

# Richard M Schultz

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179  
papers

16,872  
citations

76  
h-index

126  
g-index

186  
ext. papers

18,543  
ext. citations

5.7  
avg. IF

6.59  
L-index

#	Paper	IF	Citations
179	Placental Abnormalities are Associated With Specific Windows of Embryo Culture in a Mouse Model.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2022</b> , 10, 884088	5.7	1
178	Sex-specific effects of in vitro fertilization on adult metabolic outcomes and hepatic transcriptome and proteome in mouse. <i>FASEB Journal</i> , <b>2021</b> , 35, e21523	0.9	2
177	Challenges to making an egg. <i>Nature Cell Biology</i> , <b>2021</b> , 23, 9-10	23.4	2
176	Assisted reproductive technologies induce temporally specific placental defects and the preeclampsia risk marker sFLT1 in mouse. <i>Development (Cambridge)</i> , <b>2020</b> , 147,	6.6	9
175	Transcript profiling of bovine embryos implicates specific transcription factors in the maternal-to-embryo transition. <i>Biology of Reproduction</i> , <b>2020</b> , 102, 671-679	3.9	5
174	Chromatin remodeling in bovine embryos indicates species-specific regulation of genome activation. <i>Nature Communications</i> , <b>2020</b> , 11, 4654	17.4	13
173	Paternal genome rescues mouse preimplantation embryo development in the absence of maternally-recruited EZH2 activity. <i>Epigenetics</i> , <b>2019</b> , 14, 94-108	5.7	3
172	The oocyte-to-embryo transition in mouse: past, present, and future. <i>Biology of Reproduction</i> , <b>2018</b> , 99, 160-174	3.9	37
171	Nuclear m6A reader YTHDC1 regulates alternative polyadenylation and splicing during mouse oocyte development. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007412	6	211
170	Role of in maternal mRNA turnover. <i>Life Science Alliance</i> , <b>2018</b> , 1, e201800084	5.8	23
169	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> , <b>2018</b> , 115, E6780-E6788	11.5	52
168	Long terminal repeats power evolution of genes and gene expression programs in mammalian oocytes and zygotes. <i>Genome Research</i> , <b>2017</b> , 27, 1384-1394	9.7	72
167	Spindle asymmetry drives non-Mendelian chromosome segregation. <i>Science</i> , <b>2017</b> , 358, 668-672	33.3	119
166	Cell Biology of Cheating-Transmission of Centromeres and Other Selfish Elements Through Asymmetric Meiosis. <i>Progress in Molecular and Subcellular Biology</i> , <b>2017</b> , 56, 377-396	3	15
165	Expanded Satellite Repeats Amplify a Discrete CENP-A Nucleosome Assembly Site on Chromosomes that Drive in Female Meiosis. <i>Current Biology</i> , <b>2017</b> , 27, 2365-2373.e8	6.3	86
164	Active H3K27me3 demethylation by KDM6B is required for normal development of bovine preimplantation embryos. <i>Epigenetics</i> , <b>2017</b> , 12, 1048-1056	5.7	18
163	DNA damage response during mouse oocyte maturation. <i>Cell Cycle</i> , <b>2016</b> , 15, 546-58	4.7	21

