

Karen Schindler

List of Publications by Year in descending order

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52
papers

1,805
citations

236925

25
h-index

289244

40
g-index

58
all docs

58
docs citations

58
times ranked

1627
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence that Weakened Centromere Cohesion Is a Leading Cause of Age-Related Aneuploidy in Oocytes. <i>Current Biology</i> , 2010, 20, 1522-1528.	3.9	330
2	Selective Disruption of Aurora C Kinase Reveals Distinct Functions from Aurora B Kinase during Meiosis in Mouse Oocytes. <i>PLoS Genetics</i> , 2014, 10, e1004194.	3.5	99
3	Phosphorylation of histone H4 Ser1 regulates sporulation in yeast and is conserved in fly and mouse spermatogenesis. <i>Genes and Development</i> , 2006, 20, 2580-2592.	5.9	94
4	Maternally recruited Aurora C kinase is more stable than Aurora B to support mouse oocyte maturation and early development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2215-22.	7.1	79
5	Aurora kinase B modulates chromosome alignment in mouse oocytes. <i>Molecular Reproduction and Development</i> , 2009, 76, 1094-1105.	2.0	78
6	CDC14B Acts Through FZR1 (CDH1) to Prevent Meiotic Maturation of Mouse Oocytes ¹ . <i>Biology of Reproduction</i> , 2009, 80, 795-803.	2.7	66
7	Functions of Aurora kinase C in meiosis and cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 50.	3.7	55
8	Mouse Oocyte Microinjection, Maturation and Ploidy Assessment. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	51
9	Genetic Interactions between the Aurora Kinases Reveal New Requirements for AURKB and AURKC during Oocyte Meiosis. <i>Current Biology</i> , 2018, 28, 3458-3468.e5.	3.9	49
10	Phosphorylation of threonine 3 on histone H3 by Haspin kinase is required for meiosis I in mouse oocytes. <i>Journal of Cell Science</i> , 2014, 127, 5066-78.	2.0	47
11	Haspin kinase regulates microtubule-organizing center clustering and stability through Aurora kinase C in mouse oocytes. <i>Journal of Cell Science</i> , 2016, 129, 3648-3660.	2.0	46
12	Geochemistry and microbial diversity of a trichloroethene-contaminated Superfund site undergoing intrinsic in situ reductive dechlorination. <i>FEMS Microbiology Ecology</i> , 2002, 40, 123-134.	2.7	44
13	Meiosis interrupted: the genetics of female infertility via meiotic failure. <i>Reproduction</i> , 2021, 161, R13-R35.	2.6	44
14	CAK1 Promotes Meiosis and Spore Formation in <i>Saccharomyces cerevisiae</i> in a CDC28 -Independent Fashion. <i>Molecular and Cellular Biology</i> , 2002, 22, 57-68.	2.3	43
15	Specialize and Divide (Twice): Functions of Three Aurora Kinase Homologs in Mammalian Oocyte Meiotic Maturation. <i>Trends in Genetics</i> , 2017, 33, 349-363.	6.7	40
16	The Cdk-Activating Kinase Cak1p Promotes Meiotic S Phase through Ime2p. <i>Molecular and Cellular Biology</i> , 2003, 23, 8718-8728.	2.3	38
17	The chromosomal basis of meiotic acentrosomal spindle assembly and function in oocytes. <i>Chromosoma</i> , 2017, 126, 351-364.	2.2	37
18	Phosphorylation of Ime2 Regulates Meiotic Progression in <i>Saccharomyces cerevisiae</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 18307-18316.	3.4	36

