

# Andrew C Oates

## List of Publications by Year in descending order

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83  
papers

6,522  
citations

71102

41  
h-index

71685

76  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Left-right symmetry of zebrafish embryos requires somite surface tension. <i>Nature</i> , 2022, 605, 516-521.	27.8	19
2	From local resynchronization to global pattern recovery in the zebrafish segmentation clock. <i>ELife</i> , 2021, 10, .	6.0	10
3	Theory of time delayed genetic oscillations with external noisy regulation. <i>New Journal of Physics</i> , 2021, 23, 033030.	2.9	10
4	Instruments of change for academic tool development. <i>Nature Physics</i> , 2021, 17, 421-424.	16.7	4
5	Towards a physical understanding of developmental patterning. <i>Nature Reviews Genetics</i> , 2021, 22, 518-531.	16.3	15
6	What are you synching about? Emerging complexity of Notch signaling in the segmentation clock. <i>Developmental Biology</i> , 2020, 460, 40-54.	2.0	46
7	Waiting on the Fringe: cell autonomy and signaling delays in segmentation clocks. <i>Current Opinion in Genetics and Development</i> , 2020, 63, 61-70.	3.3	20
8	Patterning and mechanics of somite boundaries in zebrafish embryos. <i>Seminars in Cell and Developmental Biology</i> , 2020, 107, 170-178.	5.0	22
9	Embryonic lateral inhibition as optical modes: An analytical framework for mesoscopic pattern formation. <i>Physical Review E</i> , 2019, 99, 042417.	2.1	6
10	Detection of mRNA by Whole Mount in situ Hybridization and DNA Extraction for Genotyping of Zebrafish Embryos. <i>Bio-protocol</i> , 2019, 9, e3193.	0.4	11
11	Segmentation of the zebrafish axial skeleton relies on notochord sheath cells and not on the segmentation clock. <i>ELife</i> , 2018, 7, .	6.0	61
12	Delta-Notch signalling in segmentation. <i>Arthropod Structure and Development</i> , 2017, 46, 429-447.	1.4	50
13	The Sweetness of Embryonic Elongation and Differentiation. <i>Developmental Cell</i> , 2017, 40, 323-324.	7.0	2
14	Mechanochemical coupling and developmental pattern formation. <i>Current Opinion in Systems Biology</i> , 2017, 5, 104-111.	2.6	12
15	Small molecule screen in embryonic zebrafish using modular variations to target segmentation. <i>Nature Communications</i> , 2017, 8, 1901.	12.8	29
16	A framework for quantification and physical modeling of cell mixing applied to oscillator synchronization in vertebrate somitogenesis. <i>Biology Open</i> , 2017, 6, 1235-1244.	1.2	11
17	Faster embryonic segmentation through elevated Delta-Notch signalling. <i>Nature Communications</i> , 2016, 7, 11861.	12.8	51
18	Sequential pattern formation governed by signaling gradients. <i>Physical Biology</i> , 2016, 13, 05LT03.	1.8	15

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19	Timing by rhythms: Daily clocks and developmental rulers. <i>Development Growth and Differentiation</i> , 2016, 58, 43-58.	1.5	27
20	Object Segmentation and Ground Truth in 3D Embryonic Imaging. <i>PLoS ONE</i> , 2016, 11, e0150853.	2.5	20
21	Persistence, period and precision of autonomous cellular oscillators from the zebrafish segmentation clock. <i>ELife</i> , 2016, 5, .	6.0	98
22	Tbx6, Mesp-b and Ripply1 regulate the onset of skeletal myogenesis in zebrafish. <i>Development (Cambridge)</i> , 2015, 142, 1159-68.	2.5	47
23	Force transmission during adhesion-independent migration. <i>Nature Cell Biology</i> , 2015, 17, 524-529.	10.3	279
24	Continuum theory of gene expression waves during vertebrate segmentation. <i>New Journal of Physics</i> , 2015, 17, 093042.	2.9	29
25	Generation of Dispersed Presomitic Mesoderm Cell Cultures for Imaging of the Zebrafish Segmentation Clock in Single Cells. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	6
26	Wnt-regulated dynamics of positional information in zebrafish somitogenesis. <i>Development (Cambridge)</i> , 2014, 141, 1381-1391.	2.5	59
27	Chevron formation of the zebrafish muscle segments. <i>Journal of Experimental Biology</i> , 2014, 217, 3870-82.	1.7	18
28	A Doppler effect in embryonic pattern formation. <i>Science</i> , 2014, 345, 222-225.	12.6	121
29	Interplay between intercellular signaling and cell movement in development. <i>Seminars in Cell and Developmental Biology</i> , 2014, 35, 66-72.	5.0	29
30	Nonlinearity arising from noncooperative transcription factor binding enhances negative feedback and promotes genetic oscillations. <i>Papers in Physics</i> , 2014, 6, .	0.2	5
31	Opening a can of centipedes: new insights into mechanisms of body segmentation. <i>BMC Biology</i> , 2013, 11, 116.	3.8	2
32	Dynamics of mobile coupled phase oscillators. <i>Physical Review E</i> , 2013, 87, .	2.1	41
33	Topology and Dynamics of the Zebrafish Segmentation Clock Core Circuit. <i>PLoS Biology</i> , 2012, 10, e1001364.	5.6	108
34	Optimal cellular mobility for synchronization arising from the gradual recovery of intercellular interactions. <i>Physical Biology</i> , 2012, 9, 036006.	1.8	23
35	Collective Modes of Coupled Phase Oscillators with Delayed Coupling. <i>Physical Review Letters</i> , 2012, 108, 204101.	7.8	52
36	Breathe in and Straighten Your Back: Hypoxia, Notch, and Scoliosis. <i>Cell</i> , 2012, 149, 255-256.	28.9	5

