Andrew L. Miller

List of Publications by Year
in descending order

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	Transmembrane H⁺fluxes and the regulation of neural induction in<i>Xenopus laevis</i>. Zygote, 2022, 30, 267-278.	1.1	3
2	Localized TPC1-mediated Ca2+ release from endolysosomes contributes to myoseptal junction development in zebrafish. Journal of Cell Science, 2022, , .	2.0	2
3	Polygoni multiflori radix extracts inhibit SARS-CoV-2 pseudovirus entry in HEK293T cells and zebrafish larvae. Phytomedicine, 2022, 102, 154154.	5.3	6
4	Shortâ€term homeostatic regulation of blood/interstitial fluid <scp>Ca²⁺</scp> concentration by the scales of anadromous sea trout <scp><i>Salmo trutta</i> L.</scp> during smoltification and migration. Journal of Fish Biology, 2021, 98, 17-32.	1.6	3
5	Investigating the role of <i>dachshund b</i> in the development of the pancreatic islet in zebrafish. Journal of Diabetes Investigation, 2021, 12, 710-727.	2.4	2
6	Daily rhythms in heartbeat rate are intrinsic to the zebrafish heart. Current Biology, 2021, 31, R239-R240.	3.9	3
7	Has stocking contributed to an increase in the rod catch of anadromous trout (<scp><i>Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 99, 980-989.	1.6	5
8	Role of Two-Pore Channels in Embryonic Development and Cellular Differentiation. Cold Spring Harbor Perspectives in Biology, 2020, 12, a035170.	5.5	13
9	TPC2-mediated Ca2+ signaling is required for axon extension in caudal primary motor neurons in zebrafish embryos. Journal of Cell Science, 2020, 133, .	2.0	7
10	Assessing the ability of zebrafish scales to contribute to the short-term homeostatic regulation of [Ca2+] in the extracellular fluid during calcemic challenges. Fisheries Science, 2019, 85, 943-959.	1.6	7
11	The Use of Complementary Luminescent and Fluorescent Techniques for Imaging Ca2+ Signaling Events During the Early Development of Zebrafish (Danio rerio). Methods in Molecular Biology, 2019, 1929, 73-93.	0.9	1
12	Trpc1 as the Missing Link Between the Bmp and Ca2+ Signalling Pathways During Neural Specification in Amphibians. Scientific Reports, 2019, 9, 16049.	3.3	5
13	Characterization of ADP-ribosyl cyclase 1-like (ARC1-like) activity and NAADP signaling during slow muscle cell development in zebrafish embryos. Developmental Biology, 2019, 445, 211-225.	2.0	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. Cardiovascular Research, 2018, 114, 894-906.	3.8	44
15	TRPC3 is required for the survival, pluripotency and neural differentiation of mouse embryonic stem cells (mESCs). Science China Life Sciences, 2018, 61, 253-265.	4.9	10
16	TPC2-mediated Ca2+ signaling is required for the establishment of synchronized activity in developing zebrafish primary motor neurons. Developmental Biology, 2018, 438, 57-68.	2.0	10
17	Identification of Ca2+ signaling components in neural stem/progenitor cells during differentiation into neurons and glia in intact and dissociated zebrafish neurospheres. Science China Life Sciences, 2018, 61, 1352-1368.	4.9	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. Bone, 2018, 116, 135-143.	2.9	13

