Ryuzo Yanagimachi

List of Publications by Year
in descending order

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142 papers	14,620 citations	12330 69 h-index	19190 118 g-index
143 all docs	143 docs citations	143 times ranked	6172 citing authors

#	Article	IF	Citations
1	Epigenetic Instability in ES Cells and Cloned Mice. Science, 2001, 293, 95-97.	12.6	687
2	Cloning of male mice from adult tail-tip cells. Nature Genetics, 1999, 22, 127-128.	21.4	443
3	Direct analysis of the chromosome constitution of human spermatozoa. Nature, 1978, 274, 911-913.	27.8	424
4	Is calcium ionophore a universal activator for unfertilised eggs?. Nature, 1974, 252, 41-43.	27.8	412
5	Incomplete reactivation of Oct4-related genes in mouse embryos cloned from somatic nuclei. Development (Cambridge), 2003, 130, 1673-1680.	2.5	406
6	Mammalian Transgenesis by Intracytoplasmic Sperm Injection. Science, 1999, 284, 1180-1183.	12.6	381
7	Abnormal gene expression in cloned mice derived from embryonic stem cell and cumulus cell nuclei. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12889-12894.	7.1	381
8	The Effects of Sperm Extracts and Energy Sources on the Motility and Acrosome Reaction of Hamster Spermatozoa in vitro. Biology of Reproduction, 1977, 16, 228-237.	2.7	360
9	Cloned mice have an obese phenotype not transmitted to their offspring. Nature Medicine, 2002, 8, 262-267.	30.7	345
10	Penetration of Human Spermatozoa into the Human Zona Pellucida and the Zona-Free Hamster Egg: A Study of Fertile Donors and Infertile Patients**Supported in part by a grant from the International Planned Parenthood Federation (to R. Y.).. Fertility and Sterility, 1980, 33, 534-542.	1.0	340
11	Development of normal mice from oocytes injected with freeze-dried spermatozoa. Nature Biotechnology, 1998, 16, 639-641.	17.5	333
12	Generation of mice from wild-type and targeted ES cells by nuclear cloning. Nature Genetics, 2000, 24, 109-110.	21.4	327
13	Mouse cloning with nucleus donor cells of different age and type. Molecular Reproduction and Development, 2001, 58, 376-383.	2.0	306
14	Cloning of mice to six generations. Nature, 2000, 407, 318-319.	27.8	242
15	X-Chromosome Inactivation in Cloned Mouse Embryos. Science, 2000, 290, 1578-1581.	12.6	240
16	Retention of Biologic Characteristics of Zona Pellucida in Highly Concentrated Salt Solution: The Use of Salt-Stored Eggs for Assessing the Fertilizing Capacity of Spermatozoa. Fertility and Sterility, 1979, 31, 562-574.	1.0	221
17	Behavior of hamster sperm nuclei incorporated into eggs at various stages of maturation, fertilization, and early development. The appearance and disappearance of factors involved in sperm chromatin decondensation in egg cytoplasm. Journal of Ultrastructure Research, 1976, 57, 276-288.	1.1	213
18	DNA methylation variation in cloned mice. Genesis, 2001, 30, 45-50.	1.6	212

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19	Placentomegaly in Cloned Mouse Concepti Caused by Expansion of the Spongiotrophoblast Layer1. Biology of Reproduction, 2001, 65, 1813-1821.	2.7	209
20	The Viability of Hamster Spermatozoa Stored in the Isthmus of the Oviduct: The Importance of Sperm-Epithelium Contact for Sperm Survival1. Biology of Reproduction, 1990, 42, 450-457.	2.7	189
21	Effects of various lipids on the acrosome reaction and fertilizing capacity of guinea pig spermatozoa with special reference to the possible involvement of lysophospholipids in the acrosome reaction. Gamete Research, 1981, 4, 253-273.	1.7	188
22	Maturation and sperm penetration of canine ovarian oocytes in vitro. The Journal of Experimental Zoology, 1976, 196, 189-195.	1.4	184