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37	The segmentation clock: inherited trait or universal design principle?. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 600-606.	3.3	43
38	Computational Approaches to Developmental Patterning. <i>Science</i> , 2012, 336, 187-191.	12.6	83
39	Patterning embryos with oscillations: structure, function and dynamics of the vertebrate segmentation clock. <i>Development (Cambridge)</i> , 2012, 139, 625-639.	2.5	326
40	Control of endogenous gene expression timing by introns. <i>Genome Biology</i> , 2011, 12, 107.	9.6	13
41	Evolutionary plasticity of segmentation clock networks. <i>Development (Cambridge)</i> , 2011, 138, 2783-2792.	2.5	166
42	Enhanced SnapShot: The Segmentation Clock. <i>Cell</i> , 2011, 145, 800-800.e1.	28.9	5
43	Live transgenic reporters of the vertebrate embryo's Segmentation Clock. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 600-605.	3.3	16
44	Boundary formation and maintenance in tissue development. <i>Nature Reviews Genetics</i> , 2011, 12, 43-55.	16.3	301
45	Segment Number and Axial Identity in a Segmentation Clock Period Mutant. <i>Current Biology</i> , 2010, 20, 1254-1258.	3.9	94
46	Intercellular Coupling Regulates the Period of the Segmentation Clock. <i>Current Biology</i> , 2010, 20, 1244-1253.	3.9	149
47	Coilin-dependent snRNP assembly is essential for zebrafish embryogenesis. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 403-409.	8.2	145
48	Delayed coupling theory of vertebrate segmentation. <i>HFSP Journal</i> , 2009, 3, 55-66.	2.5	134
49	Quantitative approaches in developmental biology. <i>Nature Reviews Genetics</i> , 2009, 10, 517-530.	16.3	149
50	15-PO18 A phase-ordered microarray screen for cyclic genes in zebrafish reveals her genes as the conserved core of the somitogenesis clock. <i>Mechanisms of Development</i> , 2009, 126, S252-S253.	1.7	2
51	Simple and Efficient Transgenesis with Meganuclease Constructs in Zebrafish. <i>Methods in Molecular Biology</i> , 2009, 546, 117-130.	0.9	66
52	Multiple Embryo Time-Lapse Imaging of Zebrafish Development. <i>Methods in Molecular Biology</i> , 2009, 546, 243-254.	0.9	22
53	Dynamics of zebrafish somitogenesis. <i>Developmental Dynamics</i> , 2008, 237, 545-553.	1.8	131
54	Coordination of symmetric cyclic gene expression during somitogenesis by Suppressor of Hairless involves regulation of retinoic acid catabolism. <i>Developmental Biology</i> , 2007, 301, 388-403.	2.0	43

