Keith T Jones

List of Publications by Year
in descending order

96 papers	5,431 citations	61945 43 h-index	88593 70 g-index
155 all docs	155 docs citations	155 times ranked	3669 citing authors

#	Article	IF	Citations
1	Reactive Oxygen Species and Sperm Functionâ€"In Sickness and In Health. Journal of Andrology, 2012, 33, 1096-1106.	2.0	307
2	Meiosis in oocytes: predisposition to aneuploidy and its increased incidence with age. Human Reproduction Update, 2008, 14, 143-158.	5.2	202
3	Meiotic and Mitotic Ca2+Oscillations Affect Cell Composition in Resulting Blastocysts. Developmental Biology, 1997, 182, 172-179.	0.9	197
4	Ionomycin, Thapsigargin, Ryanodine, and Sperm Induced Ca2+ Release Increase during Meiotic Maturation of Mouse Oocytes. Journal of Biological Chemistry, 1995, 270, 6671-6677.	1.6	171
5	Turning it on and off: M-phase promoting factor during meiotic maturation and fertilization. Molecular Human Reproduction, 2004, 10, 1-5.	1.3	171
6	Mouse Emi2 is required to enter meiosis II by reestablishing cyclin B1 during interkinesis. Journal of Cell Biology, 2006, 174, 791-801.	2.3	163
7	Molecular causes of aneuploidy in mammalian eggs. Development (Cambridge), 2013, 140, 3719-3730.	1.2	159
8	APCcdh1 activity in mouse oocytes prevents entry into the first meiotic division. Nature Cell Biology, 2006, 8, 539-540.	4.6	155
9	Mammalian egg activation: from Ca2+ spiking to cell cycle progression. Reproduction, 2005, 130, 813-823.	1.1	138
10	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.	1.8	133
11	Timing of anaphase-promoting complex activation in mouse oocytes is predicted by microtubule-kinetochore attachment but not by bivalent alignment or tension. Development (Cambridge), 2012, 139, 1947-1955.	1.2	128
12	Melatonin Prevents Postovulatory Oocyte Aging in the Mouse and Extends the Window for Optimal Fertilization In Vitro1. Biology of Reproduction, 2013, 88, 67.	1.2	128
13	A mammalian sperm cytosolic phospholipase C activity generates inositol trisphosphate and causes Ca2+release in sea urchin egg homogenates. FEBS Letters, 1998, 437, 297-300.	1.3	114
14	Mammalian Sperm Contain a Ca2+-Sensitive Phospholipase C Activity That Can Generate InsP3 from PIP2 Associated with Intracellular Organelles. Developmental Biology, 2000, 228, 125-135.	0.9	108
15	A cell cycle-associated change in Ca2+ releasing activity leads to the generation of Ca2+ transients in mouse embryos during the first mitotic division.. Journal of Cell Biology, 1996, 132, 915-923.	2.3	99
16	DNA damage induces a meiotic arrest in mouse oocytes mediated by the spindle assembly checkpoint. Nature Communications, 2015, 6, 8553.	5.8	98
17	Prometaphase APCcdh1 activity prevents non-disjunction in mammalian oocytes. Nature Cell Biology, 2007, 9, 1192-1198.	4.6	97
18	How eggs arrest at metaphase II: MPF stabilisation plus APC/C inhibition equals Cytostatic Factor. , 2007, 2, 4.		94