162	Morphokinetic Evaluation of Embryo Development in a Mouse Model: Functional and Molecular Correlates. <i>Biology of Reproduction</i> , <b>2016</b> , 94, 84	3.9	13
161	Long-Term Retention of CENP-A Nucleosomes in Mammalian Oocytes Underpins Transgenerational Inheritance of Centromere Identity. <i>Current Biology</i> , <b>2016</b> , 26, 1110-6	6.3	54
160	Sculpting the Transcriptome During the Oocyte-to-Embryo Transition in Mouse. <i>Current Topics in Developmental Biology</i> , <b>2015</b> , 113, 305-49	5.3	79
159	Spatial Regulation of Kinetochore Microtubule Attachments by Destabilization at Spindle Poles in Meiosis I. <i>Current Biology</i> , <b>2015</b> , 25, 1835-41	6.3	75
158	Essential Role for endogenous siRNAs during meiosis in mouse oocytes. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005063		72
157	The first murine zygotic transcription is promiscuous and uncoupled from splicing and 3U processing. <i>EMBO Journal</i> , <b>2015</b> , 34, 1523-37	13	79
156	RBBP4 regulates histone deacetylation and bipolar spindle assembly during oocyte maturation in the mouse. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 105	3.9	23
155	Maternal SIN3A regulates reprogramming of gene expression during mouse preimplantation development. <i>Biology of Reproduction</i> , <b>2015</b> , 93, 89	3.9	23
154	The cumulative effect of assisted reproduction procedures on placental development and epigenetic perturbations in a mouse model. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 6975-85	5.6	86
153	Mobilization of Dormant Cnot7 mRNA Promotes Deadenylation of Maternal Transcripts During Mouse Oocyte Maturation. <i>Biology of Reproduction</i> , <b>2015</b> , 93, 48	3.9	38
152	Accelerated reproductive aging in females lacking a novel centromere protein SYCP2L. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 6505-14	5.6	12
151	A DNMT3A2-HDAC2 Complex Is Essential for Genomic Imprinting and Genome Integrity in Mouse Oocytes. <i>Cell Reports</i> , <b>2015</b> , 13, 1552-60	10.6	27
150	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> , <b>2014</b> , 90, 22	3.9	88
149	Centromere strength provides the cell biological basis for meiotic drive and karyotype evolution in mice. <i>Current Biology</i> , <b>2014</b> , 24, 2295-300	6.3	152
148	Specificity of calcium/calmodulin-dependent protein kinases in mouse egg activation. <i>Cell Cycle</i> , <b>2014</b> , 13, 1482-8	4.7	3
147	Paternal poly (ADP-ribose) metabolism modulates retention of inheritable sperm histones and early embryonic gene expression. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004317	6	53
146	Knockdown of RBBP7 unveils a requirement of histone deacetylation for CPC function in mouse oocytes. <i>Cell Cycle</i> , <b>2014</b> , 13, 600-11	4.7	24
145	Cdc25A activity is required for the metaphase II arrest in mouse oocytes. <i>Journal of Cell Science</i> , <b>2013</b> , 126, 1081-5	5.3	33

144	Increased CDK1 activity determines the timing of kinetochore-microtubule attachments in meiosis I. <i>Journal of Cell Biology</i> , <b>2013</b> , 202, 221-9	7.3	59
143	Histone deacetylase 2 (HDAC2) regulates chromosome segregation and kinetochore function via H4K16 deacetylation during oocyte maturation in mouse. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003377	6	67
142	Maternally recruited DCP1A and DCP2 contribute to messenger RNA degradation during oocyte maturation and genome activation in mouse. <i>Biology of Reproduction</i> , <b>2013</b> , 88, 11	3.9	65
141	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> , <b>2012</b> , 109, E481-9	11.5	96
140	Aurora kinase A drives MTOC biogenesis but does not trigger resumption of meiosis in mouse oocytes matured in vivo. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 85	3.9	29
139	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> , <b>2012</b> , 109, E2215-22	11.5	74
138	Expression of variant ribosomal RNA genes in mouse oocytes and preimplantation embryos. <i>Biology of Reproduction</i> , <b>2011</b> , 84, 944-6	3.9	8
137	Absence of MSY2 in mouse oocytes perturbs oocyte growth and maturation, RNA stability, and the transcriptome. <i>Biology of Reproduction</i> , <b>2011</b> , 85, 575-83	3.9	52
136	Sox2 modulates reprogramming of gene expression in two-cell mouse embryos. <i>Biology of Reproduction</i> , <b>2011</b> , 85, 409-16	3.9	46
135	Adult body weight is programmed by a redox-regulated and energy-dependent process during the pronuclear stage in mouse. <i>PLoS ONE</i> , <b>2011</b> , 6, e29388	3.7	40
134	Metastasis tumor antigen 2 (MTA2) is involved in proper imprinted expression of H19 and Peg3 during mouse preimplantation development. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 1027-35	3.9	20
133	Gene expression profiling of mouse oocytes and preimplantation embryos. <i>Methods in Enzymology</i> , <b>2010</b> , 477, 457-80	1.7	6
132	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> , <b>2010</b> , 107, 81-6	11.5	93
131	P-body loss is concomitant with formation of a messenger RNA storage domain in mouse oocytes. <i>Biology of Reproduction</i> , <b>2010</b> , 82, 1008-17	3.9	98
130	Recruitment of Orc6l, a dormant maternal mRNA in mouse oocytes, is essential for DNA replication in 1-cell embryos. <i>Developmental Biology</i> , <b>2010</b> , 341, 205-12	3.1	21
129	MicroRNA activity is suppressed in mouse oocytes. <i>Current Biology</i> , <b>2010</b> , 20, 265-70	6.3	194
128	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> , <b>2009</b> , 81, 768-76	3.9	102
127	CDC14B acts through FZR1 (CDH1) to prevent meiotic maturation of mouse oocytes. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 795-803	3.9	56

