

Andrew L. Miller

List of Publications by Year in descending order

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51
papers

1,254
citations

430874

18
h-index

377865

34
g-index

52
all docs

52
docs citations

52
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium signalling during embryonic development. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 539-551.	37.0	195
2	Organization and function of microfilaments during late epiboly in zebrafish embryos. <i>Developmental Dynamics</i> , 2004, 231, 313-323.	1.8	108
3	Localized Calcium Transients Accompany Furrow Positioning, Propagation, and Deepening during the Early Cleavage Period of Zebrafish Embryos. <i>Developmental Biology</i> , 1997, 192, 78-92.	2.0	100
4	Ca ²⁺ signaling and early embryonic patterning during the Blastula and Gastrula Periods of Zebrafish and <i>Xenopus</i> development. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1192-1208.	4.1	61
5	Calcium signaling orchestrates glioblastoma development: Facts and conjunctures. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1447-1459.	4.1	60
6	On the mechanism of ooplasmic segregation in single-cell zebrafish embryos. <i>Development Growth and Differentiation</i> , 2000, 42, 29-40.	1.5	46
7	Calcium transients triggered by planar signals induce the expression of ZIC3 gene during neural induction in <i>Xenopus</i> . <i>Developmental Biology</i> , 2003, 261, 381-390.	2.0	46
8	Visualization, characterization and modulation of calcium signaling during the development of slow muscle cells in intact zebrafish embryos. <i>International Journal of Developmental Biology</i> , 2011, 55, 153-174.	0.6	46
9	Integrated transcriptomic and regulatory network analyses identify microRNA-200c as a novel repressor of human pluripotent stem cell-derived cardiomyocyte differentiation and maturation. <i>Cardiovascular Research</i> , 2018, 114, 894-906.	3.8	44
10	Calcium transients and neural induction in vertebrates. <i>Cell Calcium</i> , 2005, 37, 375-385.	2.4	41
11	Correlation between profile of ion-current circulation and root development. <i>Physiologia Plantarum</i> , 1989, 75, 102-108.	5.2	39
12	The role of Ca ²⁺ signaling on the self-renewal and neural differentiation of embryonic stem cells (ESCs). <i>Cell Calcium</i> , 2016, 59, 67-74.	2.4	34
13	Multiple roles of the furrow deepening Ca ²⁺ transient during cytokinesis in zebrafish embryos. <i>Developmental Biology</i> , 2008, 316, 228-248.	2.0	33
14	Two-Pore Channel 2 activity is required for slow muscle cell-generated Ca ²⁺ signaling during myogenesis in intact zebrafish. <i>International Journal of Developmental Biology</i> , 2015, 59, 313-325.	0.6	30
15	Calcium signalling during neural induction in <i>Xenopus laevis</i> embryos. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1371-1375.	4.0	29
16	Establishment of a transitory dorsal-biased window of localized Ca ²⁺ signaling in the superficial epithelium following the mid-blastula transition in zebrafish embryos. <i>Developmental Biology</i> , 2009, 327, 143-157.	2.0	22
17	Ca ²⁺ release via two-pore channel type 2 (TPC2) is required for slow muscle cell myofibrillogenesis and myotomal patterning in intact zebrafish embryos. <i>Developmental Biology</i> , 2017, 425, 109-129.	2.0	22
18	Molecular Insights into the Coding Region Determinant-binding Protein-RNA Interaction through Site-directed Mutagenesis in the Heterogeneous Nuclear Ribonucleoprotein-K-homology Domains. <i>Journal of Biological Chemistry</i> , 2015, 290, 625-639.	3.4	21