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19	Phospholipase CÎ¶, the trigger of egg activation in mammals, is present in a non-mammalian species. Reproduction, 2005, 130, 157-163.	1.1	91
20	Calmodulin-dependent protein kinase II, and not protein kinase C, is sufficient for triggering cell-cycle resumption in mammalian eggs. Journal of Cell Science, 2005, 118, 3849-3859.	1.2	90
21	Effect of Aging on Superovulation Efficiency, Aneuploidy Rates, and Sister Chromatid Cohesion in Mice Aged Up to 15 Months1. Biology of Reproduction, 2012, 86, 49.	1.2	86
22	Different Ca2+-releasing abilities of sperm extracts compared with tissue extracts and phospholipase C isoforms in sea urchin egg homogenate and mouse eggs. Biochemical Journal, 2000, 346, 743-749.	1.7	81
23	The Control of Meiotic Maturation in Mammalian Oocytes. Current Topics in Developmental Biology, 2013, 102, 207-226.	1.0	80
24	Premature dyad separation in meiosis II is the major segregation error with maternal age in mouse oocytes. Development (Cambridge), 2014, 141, 199-208.	1.2	76
25	A Comparison of Sperm- and IP3-Induced Ca2+Release in Activated and Aging Mouse Oocytes. Developmental Biology, 1996, 178, 229-237.	0.9	73
26	The CRY box: a second APC cdh1 â€dependent degron in mammalian cdc20. EMBO Reports, 2006, 7, 1040-1045.	2.0	72
27	Sperm-Induced Ca2+ Oscillations in Mouse Oocytes and Eggs Can Be Mimicked by Photolysis of Caged Inositol 1,4,5-Trisphosphate: Evidence to Support a Continuous Low Level Production of Inositol 1,4,5-Trisphosphate during Mammalian Fertilization. Developmental Biology, 2000, 225, 1-12.	0.9	66
28	Calmodulin-dependent protein kinase II triggers mouse egg activation and embryo development in the absence of Ca2+ oscillations. Developmental Biology, 2006, 296, 388-395.	0.9	65
29	Thapsigargin Raises Intracellular Free Calcium Levels in Human Keratinocytes and Inhibits the Coordinated Expression of Differentiation Markers. Experimental Cell Research, 1994, 210, 71-76.	1.2	62
30	Essential CDK1-inhibitory role for separase during meiosis I in vertebrate oocytes. Nature Cell Biology, 2006, 8, 1035-1037.	4.6	61
31	Ca2+-promoted cyclin B1 degradation in mouse oocytes requires the establishment of a metaphase arrest. Developmental Biology, 2004, 269, 206-219.	0.9	60
32	The Aurora kinase inhibitor ZM447439 accelerates first meiosis in mouse oocytes by overriding the spindle assembly checkpoint. Reproduction, 2010, 140, 521-530.	1.1	60
33	Spatial regulation of APCCdh1-induced cyclin B1 degradation maintains G2 arrest in mouse oocytes. Development (Cambridge), 2010, 137, 1297-1304.	1.2	59
34	Unique protein kinase C profile in mouse oocytes: lack of calcium-dependent conventional isoforms suggested by rtPCR and Western blotting. FEBS Letters, 1997, 412, 309-312.	1.3	55
35	The soluble sperm factor that causes Ca2+ release from sea-urchin (Lytechinus pictus) egg homogenates also triggers Ca2+ oscillations after injection into mouse eggs. Biochemical Journal, 1999, 341, 1-4.	1.7	55
36	Maintenance of sister chromatid attachment in mouse eggs through maturation-promoting factor activity. Developmental Biology, 2004, 275, 68-81.	0.9	55

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37	The APC/C activator FZR1 coordinates the timing of meiotic resumption during prophase I arrest in mammalian oocytes. Development (Cambridge), 2011, 138, 905-913.	1.2	54
38	SIAH1 targets the alternative splicing factor T-STAR for degradation by the proteasome. Human Molecular Genetics, 2004, 13, 1525-1534.	1.4	51
39	INTRACELLULAR CALCIUM IN THE FERTILIZATION AND DEVELOPMENT OF MAMMALIAN EGGS. Clinical and Experimental Pharmacology and Physiology, 2007, 34, 1084-1089.	0.9	51
40	Control of homologous chromosome division in the mammalian oocyte. Molecular Human Reproduction, 2009, 15, 139-147.	1.3	51
41	Reduced ability to recover from spindle disruption and loss of kinetochore spindle assembly checkpoint proteins in oocytes from aged mice. Cell Cycle, 2014, 13, 1938-1947.	1.3	49
42	DNA damage responses in mammalian oocytes. Reproduction, 2016, 152, R15-R22.	1.1	48
43	Protein kinase C action at fertilization: overstated or undervalued?. Reproduction, 1998, 3, 7-12.	2.0	45
44	Ca2+ oscillations and the cell cycle at fertilisation of mammalian and ascidian eggs. Biology of the Cell, 2000, 92, 187-196.	0.7	45
45	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.	0.9	45
46	DNA Double Strand Breaks but Not Interstrand Crosslinks Prevent Progress through Meiosis in Fully Grown Mouse Oocytes. PLoS ONE, 2012, 7, e43875.	1.1	44
47	FACS-sorted putative oogonial stem cells from the ovary are neither DDX4-positive nor germ cells. Scientific Reports, 2016, 6, 27991.	1.6	44
48	Calmodulin-dependent protein kinase gamma 3 (CamKIIĵ33) mediates the cell cycle resumption of metaphase II eggs in mouse. Development (Cambridge), 2009, 136, 4077-4081.	1.2	43
49	Increased zona pellucida thickness and meiotic spindle disruption in oocytes from cigarette smoking mice. Human Reproduction, 2011, 26, 878-884.	0.4	42
50	Non-canonical function of spindle assembly checkpoint proteins after APC activation reduces aneuploidy in mouse oocytes. Nature Communications, 2014, 5, 3444.	5.8	42
51	Chromosomal, metabolic, environmental, and hormonal origins of aneuploidy in mammalian oocytes. Experimental Cell Research, 2012, 318, 1394-1399.	1.2	41
52	Degradation of APCcdc20 and APCcdh1 substrates during the second meiotic division in mouse eggs. Journal of Cell Science, 2004, 117, 6289-6296.	1.2	37
53	The sensitivity of the DNA damage checkpoint prevents oocyte maturation in endometriosis. Scientific Reports, 2016, 6, 36994.	1.6	37
54	Anaphase-Promoting Complex Control in Female Mouse Meiosis. Results and Problems in Cell Differentiation, 2011, 53, 343-363.	0.2	35

