Alex McDougall

List of Publications by Year
in descending order

54 papers	1,877 citations	304743 22 h-index	276875 41 g-index
60 all docs	60 docs citations	60 times ranked	1283 citing authors

#	Article	IF	Citations
1	Homologue disjunction in mouse oocytes requires proteolysis of securin and cyclin B1. Nature Cell Biology, 2003, 5, 1023-1025.	10.3	189
2	Mad2 prevents aneuploidy and premature proteolysis of cyclin B and securin during meiosis I in mouse oocytes. Genes and Development, 2005, 19, 202-207.	5.9	189
3	Ca2+ Oscillations Promote APC/C-Dependent Cyclin B1 Degradation during Metaphase Arrest and Completion of Meiosis in Fertilizing Mouse Eggs. Current Biology, 2002, 12, 746-750.	3.9	133
4	Function and characteristics of repetitive calcium waves associated with meiosis. Current Biology, 1995, 5, 318-328.	3.9	103
5	Mad2 is required for inhibiting securin and cyclin B degradation following spindle depolymerisation in meiosis I mouse oocytes. Reproduction, 2005, 130, 829-843.	2.6	97
6	ERK- and JNK-signalling regulate gene networks that stimulate metamorphosis and apoptosis in tail tissues of ascidian tadpoles. Development (Cambridge), 2007, 134, 1203-1219.	2.5	70
7	The PP2A Inhibitor I2PP2A Is Essential for Sister Chromatid Segregation in Oocyte Meiosis II. Current Biology, 2013, 23, 485-490.	3.9	69
8	Ca2+-promoted cyclin B1 degradation in mouse oocytes requires the establishment of a metaphase arrest. Developmental Biology, 2004, 269, 206-219.	2.0	60
9	Embryological Methods in Ascidians: The Villefranche-sur-Mer Protocols. Methods in Molecular Biology, 2011, 770, 365-400.	0.9	55
10	Dual mechanism controls asymmetric spindle position in ascidian germ cell precursors. Development (Cambridge), 2010, 137, 2011-2021.	2.5	50
11	Ca2+ oscillations and the cell cycle at fertilisation of mammalian and ascidian eggs. Biology of the Cell, 2000, 92, 187-196.	2.0	45
12	Simultaneous Measurement of Intracellular Nitric Oxide and Free Calcium Levels in Chordate Eggs Demonstrates That Nitric Oxide Has No Role at Fertilization. Developmental Biology, 2001, 234, 216-230.	2.0	45
13	The initiation and propagation of the fertilization wave in sea urchin eggs. Biology of the Cell, 2000, 92, 205-214.	2.0	44
14	Microdomains bounded by endoplasmic reticulum segregate cell cycle calcium transients in syncytial Drosophila embryos. Journal of Cell Biology, 2005, 171, 47-59.	5.2	44
15	Thimerosal reveals calcium-induced calcium release in unfertilised sea urchin eggs. Zygote, 1993, 1, 35-42.	1.1	43
16	Calcium waves and oscillations in eggs. Biophysical Chemistry, 1998, 72, 131-140.	2.8	41
17	Beta-catenin patterns the cell cycle during maternal-to-zygotic transition in urochordate embryos. Developmental Biology, 2013, 384, 331-342.	2.0	37
18	Cytoplasmic domains in eggs. Trends in Cell Biology, 1994, 4, 166-172.	7.9	33