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19	Cdc25A activity is required for the metaphase II arrest in mouse oocytes. <i>Journal of Cell Science</i> , 2013, 126, 1081-1085.	2.0	35
20	Aurora kinase A is essential for meiosis in mouse oocytes. <i>PLoS Genetics</i> , 2021, 17, e1009327.	3.5	35
21	The CDC14A phosphatase regulates oocyte maturation in mouse. <i>Cell Cycle</i> , 2009, 8, 1090-1098.	2.6	33
22	Origins and mechanisms leading to aneuploidy in human eggs. <i>Prenatal Diagnosis</i> , 2021, 41, 620-630.	2.3	33
23	RBBP4 Regulates Histone Deacetylation and Bipolar Spindle Assembly During Oocyte Maturation in the Mouse1. <i>Biology of Reproduction</i> , 2015, 92, 105.	2.7	31
24	Knockdown of RBBP7 unveils a requirement of histone deacetylation for CPC function in mouse oocytes. <i>Cell Cycle</i> , 2014, 13, 600-611.	2.6	30
25	Identification and characterization of Aurora kinase B and C variants associated with maternal aneuploidy. <i>Molecular Human Reproduction</i> , 2017, 23, 406-416.	2.8	30
26	Protein Kinases and Protein Phosphatases that Regulate Meiotic Maturation in Mouse Oocytes. <i>Results and Problems in Cell Differentiation</i> , 2011, 53, 309-341.	0.7	27
27	Arg-Pro-X-Ser/Thr Is a Consensus Phosphoacceptor Sequence for the Meiosis-Specific Ime2 Protein Kinase in <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2007, 46, 271-278.	2.5	22
28	Expression and characterization of three Aurora kinase C splice variants found in human oocytes. <i>Molecular Human Reproduction</i> , 2015, 21, 633-644.	2.8	20
29	Aurora B and C kinases regulate chromosome desynapsis and segregation during mouse and human spermatogenesis. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	19
30	Age-dependent integrity of the meiotic spindle assembly checkpoint in females requires Aurora kinase B. <i>Aging Cell</i> , 2021, 20, e13489.	6.7	19
31	Mathematical modeling of human oocyte aneuploidy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10455-10464.	7.1	16
32	Exome sequencing links <i>CEP120</i> mutation to maternally derived aneuploid conception risk. <i>Human Reproduction</i> , 2020, 35, 2134-2148.	0.9	15
33	Characterization of macrozoospermia-associated AURKC mutations in a mammalian meiotic system. <i>Human Molecular Genetics</i> , 2016, 25, ddw128.	2.9	14
34	SIRT7 promotes chromosome synapsis during prophase I of female meiosis. <i>Chromosoma</i> , 2019, 128, 369-383.	2.2	14
35	Acentriolar spindle assembly in mammalian female meiosis and the consequences of its perturbations on human reproduction. <i>Biology of Reproduction</i> , 2022, 106, 253-263.	2.7	14
36	Over-expression of CDC14B causes mitotic arrest and inhibits zygotic genome activation in mouse preimplantation embryos. <i>Cell Cycle</i> , 2009, 8, 3904-3913.	2.6	13

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37	Vitrification-induced activation of lysosomal cathepsin B perturbs spindle assembly checkpoint function in mouse oocytes. <i>Molecular Human Reproduction</i> , 2020, 26, 689-701.	2.8	13
38	Human MLH1/3 variants causing aneuploidy, pregnancy loss, and premature reproductive aging. <i>Nature Communications</i> , 2021, 12, 5005.	12.8	13
39	Sirtuins in female meiosis and in reproductive longevity. <i>Molecular Reproduction and Development</i> , 2020, 87, 1175-1187.	2.0	12
40	Haspin inhibition reveals functional differences of interchromatid axis-localized AURKB and AURKC. <i>Molecular Biology of the Cell</i> , 2017, 28, 2233-2240.	2.1	10
41	Analysis of DNA variants in miRNAs and miRNA 3'UTR binding sites in female infertility patients. <i>Laboratory Investigation</i> , 2021, 101, 503-512.	3.7	10
42	Immunofluorescence Technique to Detect Subcellular Structures Critical to Oocyte Maturation. <i>Methods in Molecular Biology</i> , 2018, 1818, 67-76.	0.9	9
43	Predicting embryonic aneuploidy rate in IVF patients using whole-exome sequencing. <i>Human Genetics</i> , 2022, 141, 1615-1627.	3.8	9
44	Unscrambling the oocyte and the egg: clarifying terminology of the female gamete in mammals. <i>Molecular Human Reproduction</i> , 2020, 26, 797-800.	2.8	8
45	Aurora kinase B inhibits aurora kinase A to control maternal mRNA translation in mouse oocytes. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	8
46	Aurora kinase mRNA expression is reduced with increasing gestational age and in severe early onset fetal growth restriction. <i>Placenta</i> , 2020, 95, 53-61.	1.5	7
47	Maternal RNA regulates Aurora C kinase during mouse oocyte maturation in a translation-independent fashion. <i>Biology of Reproduction</i> , 2017, 96, 1197-1209.	2.7	5
48	Aurora kinase roles in idiosyncratic mitoses: The same, but different. <i>Cell Cycle</i> , 2011, 10, 23-22.	2.6	1
49	Using Mouse Oocytes to Assess Human Gene Function During Meiosis I. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
50	Inhibition of BIN2 extends reproductive lifespan. <i>Nature Aging</i> , 2021, 1, 977-979.	11.6	0
51	Using ZINC08918027 inhibitor to determine Aurora kinase-chromosomal passenger complex isoforms in mouse oocytes. <i>BMC Research Notes</i> , 2022, 15, 96.	1.4	0
52	An analog-sensitive allele of Aurora kinase B is lethal in mouse. <i>MicroPublication Biology</i> , 2021, 2021, .	0.1	0