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55	Staurosporine, a non-specific PKC inhibitor, induces keratinocyte differentiation and raises intracellular calcium, but Ro31-8220, a specific inhibitor, does not. Journal of Cellular Physiology, 1994, 159, 324-330.	2.0	34
56	Securin and not CDK1/cyclin B1 regulates sister chromatid disjunction during meiosis II in mouse eggs. Developmental Biology, 2008, 321, 379-386.	0.9	34
57	A Cytosolic Sperm Protein Factor Mobilizes Ca2+ from Intracellular Stores by Activating Multiple Ca2+ Release Mechanisms Independently of Low Molecular Weight Messengers. Journal of Biological Chemistry, 1997, 272, 28901-28905.	1.6	33
58	Essential Role of Protein Phosphatase 2A in Metaphase II Arrest and Activation of Mouse Eggs Shown by Okadaic Acid, Dominant Negative Protein Phosphatase 2A, and FTY720. Journal of Biological Chemistry, 2011, 286, 14705-14712.	1.6	33
59	Spindle tubulin and MTOC asymmetries may explain meiotic drive in oocytes. Nature Communications, 2018, 9, 2952.	5.8	33
60	Application of two-photon flash photolysis to reveal intercellular communication and intracellular Ca[sup 2+] movements. Journal of Biomedical Optics, 2003, 8, 418.	1.4	31
61	Regulation of the meiotic divisions of mammalian oocytes and eggs. Biochemical Society Transactions, 2018, 46, 797-806.	1.6	31
62	Ni2+ Blocks the Ca2+ Influx in Human Keratinocytes Following a Rise in Extracellular Ca2+. Experimental Cell Research, 1994, 212, 409-413.	1.2	30
63	The antiproliferative effect of lectin from the edible mushroom (Agaricus bisporus) on human keratinocytes: preliminary studies on its use in psoriasis. British Journal of Dermatology, 1999, 140, 56-60.	1.4	28
64	APC^{FZR1}prevents nondisjunction in mouse oocytes by controlling meiotic spindle assembly timing. Molecular Biology of the Cell, 2012, 23, 3970-3981.	0.9	28
65	DNA damage induces a kinetochore-based ATM/ATR-independent SAC arrest unique to the first meiotic division in mouse oocytes. Development (Cambridge), 2017, 144, 3475-3486.	1.2	28
66	CaMKII can participate in but is not sufficient for the establishment of the membrane block to polyspermy in mouse eggs. Journal of Cellular Physiology, 2007, 212, 275-280.	2.0	27
67	Chromosome biorientation and APC activity remain uncoupled in oocytes with reduced volume. Journal of Cell Biology, 2017, 216, 3949-3957.	2.3	27
68	Intracellular free calcium and growth changes in single human keratinocytes in response to vitamin D and five 20-epi-analogues. Archives of Dermatological Research, 1994, 286, 123-129.	1.1	26
69	Different Ca2+-releasing abilities of sperm extracts compared with tissue extracts and phospholipase C isoforms in sea urchin egg homogenate and mouse eggs. Biochemical Journal, 2000, 346, 743.	1.7	26
70	Exploring the mechanism of action of the sperm-triggered calcium-wave pacemaker in ascidian zygotes. Journal of Cell Science, 2003, 116, 4997-5004.	1.2	25
71	The APC/C activator FZR1 is essential for meiotic prophase I in mice. Development (Cambridge), 2014, 141, 1354-1365.	1.2	24
72	The soluble sperm factor that causes Ca2+ release from sea-urchin (Lytechinus pictus) egg homogenates also triggers Ca2+ oscillations after injection into mouse eggs. Biochemical Journal, 1999, 341, 1.	1.7	22

