6.7	0
112	Mesoderm patterning and tenascin regionalization in Xenopus laevis embryos. Biology of the Cell, 1992, 76, 216-216.	2.0	0
113	Development and `open access'. Development (Cambridge), 2004, 131, 1-1.	2.5	0
114	Development: moving on in 2006. Development (Cambridge), 2006, 133, 1-2.	2.5	0
115	Stem cells in Development: new editor, renewed commitment. Development (Cambridge), 2006, 133, 2449-2449.	2.5	0
116	Hello goodbye. Development (Cambridge), 2009, 136, 4065-4065.	2.5	0
117	Transcriptomics of dorso-ventral axis determination in Xenopus tropicalis. Developmental Biology, 2018, 439, 69-79.	2.0	0