

Richard M Schultz

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179
papers

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h-index

126
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186
ext. papers

18,543
ext. citations

5.7
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L-index

#	Paper	IF	Citations
179	Pseudogene-derived small interfering RNAs regulate gene expression in mouse oocytes. <i>Nature</i> , 2008 , 453, 534-8	50.4	848
178	Differential effects of culture on imprinted H19 expression in the preimplantation mouse embryo. <i>Biology of Reproduction</i> , 2000 , 62, 1526-35	3.9	620
177	Regulation of zygotic gene activation in the mouse. <i>BioEssays</i> , 1993 , 15, 531-8	4.1	482
176	Regulation of transcriptional activity during the first and second cell cycles in the preimplantation mouse embryo. <i>Developmental Biology</i> , 1997 , 181, 296-307	3.1	463
175	Preimplantation development of mouse embryos in KSOM: augmentation by amino acids and analysis of gene expression. <i>Molecular Reproduction and Development</i> , 1995 , 41, 232-8	2.6	451
174	Critical roles for Dicer in the female germline. <i>Genes and Development</i> , 2007 , 21, 682-93	12.6	386
173	The molecular foundations of the maternal to zygotic transition in the preimplantation embryo. <i>Human Reproduction Update</i> , 2002 , 8, 323-31	15.8	364
172	Regulation of mouse oocyte meiotic maturation: implication of a decrease in oocyte cAMP and protein dephosphorylation in commitment to resume meiosis. <i>Developmental Biology</i> , 1983 , 97, 264-73	3.1	362
171	Transcript profiling during preimplantation mouse development. <i>Developmental Biology</i> , 2004 , 272, 483-96	3.1	352
170	Selective loss of imprinting in the placenta following preimplantation development in culture. <i>Development (Cambridge)</i> , 2004 , 131, 3727-35	6.6	332
169	Egg-to-Embryo Transition Is Driven by Differential Responses to Ca ²⁺ Oscillation Number. <i>Developmental Biology</i> , 2002 , 250, 280-291	3.1	325
168	Maternal BRG1 regulates zygotic genome activation in the mouse. <i>Genes and Development</i> , 2006 , 20, 1744-54	12.6	249
167	Cdc25b phosphatase is required for resumption of meiosis during oocyte maturation. <i>Nature Genetics</i> , 2002 , 30, 446-9	36.3	244
166	Long-term effects of culture of preimplantation mouse embryos on behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1595-600	11.5	233
165	Involvement of cAMP-dependent protein kinase and protein phosphorylation in regulation of mouse oocyte maturation. <i>Developmental Biology</i> , 1986 , 114, 453-62	3.1	217
164	Age-associated increase in aneuploidy and changes in gene expression in mouse eggs. <i>Developmental Biology</i> , 2008 , 316, 397-407	3.1	216
163	Effects of embryo culture on global pattern of gene expression in preimplantation mouse embryos. <i>Reproduction</i> , 2004 , 128, 301-11	3.8	216