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73	Reduced Chromosome Cohesion Measured by Interkinetochore Distance Is Associated with Aneuploidy Even in Oocytes from Young Mice1. Biology of Reproduction, 2013, 88, 31.	1.2	22
74	Injections of Porcine Sperm Extracts Trigger Fertilization-like Calcium Oscillations in Oocytes of a Marine Worm. Experimental Cell Research, 2000, 257, 341-347.	1.2	19
75	Potential role of a sperm-derived phospholipase C in triggering the egg-activating Ca2+ signal at fertilization. Reproduction, 2001, 122, 839-846.	1.1	17
76	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.	1.2	16
77	Intracellular calcium modulates the responses of human melanocytes to melanogenic stimuli. Journal of Dermatological Science, 1995, 9, 157-164.	1.0	14
78	Loss of GGN Leads to Pre-Implantation Embryonic Lethality and Compromised Male Meiotic DNA Double Strand Break Repair in the Mouse. PLoS ONE, 2013, 8, e56955.	1.1	14
79	On the search for the sperm oscillogen. Molecular Human Reproduction, 1998, 4, 1010-1012.	1.3	13
80	GGN1 in the testis and ovary and its variance within the Australian fertile and infertile male population. Journal of Developmental and Physical Disabilities, 2011, 34, 624-632.	3.6	12
81	The APC activator fizzy-related-1 (FZR1) is needed for preimplantation mouse embryo development. Journal of Cell Science, 2012, 125, 6030-6037.	1.2	10
82	Time-Lapse Epifluorescence Imaging of Expressed cRNA to Cyclin B1 for Studying Meiosis I in Mouse Oocytes. Methods in Molecular Biology, 2013, 957, 91-106.	0.4	9
83	Chromosome structural anomalies due to aberrant spindle forces exerted at gene editing sites in meiosis. Journal of Cell Biology, 2018, 217, 3416-3430.	2.3	8
84	Mammalian sperm contain two factors for calcium release and egg activation: Phospholipase C zeta and a cryptic activating factor. Molecular Human Reproduction, 2018, 24, 465-468.	1.3	7
85	Loss of centromeric RNA activates the spindle assembly checkpoint in mammalian female meiosis I. Journal of Cell Biology, 2021, 220, .	2.3	7
86	Differential regulation of cyclin B1 degradation between the first and second meiotic divisions of bovine oocytes. Theriogenology, 2012, 78, 1171-1181.e1.	0.9	6
87	Flavors of Non-Random Meiotic Segregation of Autosomes and Sex Chromosomes. Genes, 2021, 12, 1338.	1.0	5
88	Start and Stop Signals of Oocyte Meiotic Maturation. , 2013, , 183-193.		5
89	Composition of sea urchin egg homogenate determines its potency to inositol trisphosphate and cyclic ADPRibose-induced Ca2+ release. Biochemical and Biophysical Research Communications, 2007, 360, 815-820.	1.0	3
90	Cohesin and Cdk1: an anaphase barricade. Nature Cell Biology, 2010, 12, 106-108.	4.6	3

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91	Imaging Chromosome Separation in Mouse Oocytes by Responsive 3D Confocal Timelapse Microscopy. Methods in Molecular Biology, 2017, 1471, 245-254.	0.4	3
92	Membrane Events of Egg Activation. , 2002, , 319-346.		2
93	BubR1 highlights essential function of Cdh1 in mammalian oocytes. Cell Cycle, 2010, 9, 1025-1030.	1.3	2
94	Phosphorylation of Histone H3 in 1- and 2-cell embryos. Cell Cycle, 2011, 10, 23-22.	1.3	1
95	Meiosis: Mouse Eggs Do Their Anaphase Topsy-Turvy. Current Biology, 2012, 22, R153-R155.	1.8	0
96	Timing of anaphase-promoting complex activation in mouse oocytes is predicted by microtubule-kinetochore attachment but not by bivalent alignment or tension. Journal of Cell Science, 2012, 125, e1-e1.	1.2	0