

# Andrew L. Miller

## List of Publications by Year in descending order

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51  
papers

1,254  
citations

430442

18  
h-index

377514

34  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transmembrane H <sup>+</sup> fluxes and the regulation of neural induction in <i>Xenopus laevis</i> . <i>Zygote</i> , 2022, 30, 267-278.	0.5	3
2	Localized TPC1-mediated Ca <sup>2+</sup> release from endolysosomes contributes to myoseptal junction development in zebrafish. <i>Journal of Cell Science</i> , 2022, , .	1.2	2
3	Polygoni multiflori radix extracts inhibit SARS-CoV-2 pseudovirus entry in HEK293T cells and zebrafish larvae. <i>Phytomedicine</i> , 2022, 102, 154154.	2.3	6
4	Short-term homeostatic regulation of blood/interstitial fluid Ca <sup>2+</sup> 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.	0.7	3
5	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.	1.1	2
6	Daily rhythms in heartbeat rate are intrinsic to the zebrafish heart. <i>Current Biology</i> , 2021, 31, R239-R240.	1.8	3
7	Has stocking contributed to an increase in the rod catch of anadromous trout ( <i>Salmo</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1099, 980-989.	0.7	5
8	Role of Two-Pore Channels in Embryonic Development and Cellular Differentiation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020, 12, a035170.	2.3	13
9	TPC2-mediated Ca <sup>2+</sup> signaling is required for axon extension in caudal primary motor neurons in zebrafish embryos. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	7
10	Assessing the ability of zebrafish scales to contribute to the short-term homeostatic regulation of [Ca <sup>2+</sup> ] in the extracellular fluid during calcemic challenges. <i>Fisheries Science</i> , 2019, 85, 943-959.	0.7	7
11	The Use of Complementary Luminescent and Fluorescent Techniques for Imaging Ca <sup>2+</sup> Signaling Events During the Early Development of Zebrafish ( <i>Danio rerio</i> ). <i>Methods in Molecular Biology</i> , 2019, 1929, 73-93.	0.4	1
12	Trpc1 as the Missing Link Between the Bmp and Ca <sup>2+</sup> Signalling Pathways During Neural Specification in Amphibians. <i>Scientific Reports</i> , 2019, 9, 16049.	1.6	5
13	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.	0.9	10
14	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.	1.8	44
15	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.	2.3	10
16	TPC2-mediated Ca <sup>2+</sup> signaling is required for the establishment of synchronized activity in developing zebrafish primary motor neurons. <i>Developmental Biology</i> , 2018, 438, 57-68.	0.9	10
17	Identification of Ca <sup>2+</sup> 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.	2.3	9
18	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.	1.4	13

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19	Dual Functional Roles of Molecular Beacon as a MicroRNA Detector and Inhibitor. <i>Journal of Biological Chemistry</i> , 2017, 292, 3568-3580.	1.6	14
20	Ca <sup>2+</sup> 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.	0.9	22
21	Ca <sup>2+</sup> Signalling and Membrane Dynamics During Cytokinesis in Animal Cells. <i>Advances in Experimental Medicine and Biology</i> , 2017, 981, 389-412.	0.8	2
22	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.	0.5	10
23	Expression and reconstitution of the bioluminescent Ca <sup>2+</sup> reporter aequorin in human embryonic stem cells, and exploration of the presence of functional IP3 and ryanodine receptors during the early stages of their differentiation into cardiomyocytes. <i>Science China Life Sciences</i> , 2016, 59, 811-824.	2.3	4
24	The role of Ca <sup>2+</sup> signaling on the self-renewal and neural differentiation of embryonic stem cells (ESCs). <i>Cell Calcium</i> , 2016, 59, 67-74.	1.1	34
25	Calcium signaling orchestrates glioblastoma development: Facts and conjunctures. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1447-1459.	1.9	60
26	Ca <sup>2+</sup> coding and decoding strategies for the specification of neural and renal precursor cells during development. <i>Cell Calcium</i> , 2016, 59, 75-83.	1.1	21
27	CD38 Is Required for Neural Differentiation of Mouse Embryonic Stem Cells by Modulating Reactive Oxygen Species. <i>Stem Cells</i> , 2015, 33, 2664-2673.	1.4	17
28	Two-Pore Channel 2 activity is required for slow muscle cell-generated Ca <sup>2+</sup> signaling during myogenesis in intact zebrafish. <i>International Journal of Developmental Biology</i> , 2015, 59, 313-325.	0.3	30
29	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.	0.3	15
30	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.	1.2	5
31	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.	1.6	21
32	Retrospective on the development of aequorin and aequorin-based imaging to visualize changes in intracellular free [Ca <sup>2+</sup> ]. <i>Molecular Reproduction and Development</i> , 2015, 82, 563-586.	1.0	13
33	Microinjecting Holo-Aequorin into Dechorionated and Intact Zebrafish Embryos. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.prot072967-pdb.prot072967.	0.2	8
34	Calcium Signaling in Extraembryonic Domains During Early Teleost Development. <i>International Review of Cell and Molecular Biology</i> , 2013, 304, 369-418.	1.6	3
35	Aequorin-based genetic approaches to visualize Ca <sup>2+</sup> signaling in developing animal systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1160-1168.	1.1	7
36	Necessary role for intracellular Ca <sup>2+</sup> 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.	0.6	17

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37	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.	0.3	46
38	Calcium signaling during the early meroblastic cleavages of zebrafish and medaka embryos. <i>Frontiers in Biology</i> , 2010, 5, 283-285.	0.7	0
39	Inhibition of stored Ca <sup>2+</sup> 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.	0.6	11
40	Visualization of stochastic Ca <sup>2+</sup> 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.	0.6	19
41	Establishment of a transitory dorsal-biased window of localized Ca <sup>2+</sup> signaling in the superficial epithelium following the mid-blastula transition in zebrafish embryos. <i>Developmental Biology</i> , 2009, 327, 143-157.	0.9	22
42	Multiple roles of the furrow deepening Ca <sup>2+</sup> transient during cytokinesis in zebrafish embryos. <i>Developmental Biology</i> , 2008, 316, 228-248.	0.9	33
43	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.	1.8	29
44	Ca <sup>2+</sup> signaling and early embryonic patterning during the Blastula and Gastrula Periods of Zebrafish and <i>Xenopus</i> development. <i>Biöchimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1192-1208.	1.9	61
45	Calcium transients and neural induction in vertebrates. <i>Cell Calcium</i> , 2005, 37, 375-385.	1.1	41
46	Organization and function of microfilaments during late epiboly in zebrafish embryos. <i>Developmental Dynamics</i> , 2004, 231, 313-323.	0.8	108
47	Calcium signalling during embryonic development. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 539-551.	16.1	195
48	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.	0.9	46
49	On the mechanism of ooplasmic segregation in single-cell zebrafish embryos. <i>Development Growth and Differentiation</i> , 2000, 42, 29-40.	0.6	46
50	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.	0.9	100
51	Correlation between profile of ion-current circulation and root development. <i>Physiologia Plantarum</i> , 1989, 75, 102-108.	2.6	39