23	Intracytoplasmic injection of spermatozoa and spermatogenic cells: its biology and applications in humans and animals. Reproductive BioMedicine Online, 2005, 10, 247-288.	2.4	172
24	Decline in fertility of mouse sperm with abnormal chromatin during epididymal passage as revealed by ICSI. Human Reproduction, 2005, 20, 3101-3108.	0.9	170
25	Transition nuclear proteins are required for normal chromatin condensation and functional sperm development. Genesis, 2004, 38, 200-213.	1.6	169
26	Freeze-Dried Sperm Fertilization Leads to Full-Term Development in Rabbits1. Biology of Reproduction, 2004, 70, 1776-1781.	2.7	167
27	Reprogramming of primordial germ cells begins before migration into the genital ridge, making these cells inadequate donors for reproductive cloning. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12207-12212.	7.1	166
28	Postnatal Growth and Behavioral Development of Mice Cloned from Adult Cumulus Cells1. Biology of Reproduction, 2000, 63, 328-334.	2.7	155
29	The status of acrosomal caps of hamster spermatozoa immediately before fertilization in vivo. Gamete Research, 1984, 9, 1-19.	1.7	150
30	Effects of light on development of mammalian zygotes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14289-14293.	7.1	147
31	Lack of Spem1 causes aberrant cytoplasm removal, sperm deformation, and male infertility. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6852-6857.	7.1	145
32	Nuclear transfer into mouse zygotes. Nature Genetics, 2000, 24, 108-109.	21.4	144
33	Effects of Human Seminal Plasma on Fertilizing Capacity of Human Spermatozoa. Fertility and Sterility, 1979, 31, 321-327.	1.0	143
34	Long-Term Preservation of Mouse Spermatozoa after Freeze-Drying and Freezing Without Cryoprotection1. Biology of Reproduction, 2003, 69, 2100-2108.	2.7	141
35	Abnormalities and Reduced Reproductive Potential of Sperm from Tnp1- and Tnp2-Null Double Mutant Mice1. Biology of Reproduction, 2004, 71, 1220-1229.	2.7	136
36	Birth of mice after nuclear transfer by electrofusion using tail tip cells. Molecular Reproduction and Development, 2000, 57, 55-59.	2.0	126

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37	Acrosome-reacted mouse spermatozoa recovered from the perivitelline space can fertilize other eggs. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20008-20011.	7.1	117
38	Sirt1 Deficiency Attenuates Spermatogenesis and Germ Cell Function. PLoS ONE, 2008, 3, e1571.	2.5	116
39	Capacitation, acrosome reaction, and egg penetration by canine spermatozoa in a simple defined medium. Gamete Research, 1978, 1, 101-109.	1.7	115
40	Mouse embryonic stem (ES) cell lines established from neuronal cell-derived cloned blastocysts. Genesis, 2000, 28, 156-163.	1.6	115
41	An Intact Sperm Nuclear Matrix May Be Necessary for the Mouse Paternal Genome to Participate in Embryonic Development1. Biology of Reproduction, 1999, 60, 702-706.	2.7	109
42	Behavior of Mouse Spermatozoa in the Female Reproductive Tract from Soon after Mating to the Beginning of Fertilization1. Biology of Reproduction, 2016, 94, 80.	2.7	108
43	Sonication Per Se Is Not as Deleterious to Sperm Chromosomes as Previously Inferred1. Biology of Reproduction, 2000, 63, 341-346.	2.7	106
44	Sperm acrosome reaction: its site and role in fertilizationâ€. Biology of Reproduction, 2018, 99, 127-133.	2.7	100
45	What functions of the sperm cell are measured by in vitro fertilization of zona-free hamster eggs?. Fertility and Sterility, 1983, 40, 344-352.	1.0	98
46	A glycoprotein of oviductal origin alters biochemical properties of the zona pellucida of hamster egg. Gamete Research, 1988, 19, 113-122.	1.7	98
47	Simultaneous removal of sperm plasma membrane and acrosome before intracytoplasmic sperm injection improves oocyte activation/embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17661-17666.	7.1	97