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55	Completing the set of h/E(spl) cyclic genes in zebrafish: her12 and her15 reveal novel modes of expression and contribute to the segmentation clock. <i>Developmental Biology</i> , 2007, 304, 615-632.	2.0	47
56	Genomic regulatory blocks encompass multiple neighboring genes and maintain conserved synteny in vertebrates. <i>Genome Research</i> , 2007, 17, 545-555.	5.5	312
57	Synchrony Dynamics During Initiation, Failure, and Rescue of the Segmentation Clock. <i>Science</i> , 2007, 317, 1911-1915.	12.6	233
58	Analysis and visualization of cell movement in the developing zebrafish brain. <i>Developmental Dynamics</i> , 2006, 235, spc1-spc1.	1.8	0
59	Cooperative function of deltaC and her7 in anterior segment formation. <i>Developmental Biology</i> , 2005, 280, 133-149.	2.0	49
60	Generation of segment polarity in the paraxial mesoderm of the zebrafish through a T-box-dependent inductive event. <i>Developmental Biology</i> , 2005, 283, 204-214.	2.0	23
61	A Crucial Interaction between Embryonic Red Blood Cell Progenitors and Paraxial Mesoderm Revealed in spadetail Embryos. <i>Developmental Cell</i> , 2004, 7, 251-262.	7.0	21
62	Zebrafish gcm2 is required for gill filament budding from pharyngeal ectoderm. <i>Developmental Biology</i> , 2004, 276, 508-522.	2.0	55
63	Characterization of embryonic globin genes of the zebrafish. <i>Developmental Biology</i> , 2003, 255, 48-61.	2.0	150
64	Zebrafish SPI-1 (PU.1) Marks a Site of Myeloid Development Independent of Primitive Erythropoiesis: Implications for Axial Patterning. <i>Developmental Biology</i> , 2002, 246, 274-295.	2.0	193
65	<i>Hairy/E(spl)-related (Her)</i> genes are central components of the segmentation oscillator and display redundancy with the Delta/Notch signaling pathway in the formation of anterior segmental boundaries in the zebrafish. <i>Development (Cambridge)</i> , 2002, 129, 2929-2946.	2.5	255
66	<i>Hairy/E(spl)-related (Her)</i> genes are central components of the segmentation oscillator and display redundancy with the Delta/Notch signaling pathway in the formation of anterior segmental boundaries in the zebrafish. <i>Development (Cambridge)</i> , 2002, 129, 2929-46.	2.5	84
67	Molecular cloning, genetic mapping, and expression analysis of four zebrafish <i>c/ebp</i> genes. <i>Gene</i> , 2001, 281, 43-51.	2.2	56
68	A novel myeloid-restricted zebrafish CCAAT/enhancer-binding protein with a potent transcriptional activation domain. <i>Blood</i> , 2001, 97, 2611-2617.	1.4	41
69	The zebrafish <i>klf</i> gene family. <i>Blood</i> , 2001, 98, 1792-1801.	1.4	98
70	Additional hox clusters in the zebrafish: divergent expression patterns belie equivalent activities of duplicate hoxB5 genes. <i>Evolution &amp; Development</i> , 2001, 3, 127-144.	2.0	60
71	Morphologic and functional characterization of granulocytes and macrophages in embryonic and adult zebrafish. <i>Blood</i> , 2001, 98, 3087-3096.	1.4	103
72	Too Much Interference: Injection of Double-Stranded RNA Has Nonspecific Effects in the Zebrafish Embryo. <i>Developmental Biology</i> , 2000, 224, 20-28.	2.0	137

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73	tbx20 , a new vertebrate T-box gene expressed in the cranial motor neurons and developing cardiovascular structures in zebrafish. <i>Mechanisms of Development</i> , 2000, 95, 253-258.	1.7	80
74	Genomic Structure and Expression of the Mouse Growth Factor Receptor Related to Tyrosine Kinases (Ryk). <i>Journal of Biological Chemistry</i> , 1999, 274, 7379-7390.	3.4	24
75	Zebrafishstat3 is expressed in restricted tissues during embryogenesis andstat1 rescues cytokine signaling in aSTAT1-deficient human cell line. <i>Developmental Dynamics</i> , 1999, 215, 352-370.	1.8	105
76	An early developmental role for Eph-ephrin interaction during vertebrate gastrulation. <i>Mechanisms of Development</i> , 1999, 83, 77-94.	1.7	59
77	Positional cloning of the zebrafish sauternes gene: a model for congenital sideroblastic anaemia. <i>Nature Genetics</i> , 1998, 20, 244-250.	21.4	239
78	Embryonic expression and activity of doughnut, a second RYK homolog in Drosophila. <i>Mechanisms of Development</i> , 1998, 78, 165-169.	1.7	21
79	Biomolecular Interaction Analysis of IFN $\beta$ -Induced Signaling Events in Whole-Cell Lysates: Prevalence of Latent STAT1 in High-Molecular Weight Complexes. <i>Growth Factors</i> , 1998, 16, 39-51.	1.7	52
80	Sampling the Genomic Pool of Protein Tyrosine Kinase Genes Using the Polymerase Chain Reaction with Genomic DNA. <i>Biochemical and Biophysical Research Communications</i> , 1998, 249, 660-667.	2.1	7
81	TheclocheandspadetailGenes Differentially Affect Hematopoiesis and Vasculogenesis. <i>Developmental Biology</i> , 1998, 197, 248-269.	2.0	467
82	Distinct Subdomains of the EphA3 Receptor Mediate Ligand Binding and Receptor Dimerization. <i>Journal of Biological Chemistry</i> , 1998, 273, 20228-20237.	3.4	90
83	gp130-mediated Signal Transduction in Embryonic Stem Cells Involves Activation of Jak and Ras/Mitogen-activated Protein Kinase Pathways. <i>Journal of Biological Chemistry</i> , 1996, 271, 30136-30143.	3.4	133