162	Nuclear m6A reader YTHDC1 regulates alternative polyadenylation and splicing during mouse oocyte development. <i>PLoS Genetics</i> , 2018 , 14, e1007412	6	211
161	RNA transcript profiling during zygotic gene activation in the preimplantation mouse embryo. <i>Developmental Biology</i> , 2005 , 283, 40-57	3.1	198
160	MicroRNA activity is suppressed in mouse oocytes. <i>Current Biology</i> , 2010 , 20, 265-70	6.3	194
159	Transcript profiling during mouse oocyte development and the effect of gonadotropin priming and development in vitro. <i>Developmental Biology</i> , 2005 , 286, 493-506	3.1	191
158	Molecular basis of mammalian egg activation. <i>Current Topics in Developmental Biology</i> , 1995 , 30, 21-62	5.3	190
157	Ca ²⁺ oscillatory pattern in fertilized mouse eggs affects gene expression and development to term. <i>Developmental Biology</i> , 2006 , 300, 534-44	3.1	181
156	Reporter gene expression in G2 of the 1-cell mouse embryo. <i>Developmental Biology</i> , 1993 , 156, 552-6	3.1	168
155	Spontaneous activation of ovulated mouse eggs: time-dependent effects on M-phase exit, cortical granule exocytosis, maternal messenger ribonucleic acid recruitment, and inositol 1,4,5-trisphosphate sensitivity. <i>Biology of Reproduction</i> , 1997 , 57, 743-50	3.9	163
154	RNAi and expression of retrotransposons MuERV-L and IAP in preimplantation mouse embryos. <i>Developmental Biology</i> , 2004 , 269, 276-85	3.1	155
153	Effects of oxygen tension on gene expression in preimplantation mouse embryos. <i>Fertility and Sterility</i> , 2006 , 86, 1252-65, 1265.e1-36	4.8	153
152	Centromere strength provides the cell biological basis for meiotic drive and karyotype evolution in mice. <i>Current Biology</i> , 2014 , 24, 2295-300	6.3	152
151	Transgenic RNA interference reveals role for mouse sperm phospholipase Czeta in triggering Ca ²⁺ oscillations during fertilization. <i>Biology of Reproduction</i> , 2005 , 72, 992-6	3.9	151
150	The Ran GTPase mediates chromatin signaling to control cortical polarity during polar body extrusion in mouse oocytes. <i>Developmental Cell</i> , 2007 , 12, 301-8	10.2	145
149	Transient expression of translation initiation factor eIF-4C during the 2-cell stage of the preimplantation mouse embryo: identification by mRNA differential display and the role of DNA replication in zygotic gene activation. <i>Developmental Biology</i> , 1996 , 174, 190-201	3.1	144
148	Potential role of mitogen-activated protein kinase in pronuclear envelope assembly and disassembly following fertilization of mouse eggs. <i>Biology of Reproduction</i> , 1995 , 53, 692-9	3.9	139
147	Expression patterns of novel genes during mouse preimplantation embryogenesis. <i>Molecular Reproduction and Development</i> , 1994 , 37, 121-9	2.6	136
146	Egg activation events are regulated by the duration of a sustained [Ca ²⁺] _{cyt} signal in the mouse. <i>Developmental Biology</i> , 2005 , 282, 39-54	3.1	135
145	Role of calcium signals in early development. <i>Seminars in Cell and Developmental Biology</i> , 2006 , 17, 324-325		134

144	Acquisition of a transcriptionally permissive state during the 1-cell stage of mouse embryogenesis. <i>Developmental Biology</i> , 1992 , 149, 457-62	3.1	132
143	Histone deacetylase 1 (HDAC1) regulates histone acetylation, development, and gene expression in preimplantation mouse embryos. <i>Developmental Biology</i> , 2008 , 319, 110-20	3.1	125
142	Absence of the DNA-/RNA-binding protein MSY2 results in male and female infertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5755-60	11.5	122
141	Fetuin inhibits zona pellucida hardening and conversion of ZP2 to ZP2f during spontaneous mouse oocyte maturation in vitro in the absence of serum. <i>Biology of Reproduction</i> , 1990 , 43, 891-7	3.9	121
140	Spindle asymmetry drives non-Mendelian chromosome segregation. <i>Science</i> , 2017 , 358, 668-672	33.3	119
139	RNAi in mouse oocytes and preimplantation embryos: effectiveness of hairpin dsRNA. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 287, 1099-104	3.4	115
138	Stage-specific expression of a family of proteins that are major products of zygotic gene activation in the mouse embryo. <i>Developmental Biology</i> , 1991 , 144, 392-404	3.1	109
137	Regulation of zygotic gene activation in the preimplantation mouse embryo: global activation and repression of gene expression. <i>Biology of Reproduction</i> , 2001 , 64, 1713-21	3.9	107
136	Transgenic RNAi in mouse oocytes: a simple and fast approach to study gene function. <i>Developmental Biology</i> , 2003 , 256, 187-93	3.1	106
135	The science of ART. <i>Science</i> , 2002 , 296, 2188-90	33.3	106
134	Egg-induced modifications of the zona pellucida of mouse eggs: effects of microinjected inositol 1,4,5-trisphosphate. <i>Developmental Biology</i> , 1989 , 133, 295-304	3.1	103
133	Program of early development in the mammal: changes in patterns and absolute rates of tubulin and total protein synthesis during oogenesis and early embryogenesis in the mouse. <i>Developmental Biology</i> , 1979 , 68, 341-59	3.1	103
132	Evidence that a defective spindle assembly checkpoint is not the primary cause of maternal age-associated aneuploidy in mouse eggs. <i>Biology of Reproduction</i> , 2009 , 81, 768-76	3.9	102
131	Butyrolactone I reversibly inhibits meiotic maturation of bovine oocytes, Without influencing chromosome condensation activity. <i>Biology of Reproduction</i> , 2000 , 62, 292-302	3.9	100
130	P-body loss is concomitant with formation of a messenger RNA storage domain in mouse oocytes. <i>Biology of Reproduction</i> , 2010 , 82, 1008-17	3.9	98
129	Increased incidence of apoptosis in transforming growth factor alpha-deficient mouse blastocysts. <i>Biology of Reproduction</i> , 1998 , 59, 136-44	3.9	98
128	Reprogramming of gene expression during preimplantation development. <i>The Journal of Experimental Zoology</i> , 1999 , 285, 276-82		97
127	Compensatory functions of histone deacetylase 1 (HDAC1) and HDAC2 regulate transcription and apoptosis during mouse oocyte development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E481-9	11.5	96