48	Effect of pH Value of Freeze-Drying Solution on the Chromosome Integrity and Developmental Ability of Mouse Spermatozoa1. Biology of Reproduction, 2003, 68, 136-139.	2.7	96
49	Comparison of Oocyte-Activating Agents for Mouse Cloning. Cloning, 1999, 1, 153-159.	2.1	92
50	Spermatozoa and spermatids retrieved from frozen reproductive organs or frozen whole bodies of male mice can produce normal offspring. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13098-13103.	7.1	89
51	Incorporation of the acrosome into the oocyte during intracytoplasmic sperm injection could be potentially hazardous to embryo development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14209-14214.	7.1	88
52	Fourteen babies born after round spermatid injection into human oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14629-14634.	7.1	87
53	Tolerance of the Mouse Sperm Nuclei to Freeze-Drying Depends on Their Disulfide Status1. Biology of Reproduction, 2003, 69, 1859-1862.	2.7	82
54	The use of piezo micromanipulation for intracytoplasmic sperm injection of human oocytes. Journal of Assisted Reproduction and Genetics, 1996, 13, 320-328.	2.5	81

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55	Ovarian Histopathology of Bitches Immunized With Porcine Zonae Pellucidae. American Journal of Reproductive Immunology and Microbiology: AJRIM, 1988, 18, 94-103.	1.4	80
56	Chromosome Analysis of BALB/c Mouse Spermatozoa with Normal and Abnormal Head Morphology1. Biology of Reproduction, 1999, 61, 809-812.	2.7	80
57	The Sall3 locus is an epigenetic hotspot of aberrant DNA methylation associated with placentomegaly of cloned mice. Genes To Cells, 2004, 9, 253-260.	1.2	80
58	Fertile life of acrosome-reacted guinea pig spermatozoa. The Journal of Experimental Zoology, 1982, 220, 109-115.	1.4	79
59	Full-Term Development of Golden Hamster Oocytes Following Intracytoplasmic Sperm Head Injection. Biology of Reproduction, 2002, 67, 534-539.	2.7	79
60	Acrosome reaction in human spermatozoa. Fertility and Sterility, 1986, 45, 701-707.	1.0	78
61	Birth of Mice after Intracytoplasmic Injection of Single Purified Sperm Nuclei and Detection of Messenger RNAs and MicroRNAs in the Sperm Nuclei1. Biology of Reproduction, 2008, 78, 896-902.	2.7	78
62	Glucose Parameters Are Altered in Mouse Offspring Produced by Assisted Reproductive Technologies and Somatic Cell Nuclear Transfer1. Biology of Reproduction, 2010, 83, 220-227.	2.7	77
63	Propagation of an infertile hermaphrodite mouse lacking germ cells by using nuclear transfer and embryonic stem cell technology. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 29-33.	7.1	75
64	Factors Affecting Meiotic and Developmental Competence of Primary Spermatocyte Nuclei Injected into Mouse Oocytes1. Biology of Reproduction, 1998, 59, 871-877.	2.7	74
65	Mammalian Sperm Acrosome Reaction: Where Does It Begin Before Fertilization?. Biology of Reproduction, 2011, 85, 4-5.	2.7	74
66	Chapter 1 Spermâ€“Egg Fusion. Current Topics in Membranes and Transport, 1988, 32, 3-43.	0.6	73
67	The Behavior and Acrosomal Status of Mouse Spermatozoa In Vitro, and Within the Oviduct During Fertilization after Natural Mating. Biology of Reproduction, 2016, 95, 50-50.	2.7	72
68	Cloning the laboratory mouse. Seminars in Cell and Developmental Biology, 1999, 10, 253-258.	5.0	71
69	Intracytoplasmic Sperm Injection Is More Efficient than In Vitro Fertilization for Generating Mouse Embryos from Cryopreserved Spermatozoa1. Biology of Reproduction, 2002, 67, 1278-1284.	2.7	71
70	Epigenetics by DNA methylation for development of normal and cloned animals. Differentiation, 2002, 69, 162-166.	1.9	70
