

Hiroaki Funahashi

List of Publications by Year in descending order

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97
papers

3,611
citations

134610

34
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156644

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97
all docs

97
docs citations

97
times ranked

1986
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative transcript abundance in porcine cumulus cells collected from different sized follicles. <i>Reproduction in Domestic Animals</i> , 2021, 56, 374-380.	0.6	2
2	The Thickness and Density of the Ovarian Tunica Albuginea Increases with Age in Transgender Patients. <i>Reproductive Sciences</i> , 2021, 28, 1339-1346.	1.1	2
3	Animal Biotechnology Roles in Livestock Production. IOP Conference Series: Earth and Environmental Science, 2020, 465, 012001.	0.2	1
4	The autophagic inducer and inhibitor display different activities on the meiotic and developmental competencies of porcine oocytes derived from small and medium follicles. <i>Journal of Reproduction and Development</i> , 2019, 65, 527-532.	0.5	6
5	Removal of cumulus cells around 20 h after the start of <i>in vitro</i> maturation improves the meiotic competence of porcine oocytes via reduction in cAMP and cGMP levels. <i>Journal of Reproduction and Development</i> , 2019, 65, 177-182.	0.5	3
6	Presence of vascular endothelial growth factor during the first half of IVM improves the meiotic and developmental competence of porcine oocytes from small follicles. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1902.	0.1	11
7	Supplementation with cumulus cell masses improves the <i>in vitro</i> meiotic competence of porcine cumulus oocytes complexes derived from small follicles. <i>Reproduction in Domestic Animals</i> , 2017, 52, 672-679.	0.6	6
8	Levels of cyclic-AMP and cyclic-GMP in porcine oocyte-cumulus complexes and cumulus-free oocytes derived from small and middle follicles during the first 24-hour period of <i>in vitro</i> maturation. <i>Journal of Reproduction and Development</i> , 2017, 63, 191-197.	0.5	8
9	A phosphodiesterase type-5 inhibitor, sildenafil, induces sperm capacitation and penetration into porcine oocytes in a chemically defined medium. <i>Theriogenology</i> , 2016, 85, 428-433.	0.9	20
10	Effect of removing cumulus cells from porcine cumulus-oocyte complexes derived from small and medium follicles during IVM on the apoptotic status and meiotic progression of the oocytes. <i>Theriogenology</i> , 2016, 86, 1705-1710.	0.9	8
11	Application of a microfluidic sperm sorter to <i>in vitro</i> production of dairy cattle sex-sorted embryos. <i>Theriogenology</i> , 2016, 85, 1211-1218.	0.9	16
12	Milk supplements in a glycerol free trehalose freezing extender enhanced cryosurvival of boar spermatozoa. <i>Asian Pacific Journal of Reproduction</i> , 2016, 5, 58-62.	0.2	6
13	<i>In vitro</i> fertilization in pigs: New molecules and protocols to consider in the forthcoming years. <i>Theriogenology</i> , 2016, 85, 125-134.	0.9	52
14	Methods for Improving <i>In Vitro</i> and <i>In Vivo</i> Boar Sperm Fertility. <i>Reproduction in Domestic Animals</i> , 2015, 50, 40-47.	0.6	10
15	Trehalose in glycerol-free freezing extender enhances post-thaw survival of boar spermatozoa. <i>Journal of Reproduction and Development</i> , 2015, 61, 205-210.	0.5	21
16	Rapid thawing and stabilizing procedure improve postthaw survival and <i>in vitro</i> penetrability of boar spermatozoa cryopreserved with a glycerol-free trehalose-based extender. <i>Theriogenology</i> , 2015, 84, 940-947.	0.9	12
17	Development competence and relative transcript abundance of oocytes derived from small and medium follicles of prepubertal gilts. <i>Theriogenology</i> , 2013, 80, 970-978.	0.9	26
18	Effects of caffeine on sperm characteristics after thawing and inflammatory response in the uterus after artificial insemination with frozen-thawed boar semen. <i>Theriogenology</i> , 2013, 79, 87-93.	0.9	26