#	Article	IF	Citations
19	Cell cycle arrest and activation of development in marine invertebrate deuterostomes. Biochemical and Biophysical Research Communications, 2014, 450, 1175-1181.	2.1	33
20	Sperm-induced currents at fertilization in sea urchin eggs injected with EGTA and neomycin. Developmental Biology, 1992, 151, 552-563.	2.0	32
21	The invariant cleavage pattern displayed by ascidian embryos depends on spindle positioning along the cell's longest axis in the apical plane and relies on asynchronous cell divisions. ELife, 2017, 6, .	6.0	29
22	Different calcium-dependent pathways control fertilisation-triggered glycoside release and the cortical contraction in ascidian eggs. Zygote, 1995, 3, 251-258.	1.1	28
23	Mos limits the number of meiotic divisions in urochordate eggs. Development (Cambridge), 2011, 138, 885-895.	2.5	27
24	Exploring the mechanism of action of the sperm-triggered calcium-wave pacemaker in ascidian zygotes. Journal of Cell Science, 2003, 116, 4997-5004.	2.0	25
25	Restaging the Spindle Assembly Checkpoint in Female Mammalian Meiosis I. Cell Cycle, 2005, 4, 650-653.	2.6	24
26	Fertilisation calcium signals in the ascidian egg. Biology of the Cell, 2004, 96, 29-36.	2.0	22
27	RNA interference in meiosis I human oocytes: towards an understanding of human aneuploidy. Molecular Human Reproduction, 2005, 11, 397-404.	2.8	21
28	Apical Relaxation during Mitotic Rounding Promotes Tension-Oriented Cell Division. Developmental Cell, 2020, 55, 695-706.e4.	7.0	20
29	Microinjection and 4D Fluorescence Imaging in the Eggs and Embryos of the Ascidian Phallusia mammillata. Methods in Molecular Biology, 2014, 1128, 175-185.	0.9	19
30	Centrosomes and spindles in ascidian embryos and eggs. Methods in Cell Biology, 2015, 129, 317-339.	1.1	19
31	Kif2 localizes to a subdomain of cortical endoplasmic reticulum that drives asymmetric spindle position. Nature Communications, 2017, 8, 917.	12.8	18
32	Influence of cell polarity on early development of the sea urchin embryo. Developmental Dynamics, 2015, 244, 1469-1484.	1.8	17
33	Ascidians: An Emerging Marine Model for Drug Discovery and Screening. Current Topics in Medicinal Chemistry, 2017, 17, 2056-2066.	2.1	17
34	Calcium signalling at fertilization. Journal of the Marine Biological Association of the United Kingdom, 1994, 74, 3-16.	0.8	16
35	A novel mechanism controls the Ca2+ oscillations triggered by activation of ascidian eggs and has an absolute requirement for Cdk1 activity. Journal of Cell Science, 2007, 120, 1763-1771.	2.0	16
36	Release from meiotic arrest in ascidian eggs requires the activity of two phosphatases but not CaMKII. Development (Cambridge), 2013, 140, 4583-4593.	2.5	16

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37	Practical Guide for Ascidian Microinjection: Phallusia mammillata. Advances in Experimental Medicine and Biology, 2018, 1029, 15-24.	1.6	15
38	Cell-Cycle Control in Oocytes and During Early Embryonic Cleavage Cycles in Ascidians. International Review of Cell and Molecular Biology, 2012, 297, 235-264.	3.2	13
39	Bisphenols disrupt differentiation of the pigmented cells during larval brain formation in the ascidian. Aquatic Toxicology, 2019, 216, 105314.	4.0	13
40	The Spindle Assembly Checkpoint Functions during Early Development in Non-Chordate Embryos. Cells, 2020, 9, 1087.	4.1	11
41	Emergence of Embryo Shape During Cleavage Divisions. Results and Problems in Cell Differentiation, 2019, 68, 127-154.	0.7	9
42	Urochordate Ascidians Possess a Single Isoform of Aurora Kinase That Localizes to the Midbody via TPX2 in Eggs and Cleavage Stage Embryos. PLoS ONE, 2012, 7, e45431.	2.5	9
43	IP3 Responsiveness Is Regulated in a Meiotic Cell Cycle Dependent Manner: Implications for Fertilization Induced Calcium Signalling. Cell Cycle, 2003, 2, 609-612.	2.6	8
44	Potential roles of nuclear receptors in mediating neurodevelopmental toxicity of known endocrineâ€disrupting chemicals in ascidian embryos. Molecular Reproduction and Development, 2019, 86, 1333-1347.	2.0	8
45	Combined effect of cell geometry and polarity domains determines the orientation of unequal division. ELife, 2021, 10, .	6.0	8
46	Signals and calcium waves at fertilization. Seminars in Cell and Developmental Biology, 2006, 17, 223-225.	5.0	6
47	Cell Cycle in Ascidian Eggs and Embryos. Results and Problems in Cell Differentiation, 2011, 53, 153-169.	0.7	6
48	Practical tips for imaging ascidian embryos. Development Growth and Differentiation, 2013, 55, 446-453.	1.5	5
49	Inositol 1,4,5-trisphosphate (IP3) responsiveness is regulated in a meiotic cell cycle dependent manner: implications for fertilization induced calcium signaling. Cell Cycle, 2003, 2, 610-3.	2.6	3
50	Role of PB1 Midbody Remnant Creating Tethered Polar Bodies during Meiosis II. Genes, 2020, 11, 1394.	2.4	2
51	High-content analysis of larval phenotypes for the screening of xenobiotic toxicity using Phallusia mammillata embryos. Aquatic Toxicology, 2021, 232, 105768.	4.0	2
52	Sperm-triggered Calcium Oscillations at Fertilization. , 2001, , 36-46.		1
53	Gene Editing in the Ascidian Phallusia mammillata and Tail Nerve Cord Formation. Methods in Molecular Biology, 2021, 2219, 217-230.	0.9	1
54	Release from meiotic arrest in ascidian eggs requires the activity of two phosphatases but not CaMKII. Journal of Cell Science, 2013, 126, e1-e1.	2.0	0