126	Overexpression of CDC14B causes mitotic arrest and inhibits zygotic genome activation in mouse preimplantation embryos. <i>Cell Cycle</i> , <b>2009</b> , 8, 3904-13	4.7	11
125	Aurora kinase B modulates chromosome alignment in mouse oocytes. <i>Molecular Reproduction and Development</i> , <b>2009</b> , 76, 1094-105	2.6	72
124	The effect of blastomere biopsy on preimplantation mouse embryo development and global gene expression. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 1462-5	4.8	25
123	The CDC14A phosphatase regulates oocyte maturation in mouse. <i>Cell Cycle</i> , <b>2009</b> , 8, 1090-8	4.7	30
122	PKA and CDC25B: at last connected. <i>Cell Cycle</i> , <b>2009</b> , 8, 516-7	4.7	3
121	Pseudogene-derived small interfering RNAs regulate gene expression in mouse oocytes. <i>Nature</i> , <b>2008</b> , 453, 534-8	50.4	848
120	Age-associated increase in aneuploidy and changes in gene expression in mouse eggs. <i>Developmental Biology</i> , <b>2008</b> , 316, 397-407	3.1	216
119	CDC2A (CDK1)-mediated phosphorylation of MSY2 triggers maternal mRNA degradation during mouse oocyte maturation. <i>Developmental Biology</i> , <b>2008</b> , 321, 205-15	3.1	38
118	Histone deacetylase 1 (HDAC1) regulates histone acetylation, development, and gene expression in preimplantation mouse embryos. <i>Developmental Biology</i> , <b>2008</b> , 319, 110-20	3.1	125
117	Maternal depletion of CTCF reveals multiple functions during oocyte and preimplantation embryo development. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 2729-38	6.6	92
116	Aurora kinase A controls meiosis I progression in mouse oocytes. <i>Cell Cycle</i> , <b>2008</b> , 7, 2368-76	4.7	72
115	UBE2I (UBC9), a SUMO-conjugating enzyme, localizes to nuclear speckles and stimulates transcription in mouse oocytes. <i>Biology of Reproduction</i> , <b>2008</b> , 79, 906-13	3.9	40
114	Mouse ribosomal RNA genes contain multiple differentially regulated variants. <i>PLoS ONE</i> , <b>2008</b> , 3, e1843	3.7	43
113	Critical roles for Dicer in the female germline. <i>Genes and Development</i> , <b>2007</b> , 21, 682-93	12.6	386
112	In the absence of the mouse DNA/RNA-binding protein MSY2, messenger RNA instability leads to spermatogenic arrest. <i>Biology of Reproduction</i> , <b>2007</b> , 76, 48-54	3.9	49
111	Of light and mouse embryos: less is more. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 14547-8	11.5	13
110	Tough beginnings: alterations in the transcriptome of cloned embryos during the first two cell cycles. <i>Developmental Biology</i> , <b>2007</b> , 304, 75-89	3.1	66
109	Alterations of PLCbeta1 in mouse eggs change calcium oscillatory behavior following fertilization. <i>Developmental Biology</i> , <b>2007</b> , 312, 321-30	3.1	72