126	Egg-to-embryo transition is driven by differential responses to Ca(2+) oscillation number. <i>Developmental Biology</i> , 2002 , 250, 280-91	3.1	96
125	The gamma isoform of CaM kinase II controls mouse egg activation by regulating cell cycle resumption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 81-6	11.5	93
124	Maternal depletion of CTCF reveals multiple functions during oocyte and preimplantation embryo development. <i>Development (Cambridge)</i> , 2008 , 135, 2729-38	6.6	92
123	Mouse preimplantation embryo development in vitro: effect of sodium concentration in culture media on RNA synthesis and accumulation and gene expression. <i>Molecular Reproduction and Development</i> , 1994 , 38, 131-41	2.6	92
122	Expression of MSY2 in mouse oocytes and preimplantation embryos. <i>Biology of Reproduction</i> , 2001 , 65, 1260-70	3.9	91
121	Regulation of the polyspermy block in the mouse egg: maturation-dependent differences in cortical granule exocytosis and zona pellucida modifications induced by inositol 1,4,5-trisphosphate and an activator of protein kinase C. <i>Biology of Reproduction</i> , 1993 , 48, 1251-7	3.9	91
120	In vitro culture increases the frequency of stochastic epigenetic errors at imprinted genes in placental tissues from mouse concepti produced through assisted reproductive technologies. <i>Biology of Reproduction</i> , 2014 , 90, 22	3.9	88
119	Acquisition of meiotic competence in mouse oocytes: absolute amounts of p34(cdc2), cyclin B1, cdc25C, and wee1 in meiotically incompetent and competent oocytes. <i>Biology of Reproduction</i> , 2000 , 63, 1610-6	3.9	88
118	Effects of phorbol esters and a diacylglycerol on mouse eggs: inhibition of fertilization and modification of the zona pellucida. <i>Developmental Biology</i> , 1987 , 119, 199-209	3.1	88
117	Ribonucleoside metabolism by mouse oocytes: metabolic cooperativity between the fully grown oocyte and cumulus cells. <i>The Journal of Experimental Zoology</i> , 1980 , 214, 355-64		88
116	The cumulative effect of assisted reproduction procedures on placental development and epigenetic perturbations in a mouse model. <i>Human Molecular Genetics</i> , 2015 , 24, 6975-85	5.6	86
115	Expanded Satellite Repeats Amplify a Discrete CENP-A Nucleosome Assembly Site on Chromosomes that Drive in Female Meiosis. <i>Current Biology</i> , 2017 , 27, 2365-2373.e8	6.3	86
114	Gene expression in mouse oocytes and preimplantation embryos: use of suppression subtractive hybridization to identify oocyte- and embryo-specific genes. <i>Biology of Reproduction</i> , 2003 , 68, 31-9	3.9	86
113	Identification and localization of integrin subunits in oocytes and eggs of the mouse. <i>Molecular Reproduction and Development</i> , 1995 , 40, 211-20	2.6	86
112	Basonuclin: a novel mammalian maternal-effect gene. <i>Development (Cambridge)</i> , 2006 , 133, 2053-62	6.6	84
111	Biochemical studies of mammalian oogenesis: synthesis and stability of various classes of RNA during growth of the mouse oocyte in vitro. <i>Developmental Biology</i> , 1981 , 86, 373-83	3.1	84
110	Stage-dependent redistributions of acetylated histones in nuclei of the early preimplantation mouse embryo. <i>Molecular Reproduction and Development</i> , 1997 , 47, 421-9	2.6	83
109	Absence of non-specific effects of RNA interference triggered by long double-stranded RNA in mouse oocytes. <i>Developmental Biology</i> , 2005 , 286, 464-71	3.1	81