71	Fate of microinjected spermatid mitochondria in the mouse oocyte and embryo. Zygote, 1998, 6, 213-222.	1.1	69
72	The kinetics of human sperm binding to the human zona pellucida and zona-free hamster oocyte in vitro. Gamete Research, 1985, 12, 29-39.	1.7	68

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73	Mouse Preimplantation Embryos Developed from Oocytes Injected with Round Spermatids or Spermatozoa Have Similar but Distinct Patterns of Early Messenger RNA Expression. Biology of Reproduction, 2003, 69, 1170-1176.	2.7	67
74	Chemical and physical guidance of fish spermatozoa into the egg through the micropyleâ€‚â€¡. Biology of Reproduction, 2017, 96, 780-799.	2.7	67
75	Gradual DNA demethylation of theOct4 promoter in cloned mouse embryos. Molecular Reproduction and Development, 2006, 73, 180-188.	2.0	65
76	Gonadotropin stimulation contributes to an increased incidence of epimutations in ICSI-derived mice. Human Molecular Genetics, 2012, 21, 4460-4472.	2.9	65
77	Sperm Autoantigens and Fertilization: II. Effects of Anti-Guinea Pig Sperm Autoantibodies on Sperm-Ovum Interactions. Biology of Reproduction, 1981, 24, 512-518.	2.7	64
78	Acrosin is essential for sperm penetration through the zona pellucida in hamsters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2513-2518.	7.1	64
79	Infertility in bitches induced by active immunization with porcine zonae pellucidae. The Journal of Experimental Zoology, 1982, 222, 89-95.	1.4	63
80	Mouse Round Spermatids Developed In Vitro from Preexisting Spermatocytes Can Produce Normal Offspring by Nuclear Injection into In Vivo-Developed Mature Oocytes1. Biology of Reproduction, 2003, 69, 169-176.	2.7	62
81	Acceleration of acrosome reaction in hamster spermatozoa by lysolecithin. The Journal of Experimental Zoology, 1982, 224, 259-263.	1.4	60
82	A further study of lysolecithin?mediated acrosome rection of guinea pig spermatozoa. Gamete Research, 1985, 11, 29-40.	1.7	59
83	Changes in the distribution of intramembranous particles and filipin-reactive membrane sterols during in vitro capacitation of golden hamster spermatozoa. Gamete Research, 1989, 23, 335-347.	1.7	58
84	Alkylated Imino Sugars, Reversible Male Infertility-Inducing Agents, Do Not Affect the Genetic Integrity of Male Mouse Germ Cells During Short-Term Treatment Despite Induction of Sperm Deformities1. Biology of Reproduction, 2005, 72, 805-813.	2.7	55
85	Different molecular mechanisms underlie placental overgrowth phenotypes caused by interspecies hybridization, cloning, andEsx1mutation. Developmental Dynamics, 2004, 230, 149-164.	1.8	54
86	Phospholipase A of Guinea Pig Spermatozoa: Its Preliminary Characterization and Possible Involvement in the Acrosome Reaction. (guinea pig/spermatozoa/acrosome reaction/phospholipase A). Development Growth and Differentiation, 1982, 24, 305-310.	1.5	51
87	Adult mice cloned from migrating primordial germ cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11361-11366.	7.1	51
88	Comparison of intracytoplasmic sperm injection for inbred and hybrid mice. Molecular Reproduction and Development, 2001, 60, 74-78.	2.0	49
89	Production of fertile offspring from genetically infertile male mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1691-1695.	7.1	49
90	Hyperactive self-inactivating piggyBac for transposase-enhanced pronuclear microinjection transgenesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19184-19189.	7.1	49

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91	Active integration: new strategies for transgenesis. Transgenic Research, 2007, 16, 333-339.	2.4	48
92	Active peristaltic movements and fluid production of the mouse oviduct: their roles in fluid and sperm transport and fertilizationâ€. Biology of Reproduction, 2019, 101, 40-49.	2.7	45