108	The Ran GTPase mediates chromatin signaling to control cortical polarity during polar body extrusion in mouse oocytes. <i>Developmental Cell</i> , <b>2007</b> , 12, 301-8	10.2	145
107	Implication of nucleolar protein SURF6 in ribosome biogenesis and preimplantation mouse development. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 690-6	3.9	28
106	Maternal BRG1 regulates zygotic genome activation in the mouse. <i>Genes and Development</i> , <b>2006</b> , 20, 1744-54	12.6	249
105	Basonuclin: a novel mammalian maternal-effect gene. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 2053-62	6.6	84
104	PKB/AKT is involved in resumption of meiosis in mouse oocytes. <i>Biology of the Cell</i> , <b>2006</b> , 98, 111-23	3.5	76
103	Effects of oxygen tension on gene expression in preimplantation mouse embryos. <i>Fertility and Sterility</i> , <b>2006</b> , 86, 1252-65, 1265.e1-36	4.8	153
102	Abundant transcripts from retrotransposons are unstable in fully grown mouse oocytes. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 347, 36-43	3.4	26
101	Deletion of the DNA/RNA-binding protein MSY2 leads to post-meiotic arrest. <i>Molecular and Cellular Endocrinology</i> , <b>2006</b> , 250, 20-4	4.4	28
100	Role of calcium signals in early development. <i>Seminars in Cell and Developmental Biology</i> , <b>2006</b> , 17, 324-325		134
99	Calmodulin-dependent protein kinase II triggers mouse egg activation and embryo development in the absence of Ca <sup>2+</sup> oscillations. <i>Developmental Biology</i> , <b>2006</b> , 296, 388-95	3.1	58
98	Ca <sup>2+</sup> oscillatory pattern in fertilized mouse eggs affects gene expression and development to term. <i>Developmental Biology</i> , <b>2006</b> , 300, 534-44	3.1	181
97	Identification of candidate maternal-effect genes through comparison of multiple microarray data sets. <i>Mammalian Genome</i> , <b>2006</b> , 17, 941-9	3.2	19
96	Phosphorylated MARCKS: a novel centrosome component that also defines a peripheral subdomain of the cortical actin cap in mouse eggs. <i>Developmental Biology</i> , <b>2005</b> , 280, 26-37	3.1	31
95	Egg activation events are regulated by the duration of a sustained [Ca <sup>2+</sup> ] <sub>cyt</sub> signal in the mouse. <i>Developmental Biology</i> , <b>2005</b> , 282, 39-54	3.1	135
94	RNA transcript profiling during zygotic gene activation in the preimplantation mouse embryo. <i>Developmental Biology</i> , <b>2005</b> , 283, 40-57	3.1	198
93	Cyclin A2-CDK2 regulates embryonic gene activation in 1-cell mouse embryos. <i>Developmental Biology</i> , <b>2005</b> , 286, 102-13	3.1	24
92	Absence of non-specific effects of RNA interference triggered by long double-stranded RNA in mouse oocytes. <i>Developmental Biology</i> , <b>2005</b> , 286, 464-71	3.1	81
91	Transcript profiling during mouse oocyte development and the effect of gonadotropin priming and development in vitro. <i>Developmental Biology</i> , <b>2005</b> , 286, 493-506	3.1	191