108	Program of early development in the mammal: changes in the patterns and absolute rates of tubulin and total protein synthesis during oocyte growth in the mouse. <i>Developmental Biology</i> , 1979 , 73, 120-33	3.1	80
107	Sculpting the Transcriptome During the Oocyte-to-Embryo Transition in Mouse. <i>Current Topics in Developmental Biology</i> , 2015 , 113, 305-49	5.3	79
106	The first murine zygotic transcription is promiscuous and uncoupled from splicing and 3U processing. <i>EMBO Journal</i> , 2015 , 34, 1523-37	13	79
105	The DNA/RNA-binding protein MSY2 marks specific transcripts for cytoplasmic storage in mouse male germ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 1513-8	11.5	79
104	PKB/AKT is involved in resumption of meiosis in mouse oocytes. <i>Biology of the Cell</i> , 2006 , 98, 111-23	3.5	76
103	Biochemical studies of mammalian oogenesis: kinetics of accumulation of total and poly(A)-containing RNA during growth of the mouse oocyte. <i>The Journal of Experimental Zoology</i> , 1981 , 215, 191-200		76
102	Spatial Regulation of Kinetochore Microtubule Attachments by Destabilization at Spindle Poles in Meiosis I. <i>Current Biology</i> , 2015 , 25, 1835-41	6.3	75
101	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	11.5	74
100	Effect of sodium and betaine in culture media on development and relative rates of protein synthesis in preimplantation mouse embryos in vitro. <i>Molecular Reproduction and Development</i> , 1993 , 35, 24-8	2.6	74
99	Regulation of mouse oocyte growth: probable nutritional role for intercellular communication between follicle cells and oocytes in oocyte growth. <i>The Journal of Experimental Zoology</i> , 1984 , 229, 317-25		73
98	Long terminal repeats power evolution of genes and gene expression programs in mammalian oocytes and zygotes. <i>Genome Research</i> , 2017 , 27, 1384-1394	9.7	72
97	Essential Role for endogenous siRNAs during meiosis in mouse oocytes. <i>PLoS Genetics</i> , 2015 , 11, e1005063		72
96	Aurora kinase B modulates chromosome alignment in mouse oocytes. <i>Molecular Reproduction and Development</i> , 2009 , 76, 1094-105	2.6	72
95	Aurora kinase A controls meiosis I progression in mouse oocytes. <i>Cell Cycle</i> , 2008 , 7, 2368-76	4.7	72
94	Alterations of PLCbeta1 in mouse eggs change calcium oscillatory behavior following fertilization. <i>Developmental Biology</i> , 2007 , 312, 321-30	3.1	72
93	Development of activatable adenylate cyclase in the preimplantation mouse embryo and a role for cyclic AMP in blastocoel formation. <i>Cell</i> , 1986 , 46, 95-103	56.2	72
92	Maturation-associated increase in IP3 receptor type 1: role in conferring increased IP3 sensitivity and Ca ²⁺ oscillatory behavior in mouse eggs. <i>Developmental Biology</i> , 2003 , 254, 163-71	3.1	71
91	Transgenic RNAi-mediated reduction of MSY2 in mouse oocytes results in reduced fertility. <i>Developmental Biology</i> , 2004 , 268, 195-206	3.1	70