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19	Ca ²⁺ coding and decoding strategies for the specification of neural and renal precursor cells during development. <i>Cell Calcium</i> , 2016, 59, 75-83.	2.4	21
20	Visualization of stochastic Ca ²⁺ signals in the formed somites during the early segmentation period in intact, normally developing zebrafish embryos. <i>Development Growth and Differentiation</i> , 2009, 51, 617-637.	1.5	19
21	Necessary role for intracellular Ca ²⁺ transients in initiating the apical-basolateral thinning of enveloping layer cells during the early blastula period of zebrafish development. <i>Development Growth and Differentiation</i> , 2011, 53, 679-696.	1.5	17
22	CD38 Is Required for Neural Differentiation of Mouse Embryonic Stem Cells by Modulating Reactive Oxygen Species. <i>Stem Cells</i> , 2015, 33, 2664-2673.	3.2	17
23	Inhibition of SOCE disrupts cytokinesis in zebrafish embryos via inhibition of cleavage furrow deepening. <i>International Journal of Developmental Biology</i> , 2015, 59, 289-301.	0.6	15
24	Dual Functional Roles of Molecular Beacon as a MicroRNA Detector and Inhibitor. <i>Journal of Biological Chemistry</i> , 2017, 292, 3568-3580.	3.4	14
25	Retrospective on the development of aequorin and aequorin-based imaging to visualize changes in intracellular free [Ca ²⁺]. <i>Molecular Reproduction and Development</i> , 2015, 82, 563-586.	2.0	13
26	Calcium fluxes at the bone/plasma interface: Acute effects of parathyroid hormone (PTH) and targeted deletion of PTH/PTH-related peptide (PTHrP) receptor in the osteocytes. <i>Bone</i> , 2018, 116, 135-143.	2.9	13
27	Role of Two-Pore Channels in Embryonic Development and Cellular Differentiation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a035170.	5.5	13
28	Inhibition of stored Ca ²⁺ release disrupts convergence-related cell movements in the lateral intermediate mesoderm resulting in abnormal positioning and morphology of the pronephric anlagen in intact zebrafish embryos. <i>Development Growth and Differentiation</i> , 2009, 51, 429-442.	1.5	11
29	SOCE proteins, STIM1 and Orai1, are localized to the cleavage furrow during cytokinesis of the first and second cell division cycles in zebrafish embryos. <i>Zygote</i> , 2016, 24, 880-889.	1.1	10
30	TRPC3 is required for the survival, pluripotency and neural differentiation of mouse embryonic stem cells (mESCs). <i>Science China Life Sciences</i> , 2018, 61, 253-265.	4.9	10
31	TPC2-mediated Ca ²⁺ signaling is required for the establishment of synchronized activity in developing zebrafish primary motor neurons. <i>Developmental Biology</i> , 2018, 438, 57-68.	2.0	10
32	Characterization of ADP-ribosyl cyclase 1-like (ARC1-like) activity and NAADP signaling during slow muscle cell development in zebrafish embryos. <i>Developmental Biology</i> , 2019, 445, 211-225.	2.0	10
33	Identification of Ca ²⁺ signaling components in neural stem/progenitor cells during differentiation into neurons and glia in intact and dissociated zebrafish neurospheres. <i>Science China Life Sciences</i> , 2018, 61, 1352-1368.	4.9	9
34	Microinjecting Holo-Aequorin into Dechorionated and Intact Zebrafish Embryos. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot072967-pdb.prot072967.	0.3	8
35	Aequorin-based genetic approaches to visualize Ca ²⁺ signaling in developing animal systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1160-1168.	2.4	7
36	Assessing the ability of zebrafish scales to contribute to the short-term homeostatic regulation of [Ca ²⁺] in the extracellular fluid during calcemic challenges. <i>Fisheries Science</i> , 2019, 85, 943-959.	1.6	7

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37	TPC2-mediated Ca ²⁺ signaling is required for axon extension in caudal primary motor neurons in zebrafish embryos. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	7
38	<i>Polygoni multiflori radix</i> extracts inhibit SARS-CoV-2 pseudovirus entry in HEK293T cells and zebrafish larvae. <i>Phytomedicine</i> , 2022, 102, 154154.	5.3	6
39	Morphometric Analysis of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes: Determining the Maturation State of a Population by Quantifying Parameters in Individual Cells. <i>Stem Cells International</i> , 2015, 2015, 1-13.	2.5	5
40	<i>Trpc1</i> as the Missing Link Between the Bmp and Ca ²⁺ Signalling Pathways During Neural Specification in Amphibians. <i>Scientific Reports</i> , 2019, 9, 16049.	3.3	5
41	Has stocking contributed to an increase in the rod catch of anadromous trout (<i>Salmo trutta</i>)? <i>Journal of Fish Biology</i> , 2019, 99, 980-989.	1.6	5
42	Expression and reconstitution of the bioluminescent Ca ²⁺ reporter aequorin in human embryonic stem cells, and exploration of the presence of functional IP ₃ and ryanodine receptors during the early stages of their differentiation into cardiomyocytes. <i>Science China Life Sciences</i> , 2016, 59, 811-824.	4.9	4
43	Calcium Signaling in Extraembryonic Domains During Early Teleost Development. <i>International Review of Cell and Molecular Biology</i> , 2013, 304, 369-418.	3.2	3
44	Short-term homeostatic regulation of blood/interstitial fluid Ca ²⁺ concentration by the scales of anadromous sea trout (<i>Salmo trutta</i> L.) during smoltification and migration. <i>Journal of Fish Biology</i> , 2021, 98, 17-32.	1.6	3
45	Daily rhythms in heartbeat rate are intrinsic to the zebrafish heart. <i>Current Biology</i> , 2021, 31, R239-R240.	3.9	3
46	Transmembrane H ⁺ fluxes and the regulation of neural induction in <i>Xenopus laevis</i> . <i>Zygote</i> , 2022, 30, 267-278.	1.1	3
47	Ca ²⁺ Signalling and Membrane Dynamics During Cytokinesis in Animal Cells. <i>Advances in Experimental Medicine and Biology</i> , 2017, 981, 389-412.	1.6	2
48	Investigating the role of <i>dachshund b</i> in the development of the pancreatic islet in zebrafish. <i>Journal of Diabetes Investigation</i> , 2021, 12, 710-727.	2.4	2
49	Localized TPC1-mediated Ca ²⁺ release from endolysosomes contributes to myoseptal junction development in zebrafish. <i>Journal of Cell Science</i> , 2022, , .	2.0	2
50	The Use of Complementary Luminescent and Fluorescent Techniques for Imaging Ca ²⁺ Signaling Events During the Early Development of Zebrafish (<i>Danio rerio</i>). <i>Methods in Molecular Biology</i> , 2019, 1929, 73-93.	0.9	1
51	Calcium signaling during the early meroblastic cleavages of zebrafish and medaka embryos. <i>Frontiers in Biology</i> , 2010, 5, 283-285.	0.7	0