93	Separation of Motile Populations of Spermatozoa Prior to Freezing Is Beneficial for Subsequent Fertilization In Vitro: A Study with Various Mouse Strains1. Biology of Reproduction, 2002, 67, 287-292.	2.7	42
94	Evidence suggesting the importance of fatty acids and the fatty acid moieties of sperm membrane phospholipids in the acrosome reaction of guinea pig spermatozoa. The Journal of Experimental Zoology, 1984, 229, 485-489.	1.4	41
95	Further evidence that sperm nuclear proteins are necessary for embryogenesis. Zygote, 2000, 8, 51-56.	1.1	41
96	Tn5 Transposase-Mediated Mouse Transgenesis1. Biology of Reproduction, 2005, 73, 1157-1163.	2.7	39
97	Development of pronuclei from human spermatozoa injected microsurgically into frog (Xenopus) eggs. The Journal of Experimental Zoology, 1986, 237, 319-325.	1.4	38
98	Competitive Effect of Magnesium on the Calcium-Dependent Acrosome Reaction in Guinea Pig Spermatozoa. Biology of Reproduction, 1976, 15, 614-619.	2.7	37
99	Cell surface changes in the proteins of rabbit spermatozoa during epididymal passage. Gamete Research, 1979, 2, 153-162.	1.7	36
100	Offspring from Normal Mouse Oocytes Injected with Sperm Heads from the azh/azh Mouse Display More Severe Sperm Tail Abnormalities than the Original Mutant1. Biology of Reproduction, 2001, 64, 249-256.	2.7	36
101	Glucose effect on respiration: Possible mechanism for capacitation in guinea pig spermatozoa. The Journal of Experimental Zoology, 1979, 207, 107-112.	1.4	35
102	Human sperm nuclei can transform into condensed chromosomes inXenopus egg extracts. Gamete Research, 1988, 20, 1-9.	1.7	35
103	Use of intracytoplasmic sperm injection (ICSI) to generate transgenic animals. Comparative Immunology, Microbiology and Infectious Diseases, 2009, 32, 47-60.	1.6	35
104	Skewed X-inactivation in cloned mice. Biochemical and Biophysical Research Communications, 2004, 321, 38-44.	2.1	34
105	Germ Cell Research: A Personal Perspective. Biology of Reproduction, 2009, 80, 204-218.	2.7	34
106	Fertilization by Guinea Pig Spermatozoa Requires Potassium Ions. Biology of Reproduction, 1981, 25, 639-648.	2.7	33
107	Inability of mature oocytes to create functional haploid genomes from somatic cell nuclei. Fertility and Sterility, 2003, 79, 216-218.	1.0	33
108	Phenotype of Cloned Mice: Development, Behavior, and Physiology. Experimental Biology and Medicine, 2003, 228, 1193-1200.	2.4	33

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109	Male Gamete Contributions to the Embryo. Annals of the New York Academy of Sciences, 2005, 1061, 203-207.	3.8	33
110	Transgene Insertion Induced Dominant Male Sterility and Rescue of Male Fertility Using Round Spermatid Injection1. Biology of Reproduction, 2002, 66, 726-734.	2.7	32
111	Fertilizability of cryopreserved zona-free hamster ova. Gamete Research, 1979, 2, 357-366.	1.7	31
112	The pH dependence of motility and the acrosome reaction of guinea pig spermatozoa. Gamete Research, 1984, 10, 1-8.	1.7	29
113	Inadequate function of steriletw5/tw32 spermatozoa overcome by intracytoplasmic sperm injection. Molecular Reproduction and Development, 1996, 44, 230-233.	2.0	29
114	Contribution of cumulus cells and serum to the maturation of oocyte cytoplasm as revealed by intracytoplasmic sperm injection (ICSI). Zygote, 2001, 9, 277-282.	1.1	29
115	Recombinase-mediated mouse transgenesis by intracytoplasmic sperm injection. Theriogenology, 2005, 64, 1704-1715.	2.1	28
116	Production of inbred and hybrid transgenic mice carrying large (> 200 kb) foreign DNA fragments by intracytoplasmic sperm injection. Molecular Reproduction and Development, 2005, 72, 329-335.	2.0	27