90	From egg to embryo: a peripatetic journey. <i>Reproduction</i> , <b>2005</b> , 130, 825-8	3.8	35
89	Transgenic RNA interference reveals role for mouse sperm phospholipase C $\zeta$ in triggering Ca <sup>2+</sup> oscillations during fertilization. <i>Biology of Reproduction</i> , <b>2005</b> , 72, 992-6	3.9	151
88	CDC6 requirement for spindle formation during maturation of mouse oocytes. <i>Biology of Reproduction</i> , <b>2005</b> , 72, 188-94	3.9	41
87	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> , <b>2005</b> , 102, 5755-60	11.5	122
86	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> , <b>2005</b> , 102, 1513-8	11.5	79
85	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> , <b>2004</b> , 101, 1595-600	11.5	233
84	Timing of Plk1 and MPF activation during porcine oocyte maturation. <i>Molecular Reproduction and Development</i> , <b>2004</b> , 69, 11-6	2.6	20
83	Effects of embryo culture on global pattern of gene expression in preimplantation mouse embryos. <i>Reproduction</i> , <b>2004</b> , 128, 301-11	3.8	216
82	Selective loss of imprinting in the placenta following preimplantation development in culture. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 3727-35	6.6	332
81	Transgenic RNAi-mediated reduction of MSY2 in mouse oocytes results in reduced fertility. <i>Developmental Biology</i> , <b>2004</b> , 268, 195-206	3.1	70
80	RNAi and expression of retrotransposons MuERV-L and IAP in preimplantation mouse embryos. <i>Developmental Biology</i> , <b>2004</b> , 269, 276-85	3.1	155
79	Transcript profiling during preimplantation mouse development. <i>Developmental Biology</i> , <b>2004</b> , 272, 483-96	3.1	352
78	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> , <b>2003</b> , 68, 31-9	3.9	86
77	Acquisition of transcriptional competence in the 1-cell mouse embryo: requirement for recruitment of maternal mRNAs. <i>Molecular Reproduction and Development</i> , <b>2003</b> , 64, 270-4	2.6	44
76	Maturation-associated increase in IP3 receptor type 1: role in conferring increased IP3 sensitivity and Ca <sup>2+</sup> oscillatory behavior in mouse eggs. <i>Developmental Biology</i> , <b>2003</b> , 254, 163-71	3.1	71
75	Requirement for RNA-binding activity of MSY2 for cytoplasmic localization and retention in mouse oocytes. <i>Developmental Biology</i> , <b>2003</b> , 255, 249-62	3.1	24
74	Transgenic RNAi in mouse oocytes: a simple and fast approach to study gene function. <i>Developmental Biology</i> , <b>2003</b> , 256, 187-93	3.1	106
73	Cdc25b phosphatase is required for resumption of meiosis during oocyte maturation. <i>Nature Genetics</i> , <b>2002</b> , 30, 446-9	36.3	244