90	Histone deacetylase 2 (HDAC2) regulates chromosome segregation and kinetochore function via H4K16 deacetylation during oocyte maturation in mouse. <i>PLoS Genetics</i> , 2013 , 9, e1003377	6	67
89	Stage-specific changes in protein phosphorylation accompanying meiotic maturation of mouse oocytes and fertilization of mouse eggs. <i>The Journal of Experimental Zoology</i> , 1986 , 239, 401-9		67
88	Tough beginnings: alterations in the transcriptome of cloned embryos during the first two cell cycles. <i>Developmental Biology</i> , 2007 , 304, 75-89	3.1	66
87	Maternally recruited DCP1A and DCP2 contribute to messenger RNA degradation during oocyte maturation and genome activation in mouse. <i>Biology of Reproduction</i> , 2013 , 88, 11	3.9	65
86	DNA replication in the 1-cell mouse embryo: stimulatory effect of histone acetylation. <i>Zygote</i> , 1999 , 7, 165-72	1.6	65
85	Temporal patterns of gene expression of G1-S cyclins and cdks during the first and second mitotic cell cycles in mouse embryos. <i>Molecular Reproduction and Development</i> , 1996 , 45, 264-75	2.6	65
84	Regulation of mouse preimplantation development: inhibition of synthesis of proteins in the two-cell embryo that require transcription by inhibitors of cAMP-dependent protein kinase. <i>Developmental Biology</i> , 1989 , 133, 588-99	3.1	63
83	Assessment of DNA damage in individual hamster embryos by comet assay. <i>Molecular Reproduction and Development</i> , 1999 , 54, 1-7	2.6	61
82	Increased CDK1 activity determines the timing of kinetochore-microtubule attachments in meiosis I. <i>Journal of Cell Biology</i> , 2013 , 202, 221-9	7.3	59
81	Calmodulin-dependent protein kinase II triggers mouse egg activation and embryo development in the absence of Ca ²⁺ oscillations. <i>Developmental Biology</i> , 2006 , 296, 388-95	3.1	58
80	RNA-binding properties and translation repression in vitro by germ cell-specific MSY2 protein. <i>Biology of Reproduction</i> , 2002 , 67, 1093-8	3.9	57
79	CDC14B acts through FZR1 (CDH1) to prevent meiotic maturation of mouse oocytes. <i>Biology of Reproduction</i> , 2009 , 80, 795-803	3.9	56
78	Developmental change in TATA-box utilization during preimplantation mouse development. <i>Developmental Biology</i> , 2000 , 218, 275-83	3.1	56
77	Long-Term Retention of CENP-A Nucleosomes in Mammalian Oocytes Underpins Transgenerational Inheritance of Centromere Identity. <i>Current Biology</i> , 2016 , 26, 1110-6	6.3	54
76	Paternal poly (ADP-ribose) metabolism modulates retention of inheritable sperm histones and early embryonic gene expression. <i>PLoS Genetics</i> , 2014 , 10, e1004317	6	53
75	Temporal pattern of IGF-I expression during mouse preimplantation embryogenesis. <i>Molecular Reproduction and Development</i> , 1994 , 37, 21-6	2.6	53
74	Absence of MSY2 in mouse oocytes perturbs oocyte growth and maturation, RNA stability, and the transcriptome. <i>Biology of Reproduction</i> , 2011 , 85, 575-83	3.9	52
73	Activation of a two-cell stage-specific gene following transfer of heterologous nuclei into enucleated mouse embryos. <i>Molecular Reproduction and Development</i> , 1991 , 30, 182-6	2.6	52