117	Mysteries and unsolved problems of mammalian fertilization and related topics. Biology of Reproduction, 2022, 106, 644-675.	2.7	25
118	Cloning and assisted reproductive techniques: Influence on early development and adult phenotype. Birth Defects Research Part C: Embryo Today Reviews, 2005, 75, 151-162.	3.6	24
119	DNA Methylation Errors in Cloned Mice Disappear with Advancement of Aging. Cloning and Stem Cells, 2007, 9, 293-302.	2.6	23
120	Establishment of trophoblast stem cell lines from somatic cell nuclear-transferred embryos. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16293-16297.	7.1	23
121	Sperm nuclear envelope: breakdown of intrinsic envelope andde novoformation in hamster oocytes or eggs. Zygote, 1997, 5, 35-46.	1.1	21
122	Bypassing spermiogenesis for several generations does not have detrimental consequences on the fertility and neurobehavior of offspring: a study using the mouse. Journal of Assisted Reproduction and Genetics, 1999, 16, 315-324.	2.5	21
123	REVERSIBLE INHIBITION OF SPERM-EGG FUSION IN THE HAMSTER BY LOW PH*. Development Growth and Differentiation, 1980, 22, 281-288.	1.5	20
124	Fertilization Studies and Assisted Fertilization in Mammals: Their Development and Future. Journal of Reproduction and Development, 2012, 58, 25-32.	1.4	20
125	Regulation and Effects of Modulation of Telomerase Reverse Transcriptase Expression in Primordial Germ Cells During Development1. Biology of Reproduction, 2006, 75, 785-791.	2.7	19
126	Alteration of sperm thiol-disulfide status and capacitation in the guinea pig. Gamete Research, 1986, 13, 93-102.	1.7	17

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127	Fertilization and development initiation in orthodox and unorthodox ways: From normal fertilization to cloning. Advances in Biophysics, 2003, 37, 49-89.	0.5	17
128	Both Cauda and Caput Epididymal Sperm Are Capable of Supporting Full-Term Development in FVB and CD-1 Mice. Developmental Cell, 2020, 55, 675-676.	7.0	16
129	Reproductive Development in the Female Golden Hamster in Relation to Spontaneous Estrus. Biology of Reproduction, 1970, 2, 223-229.	2.7	15
130	Spontaneous and sperm-induced activation of oocytes in LT/Sv strain mice. Development Growth and Differentiation, 1995, 37, 679-685.	1.5	13
131	Requirement of monovalent cations in the acrosome reaction of guinea pig spermatozoa. Gamete Research, 1986, 15, 285-294.	1.7	11
132	Developmental, Behavioral, and Physiological Phenotype of Cloned Mice. , 2007, 591, 72-83.		11
133	Problems of sperm fertility: A reproductive biologist's view. Systems Biology in Reproductive Medicine, 2011, 57, 102-114.	2.1	11
134	Prevention of in vitro fertilization of canine oocytes by anti-ovary antisera: A potential approach to fertility control in the bitch. The Journal of Experimental Zoology, 1979, 210, 129-135.	1.4	10
135	Sperm autoantigens and fertilization. III. Ultrastructural localization of guinea pig autoantigens. The Anatomical Record, 1982, 202, 241-253.	1.8	10
136	[20] Detection of sperm-egg fusion. Methods in Enzymology, 1993, 221, 249-260.	1.0	6
137	Moderate heat treatment increases the penetrability of zonae pellucidae of salt-stored mammalian oocytes by spermatozoa. Zygote, 1993, 1, 345-351.	1.1	2
138	Avian chromosomes can be examined by injection of erythrocyte nuclei into mouse oocytes. Hereditas, 2003, 138, 158-159.	1.4	2
139	Efficiency and Safety of Animal Cloning. Advances in Experimental Medicine and Biology, 2003, 518, 247-252.	1.6	1
140	ORTHODOX AND UNORTHODOX WAYS TO INITIATE FERTILIZATION AND DEVELOPMENT IN MAMMALS. , 2007, , 255-262.		1
141	Vincent J. De Feo (1 October 1925 to 10 December 2007). Clinical Anatomy, 2009, 22, 273-274.	2.7	0
142	Health Consequences of Cloning Mice. , 2005, , .		0