72	The science of ART. <i>Science</i> , <b>2002</b> , 296, 2188-90	33.3	106
71	RNA-binding properties and translation repression in vitro by germ cell-specific MSY2 protein. <i>Biology of Reproduction</i> , <b>2002</b> , 67, 1093-8	3.9	57
70	The molecular foundations of the maternal to zygotic transition in the preimplantation embryo. <i>Human Reproduction Update</i> , <b>2002</b> , 8, 323-31	15.8	364
69	Egg-to-Embryo Transition Is Driven by Differential Responses to Ca <sup>2+</sup> Oscillation Number. <i>Developmental Biology</i> , <b>2002</b> , 250, 280-291	3.1	325
68	Egg-to-embryo transition is driven by differential responses to Ca(2+) oscillation number. <i>Developmental Biology</i> , <b>2002</b> , 250, 280-91	3.1	96
67	Expression of MSY2 in mouse oocytes and preimplantation embryos. <i>Biology of Reproduction</i> , <b>2001</b> , 65, 1260-70	3.9	91
66	Regulation of zygotic gene activation in the preimplantation mouse embryo: global activation and repression of gene expression. <i>Biology of Reproduction</i> , <b>2001</b> , 64, 1713-21	3.9	107
65	RNAi in mouse oocytes and preimplantation embryos: effectiveness of hairpin dsRNA. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 287, 1099-104	3.4	115
64	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> , <b>2000</b> , 55, 241-8	2.6	17
63	Differential effects of culture on imprinted H19 expression in the preimplantation mouse embryo. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1526-35	3.9	620
62	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> , <b>2000</b> , 63, 1610-6	3.9	88
61	Effects of perturbation of cell polarity on molecular markers of sperm-egg binding sites on mouse eggs. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 76-84	3.9	33
60	Butyrolactone I reversibly inhibits meiotic maturation of bovine oocytes, Without influencing chromosome condensation activity. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 292-302	3.9	100
59	Developmental change in TATA-box utilization during preimplantation mouse development. <i>Developmental Biology</i> , <b>2000</b> , 218, 275-83	3.1	56
58	Assessment of DNA damage in individual hamster embryos by comet assay. <i>Molecular Reproduction and Development</i> , <b>1999</b> , 54, 1-7	2.6	61
57	Reprogramming of gene expression during preimplantation development. <i>The Journal of Experimental Zoology</i> , <b>1999</b> , 285, 276-82		97
56	DNA replication in the 1-cell mouse embryo: stimulatory effect of histone acetylation. <i>Zygote</i> , <b>1999</b> , 7, 165-72	1.6	65
55	Increased incidence of apoptosis in transforming growth factor alpha-deficient mouse blastocysts. <i>Biology of Reproduction</i> , <b>1998</b> , 59, 136-44	3.9	98



54	Molecular cloning and expression of the mouse translation initiation factor eIF-1A. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 4739-47	20.1	9
53	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> , <b>1997</b> , 57, 743-50	3.9	163
52	Regulation of transcriptional activity during the first and second cell cycles in the preimplantation mouse embryo. <i>Developmental Biology</i> , <b>1997</b> , 181, 296-307	3.1	463
51	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> , <b>1997</b> , 46, 268-77	2.6	50
50	Stage-dependent redistributions of acetylated histones in nuclei of the early preimplantation mouse embryo. <i>Molecular Reproduction and Development</i> , <b>1997</b> , 47, 421-9	2.6	83
49	Role of the first round of DNA replication in reprogramming gene expression in the preimplantation mouse embryo. <i>Molecular Reproduction and Development</i> , <b>1997</b> , 47, 430-4	2.6	31
48	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> , <b>1996</b> , 174, 190-201	3.1	144
47	RT-PCR-based method to localize the spatial expression of genes in the mouse blastocyst. <i>Molecular Reproduction and Development</i> , <b>1996</b> , 44, 171-8	2.6	25
46	G protein gene expression during mouse oocyte growth and maturation, and preimplantation embryo development. <i>Molecular Reproduction and Development</i> , <b>1996</b> , 44, 315-23	2.6	33
45	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> , <b>1996</b> , 45, 264-75	2.6	65
44	Molecular basis of mammalian egg activation. <i>Current Topics in Developmental Biology</i> , <b>1995</b> , 30, 21-62	5.3	190
43	Potential role of mitogen-activated protein kinase in pronuclear envelope assembly and disassembly following fertilization of mouse eggs. <i>Biology of Reproduction</i> , <b>1995</b> , 53, 692-9	3.9	139
42	Identification and localization of integrin subunits in oocytes and eggs of the mouse. <i>Molecular Reproduction and Development</i> , <b>1995</b> , 40, 211-20	2.6	86
41	Modulation of gene expression in the preimplantation mouse embryo by TGF-alpha and TGF-beta. <i>Molecular Reproduction and Development</i> , <b>1995</b> , 41, 133-9	2.6	43
40	Preimplantation development of mouse embryos in KSOM: augmentation by amino acids and analysis of gene expression. <i>Molecular Reproduction and Development</i> , <b>1995</b> , 41, 232-8	2.6	451
39	Temporal pattern of IGF-I expression during mouse preimplantation embryogenesis. <i>Molecular Reproduction and Development</i> , <b>1994</b> , 37, 21-6	2.6	53
38	Expression patterns of novel genes during mouse preimplantation embryogenesis. <i>Molecular Reproduction and Development</i> , <b>1994</b> , 37, 121-9	2.6	136
37	Rapid, nonradioactive, and quantitative method to analyze zona pellucida modifications in single mouse eggs. <i>Molecular Reproduction and Development</i> , <b>1994</b> , 38, 91-3	2.6	22