72	Minor zygotic gene activation is essential for mouse preimplantation development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6780-E6788	11.5	52
71	Regulation of gene expression in the preimplantation mouse embryo: temporal and spatial patterns of expression of the transcription factor Sp1. <i>Molecular Reproduction and Development</i> , 1997 , 46, 268-77	2.6	50
70	In the absence of the mouse DNA/RNA-binding protein MSY2, messenger RNA instability leads to spermatogenic arrest. <i>Biology of Reproduction</i> , 2007 , 76, 48-54	3.9	49
69	Sox2 modulates reprogramming of gene expression in two-cell mouse embryos. <i>Biology of Reproduction</i> , 2011 , 85, 409-16	3.9	46
68	Acquisition of transcriptional competence in the 1-cell mouse embryo: requirement for recruitment of maternal mRNAs. <i>Molecular Reproduction and Development</i> , 2003 , 64, 270-4	2.6	44
67	Mouse ribosomal RNA genes contain multiple differentially regulated variants. <i>PLoS ONE</i> , 2008 , 3, e1843	3.7	43
66	Modulation of gene expression in the preimplantation mouse embryo by TGF-alpha and TGF-beta. <i>Molecular Reproduction and Development</i> , 1995 , 41, 133-9	2.6	43
65	CDC6 requirement for spindle formation during maturation of mouse oocytes. <i>Biology of Reproduction</i> , 2005 , 72, 188-94	3.9	41
64	UBE2I (UBC9), a SUMO-conjugating enzyme, localizes to nuclear speckles and stimulates transcription in mouse oocytes. <i>Biology of Reproduction</i> , 2008 , 79, 906-13	3.9	40
63	Adult body weight is programmed by a redox-regulated and energy-dependent process during the pronuclear stage in mouse. <i>PLoS ONE</i> , 2011 , 6, e29388	3.7	40
62	Mobilization of Dormant Cnot7 mRNA Promotes Deadenylation of Maternal Transcripts During Mouse Oocyte Maturation. <i>Biology of Reproduction</i> , 2015 , 93, 48	3.9	38
61	CDC2A (CDK1)-mediated phosphorylation of MSY2 triggers maternal mRNA degradation during mouse oocyte maturation. <i>Developmental Biology</i> , 2008 , 321, 205-15	3.1	38
60	The oocyte-to-embryo transition in mouse: past, present, and future. <i>Biology of Reproduction</i> , 2018 , 99, 160-174	3.9	37
59	From egg to embryo: a peripatetic journey. <i>Reproduction</i> , 2005 , 130, 825-8	3.8	35
58	Regulation of mouse preimplantation development: differential effects of CZB medium and Whitten's medium on rates and patterns of protein synthesis in 2-cell embryos. <i>Biology of Reproduction</i> , 1989 , 41, 317-22	3.9	34
57	Cdc25A activity is required for the metaphase II arrest in mouse oocytes. <i>Journal of Cell Science</i> , 2013 , 126, 1081-5	5.3	33
56	Effects of perturbation of cell polarity on molecular markers of sperm-egg binding sites on mouse eggs. <i>Biology of Reproduction</i> , 2000 , 62, 76-84	3.9	33
55	G protein gene expression during mouse oocyte growth and maturation, and preimplantation embryo development. <i>Molecular Reproduction and Development</i> , 1996 , 44, 315-23	2.6	33

54	Role of the first round of DNA replication in reprogramming gene expression in the preimplantation mouse embryo. <i>Molecular Reproduction and Development</i> , 1997 , 47, 430-4	2.6	31
53	Phosphorylated MARCKS: a novel centrosome component that also defines a peripheral subdomain of the cortical actin cap in mouse eggs. <i>Developmental Biology</i> , 2005 , 280, 26-37	3.1	31
52	The CDC14A phosphatase regulates oocyte maturation in mouse. <i>Cell Cycle</i> , 2009 , 8, 1090-8	4.7	30
51	Aurora kinase A drives MTOC biogenesis but does not trigger resumption of meiosis in mouse oocytes matured in vivo. <i>Biology of Reproduction</i> , 2012 , 87, 85	3.9	29
50	Implication of nucleolar protein SURF6 in ribosome biogenesis and preimplantation mouse development. <i>Biology of Reproduction</i> , 2006 , 75, 690-6	3.9	28
49	Deletion of the DNA/RNA-binding protein MSY2 leads to post-meiotic arrest. <i>Molecular and Cellular Endocrinology</i> , 2006 , 250, 20-4	4.4	28
48	Protein phosphorylation in meiotically competent and incompetent mouse oocytes. <i>Molecular Reproduction and Development</i> , 1988 , 1, 19-25	2.6	28
47	A DNMT3A2-HDAC2 Complex Is Essential for Genomic Imprinting and Genome Integrity in Mouse Oocytes. <i>Cell Reports</i> , 2015 , 13, 1552-60	10.6	27
46	Abundant transcripts from retrotransposons are unstable in fully grown mouse oocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 347, 36-43	3.4	26
45	The effect of blastomere biopsy on preimplantation mouse embryo development and global gene expression. <i>Fertility and Sterility</i> , 2009 , 91, 1462-5	4.8	25
44	RT-PCR-based method to localize the spatial expression of genes in the mouse blastocyst. <i>Molecular Reproduction and Development</i> , 1996 , 44, 171-8	2.6	25
43	Knockdown of RBBP7 unveils a requirement of histone deacetylation for CPC function in mouse oocytes. <i>Cell Cycle</i> , 2014 , 13, 600-11	4.7	24
42	Cyclin A2-CDK2 regulates embryonic gene activation in 1-cell mouse embryos. <i>Developmental Biology</i> , 2005 , 286, 102-13	3.1	24
41	Requirement for RNA-binding activity of MSY2 for cytoplasmic localization and retention in mouse oocytes. <i>Developmental Biology</i> , 2003 , 255, 249-62	3.1	24
40	Regulation of mouse preimplantation development: inhibitory effect of genistein, an inhibitor of tyrosine protein phosphorylation, on cleavage of one-cell embryos. <i>The Journal of Experimental Zoology</i> , 1990 , 256, 44-53		24
39	RBBP4 regulates histone deacetylation and bipolar spindle assembly during oocyte maturation in the mouse. <i>Biology of Reproduction</i> , 2015 , 92, 105	3.9	23
38	Maternal SIN3A regulates reprogramming of gene expression during mouse preimplantation development. <i>Biology of Reproduction</i> , 2015 , 93, 89	3.9	23
37	Role of in maternal mRNA turnover. <i>Life Science Alliance</i> , 2018 , 1, e201800084	5.8	23