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19	Dual Functional Roles of Molecular Beacon as a MicroRNA Detector and Inhibitor. Journal of Biological Chemistry, 2017, 292, 3568-3580.	3.4	14
20	Ca 2+ release via two-pore channel type 2 (TPC2) is required for slow muscle cell myofibrillogenesis and myotomal patterning in intact zebrafish embryos. Developmental Biology, 2017, 425, 109-129.	2.0	22
21	Ca2+ Signalling and Membrane Dynamics During Cytokinesis in Animal Cells. Advances in Experimental Medicine and Biology, 2017, 981, 389-412.	1.6	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. Zygote, 2016, 24, 880-889.	1.1	10
23	Expression and reconstitution of the bioluminescent Ca2+ 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. Science China Life Sciences, 2016, 59, 811-824.	4.9	4
24	The role of Ca2+ signaling on the self-renewal and neural differentiation of embryonic stem cells (ESCs). Cell Calcium, 2016, 59, 67-74.	2.4	34
25	Calcium signaling orchestrates glioblastoma development: Facts and conjunctures. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1447-1459.	4.1	60
26	Ca2+ coding and decoding strategies for the specification of neural and renal precursor cells during development. Cell Calcium, 2016, 59, 75-83.	2.4	21
27	CD38 Is Required for Neural Differentiation of Mouse Embryonic Stem Cells by Modulating Reactive Oxygen Species. Stem Cells, 2015, 33, 2664-2673.	3.2	17
28	Two-Pore Channel 2 activity is required for slow muscle cell-generated Ca2+ signaling during myogenesis in intact zebrafish. International Journal of Developmental Biology, 2015, 59, 313-325.	0.6	30
29	Inhibition of SOCE disrupts cytokinesis in zebrafish embryos via inhibition of cleavage furrow deepening. International Journal of Developmental Biology, 2015, 59, 289-301.	0.6	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. Stem Cells International, 2015, 2015, 1-13.	2.5	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. Journal of Biological Chemistry, 2015, 290, 625-639.	3.4	21
32	Retrospective on the development of aequorin and aequorinâ€based imaging to visualize changes in intracellular free [Ca²⁺]. Molecular Reproduction and Development, 2015, 82, 563-586.	2.0	13
33	Microinjecting Holo-Aequorin into Dechorionated and Intact Zebrafish Embryos. Cold Spring Harbor Protocols, 2013, 2013, pdb.prot072967-pdb.prot072967.	0.3	8
34	Calcium Signaling in Extraembryonic Domains During Early Teleost Development. International Review of Cell and Molecular Biology, 2013, 304, 369-418.	3.2	3
35	Aequorin-based genetic approaches to visualize Ca2+ signaling in developing animal systems. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1160-1168.	2.4	7
36	Necessary role for intracellular Ca2+ transients in initiating the apical-basolateral thinning of enveloping layer cells during the early blastula period of zebrafish development. Development Growth and Differentiation, 2011, 53, 679-696.	1.5	17

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37	Visualization, characterization and modulation of calcium signaling during the development of slow muscle cells in intact zebrafish embryos. International Journal of Developmental Biology, 2011, 55, 153-174.	0.6	46
38	Calcium signaling during the early meroblastic cleavages of zebrafish and medaka embryos. Frontiers in Biology, 2010, 5, 283-285.	0.7	0
39	Inhibition of stored Ca²⁺ release disrupts convergenceâ€related cell movements in the lateral intermediate mesoderm resulting in abnormal positioning and morphology of the pronephric anlagen in intact zebrafish embryos. Development Growth and Differentiation, 2009, 51, 429-442.	1.5	11
40	Visualization of stochastic Ca²⁺ signals in the formed somites during the early segmentation period in intact, normally developing zebrafish embryos. Development Growth and Differentiation, 2009, 51, 617-637.	1.5	19
41	Establishment of a transitory dorsal-biased window of localized Ca2+ signaling in the superficial epithelium following the mid-blastula transition in zebrafish embryos. Developmental Biology, 2009, 327, 143-157.	2.0	22
42	Multiple roles of the furrow deepening Ca2+ transient during cytokinesis in zebrafish embryos. Developmental Biology, 2008, 316, 228-248.	2.0	33
43	Calcium signalling during neural induction in<i>Xenopus laevis</i>embryos. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1371-1375.	4.0	29
44	Ca2+ signaling and early embryonic patterning during the Blastula and Gastrula Periods of Zebrafish and Xenopus development. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1192-1208.	4.1	61
45	Calcium transients and neural induction in vertebrates. Cell Calcium, 2005, 37, 375-385.	2.4	41
46	Organization and function of microfilaments during late epiboly in zebrafish embryos. Developmental Dynamics, 2004, 231, 313-323.	1.8	108
47	Calcium signalling during embryonic development. Nature Reviews Molecular Cell Biology, 2003, 4, 539-551.	37.0	195
48	Calcium transients triggered by planar signals induce the expression of ZIC3 gene during neural induction in Xenopus. Developmental Biology, 2003, 261, 381-390.	2.0	46
49	On the mechanism of ooplasmic segregation in single-cell zebrafish embryos. Development Growth and Differentiation, 2000, 42, 29-40.	1.5	46
50	Localized Calcium Transients Accompany Furrow Positioning, Propagation, and Deepening during the Early Cleavage Period of Zebrafish Embryos. Developmental Biology, 1997, 192, 78-92.	2.0	100
51	Correlation between profile of ion-current circulation and root development. Physiologia Plantarum, 1989, 75, 102-108.	5.2	39