36	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> , <b>1994</b> , 38, 131-41	2.6	92
35	Reporter gene expression in G2 of the 1-cell mouse embryo. <i>Developmental Biology</i> , <b>1993</b> , 156, 552-6	3.1	168
34	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> , <b>1993</b> , 48, 1251-7	3.9	91
33	Regulation of zygotic gene activation in the mouse. <i>BioEssays</i> , <b>1993</b> , 15, 531-8	4.1	482
32	Protein secretion by the mouse blastocyst: stimulatory effect on secretion into the blastocoel by transforming growth factor-alpha. <i>Molecular Reproduction and Development</i> , <b>1993</b> , 34, 396-401	2.6	21
31	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> , <b>1993</b> , 35, 24-8	2.6	74
30	Acquisition of a transcriptionally permissive state during the 1-cell stage of mouse embryogenesis. <i>Developmental Biology</i> , <b>1992</b> , 149, 457-62	3.1	132
29	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> , <b>1992</b> , 32, 209-16	2.6	14
28	Changes in cAMP phosphodiesterase activity and cAMP concentration during mouse preimplantation development. <i>Molecular Reproduction and Development</i> , <b>1992</b> , 32, 349-53	2.6	6
27	Activation of a two-cell stage-specific gene following transfer of heterologous nuclei into enucleated mouse embryos. <i>Molecular Reproduction and Development</i> , <b>1991</b> , 30, 182-6	2.6	52
26	Protein secretion by the mouse blastocyst: differences in the polypeptide composition secreted into the blastocoel and medium. <i>Biology of Reproduction</i> , <b>1991</b> , 45, 328-33	3.9	17
25	Stage-specific expression of a family of proteins that are major products of zygotic gene activation in the mouse embryo. <i>Developmental Biology</i> , <b>1991</b> , 144, 392-404	3.1	109
24	Regulation of mouse preimplantation development: inhibitory effect of the calmodulin antagonist W-7 on the first cleavage. <i>Molecular Reproduction and Development</i> , <b>1990</b> , 26, 211-6	2.6	11
23	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> , <b>1990</b> , 256, 44-53		24
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21	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> , <b>1989</b> , 41, 317-22	3.9	34
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16	Effects of phorbol esters and a diacylglycerol on mouse eggs: inhibition of fertilization and modification of the zona pellucida. <i>Developmental Biology</i> , <b>1987</b> , 119, 199-209	3.1	88
15	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> , <b>1987</b> , 243, 489-93		19
14	Stage-specific changes in protein phosphorylation accompanying meiotic maturation of mouse oocytes and fertilization of mouse eggs. <i>The Journal of Experimental Zoology</i> , <b>1986</b> , 239, 401-9		67
13	Involvement of cAMP-dependent protein kinase and protein phosphorylation in regulation of mouse oocyte maturation. <i>Developmental Biology</i> , <b>1986</b> , 114, 453-62	3.1	217
12	Development of activatable adenylate cyclase in the preimplantation mouse embryo and a role for cyclic AMP in blastocoel formation. <i>Cell</i> , <b>1986</b> , 46, 95-103	56.2	72
11	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> , <b>1984</b> , 229, 317-25		73
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3	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> , <b>1979</b> , 73, 120-33	3.1	80
2	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> , <b>1979</b> , 68, 341-59	3.1	103
1	Chromatin remodeling in bovine embryos indicates species-specific regulation of genome activation		3