36	Rapid, nonradioactive, and quantitative method to analyze zona pellucida modifications in single mouse eggs. <i>Molecular Reproduction and Development</i> , 1994 , 38, 91-3	2.6	22
35	DNA damage response during mouse oocyte maturation. <i>Cell Cycle</i> , 2016 , 15, 546-58	4.7	21
34	Recruitment of Orc6l, a dormant maternal mRNA in mouse oocytes, is essential for DNA replication in 1-cell embryos. <i>Developmental Biology</i> , 2010 , 341, 205-12	3.1	21
33	Protein secretion by the mouse blastocyst: stimulatory effect on secretion into the blastocoel by transforming growth factor-alpha. <i>Molecular Reproduction and Development</i> , 1993 , 34, 396-401	2.6	21
32	Metastasis tumor antigen 2 (MTA2) is involved in proper imprinted expression of H19 and Peg3 during mouse preimplantation development. <i>Biology of Reproduction</i> , 2010 , 83, 1027-35	3.9	20
31	Timing of Plk1 and MPF activation during porcine oocyte maturation. <i>Molecular Reproduction and Development</i> , 2004 , 69, 11-6	2.6	20
30	Identification of candidate maternal-effect genes through comparison of multiple microarray data sets. <i>Mammalian Genome</i> , 2006 , 17, 941-9	3.2	19
29	Inhibition of mouse oocyte cyclic AMP phosphodiesterase by steroid hormones: a possible mechanism for steroid hormone inhibition of oocyte maturation. <i>The Journal of Experimental Zoology</i> , 1987 , 243, 489-93		19
28	Active H3K27me3 demethylation by KDM6B is required for normal development of bovine preimplantation embryos. <i>Epigenetics</i> , 2017 , 12, 1048-1056	5.7	18
27	Initiation of a chromatin-based transcriptionally repressive state in the preimplantation mouse embryo: lack of a primary role for expression of somatic histone H1. <i>Molecular Reproduction and Development</i> , 2000 , 55, 241-8	2.6	17
26	Protein secretion by the mouse blastocyst: differences in the polypeptide composition secreted into the blastocoel and medium. <i>Biology of Reproduction</i> , 1991 , 45, 328-33	3.9	17
25	Cell Biology of Cheating-Transmission of Centromeres and Other Selfish Elements Through Asymmetric Meiosis. <i>Progress in Molecular and Subcellular Biology</i> , 2017 , 56, 377-396	3	15
24	Zygotic gene activation in the mouse embryo: involvement of cyclic adenosine monophosphate-dependent protein kinase and appearance of an AP-1-like activity. <i>Molecular Reproduction and Development</i> , 1992 , 32, 209-16	2.6	14
23	Of light and mouse embryos: less is more. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14547-8	11.5	13
22	Differential action of sulfated glycosaminoglycans on follicle-stimulating hormone-induced functions of cumuli oophori isolated from mice. <i>Biology of Reproduction</i> , 1982 , 27, 399-406	3.9	13
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