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19	A microfluidic device to reduce treatment time of intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , 2013, 99, 400-407.	0.5	35
20	What is the optimal condition for fertilization of IVM oocytes?. <i>Reproductive Medicine and Biology</i> , 2013, 12, 15-20.	1.0	1
21	Simple vitrification for small numbers of human spermatozoa. <i>Reproductive BioMedicine Online</i> , 2012, 24, 301-307.	1.1	59
22	Successful delivery derived from vitrified-warmed spermatozoa from a patient with nonobstructive azoospermia. <i>Fertility and Sterility</i> , 2012, 98, 1423-1427.	0.5	35
23	Boar seminal plasma or hen's egg yolk decrease the in-vitro chemotactic and phagocytotic activities of neutrophils when co-incubated with boar or bull sperm. <i>Theriogenology</i> , 2012, 77, 73-80.	0.9	19
24	Effect of the addition of beta-mercaptoethanol to a thawing solution supplemented with caffeine on the function of frozen-thawed boar sperm and on the fertility of sows after artificial insemination. <i>Theriogenology</i> , 2012, 77, 926-932.	0.9	24
25	Glycosaminoglycans Improves Early Development of Zona-free 8-cell Rat Embryos to Blastocysts in a Chemically Defined Medium, but Not the Pregnancy Rate Following Transfer of the Blastocysts. <i>Journal of Reproduction and Development</i> , 2012, 58, 295-301.	0.5	4
26	194 IN VITRO MATURATION AND RNA CONTENT AND DISTRIBUTION OF PORCINE OOCYTES DERIVED FROM SMALL AND MEDIUM FOLLICLES AND CLASSIFIED BY BRILLIANT CRESYL BLUE ASSAY. <i>Reproduction, Fertility and Development</i> , 2012, 24, 209.	0.1	1
27	Single Spermatozoon Freezing Using Cryotop. <i>Journal of Mammalian Ova Research</i> , 2011, 28, 47-52.	0.1	25
28	Caffeine, dibutyl cyclic-AMP and heparin affect the chemotactic and phagocytotic activities of neutrophils for boar sperm in vitro. <i>Theriogenology</i> , 2011, 75, 1336-1345.	0.9	12
29	Hydrophobic Silicone Elastomer Chamber for Recording Trajectories of Motile Porcine Sperms without Adsorption. <i>Journal of Reproduction and Development</i> , 2011, 57, 163-167.	0.5	8
30	In-vitro Culture with a Tilting Device in Chemically Defined Media During Meiotic Maturation and Early Development Improves the Quality of Blastocysts Derived from In-vitro Matured and Fertilized Porcine Oocytes. <i>Journal of Reproduction and Development</i> , 2010, 56, 552-557.	0.5	22
31	Effect of blood serum, caffeine and heparin on in vitro phagocytosis of frozen-thawed bull sperm by neutrophils derived from the peripheral blood of cows. <i>Theriogenology</i> , 2010, 74, 691-698.	0.9	16
32	Application of a microfluidic sperm sorter to the in-vitro fertilization of porcine oocytes reduced the incidence of polyspermic penetration. <i>Theriogenology</i> , 2010, 74, 863-870.	0.9	39
33	Application of mechanical stimuli using a microfluidic air actuating system to cultured mammalian embryos. , 2010, , .		4
34	Exogenous Adenosine Reduces the Mitochondrial Membrane Potential of Murine Oocytes During the Latter Half of In Vitro Maturation and Pronuclear Formation Following Chemical Activation. <i>Journal of Reproduction and Development</i> , 2009, 55, 187-193.	0.5	11
35	Successful Piglet Production in a Chemically Defined System for In-vitro Production of Porcine Embryos: Dibutyl Cyclic AMP and Epidermal Growth Factor-family Peptides Support In-vitro Maturation of Oocytes in the Absence of Gonadotropins. <i>Journal of Reproduction and Development</i> , 2009, 55, 446-453.	0.5	49
36	Improved Fertility in Gilts and Sows after Artificial Insemination of Frozen-Thawed Boar Semen by Supplementation of Semen Extender with Caffeine and CaCl ₂ . <i>Journal of Reproduction and Development</i> , 2009, 55, 645-649.	0.5	39

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37	Metal mesh vitrification (MMV) method for cryopreservation of porcine embryos. <i>Theriogenology</i> , 2008, 70, 809-817.	0.9	32
38	Effect of glucose and pyruvate on nuclear and cytoplasmic maturation of porcine oocytes in a chemically defined medium. <i>Theriogenology</i> , 2008, 70, 1041-1047.	0.9	36
39	In vitro development of non-enucleated rat oocytes following microinjection of a cumulus nucleus and chemical activation. <i>Zygote</i> , 2008, 16, 117-125.	0.5	6
40	In vitro maturation and fertilization of porcine oocytes after a 48h culture in roscovitine, an inhibitor of p34cdc2/cyclin B kinase. <i>Animal Reproduction Science</i> , 2006, 92, 321-333.	0.5	20
41	Up date of in vitro production of porcine embryos. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 2565.	3.0	86
42	Effect of beta-mercaptoethanol during in vitro fertilization procedures on sperm penetration into porcine oocytes and the early development in vitro. <i>Reproduction</i> , 2005, 130, 889-898.	1.1	29
43	Select antioxidants improve the function of extended boar semen stored at 10Â°C. <i>Theriogenology</i> , 2005, 63, 1605-1616.	0.9	145
44	Reduction of the incidence of polyspermic penetration into porcine oocytes by pretreatment of fresh spermatozoa with adenosine and a transient co-incubation of the gametes with caffeine. <i>Reproduction</i> , 2004, 128, 789-800.	1.1	37
45	Polyspermic penetration in porcine IVM - IVF systems. <i>Reproduction, Fertility and Development</i> , 2003, 15, 167.	0.1	72
46	Induction of capacitation and the acrosome reaction of boar spermatozoa by L-arginine and nitric oxide synthesis associated with the anion transport system. <i>Reproduction</i> , 2002, 124, 857-864.	1.1	35
47	Effect of Methyl-BETA-Cyclodextrin and Fertilization Promoting Peptide on Capacitation of Boar Spermatozoa in a Protein-Free Medium.. <i>Journal of Reproduction and Development</i> , 2002, 48, 57-63.	0.5	4
48	Regulation of in vitro penetration of frozen-thawed boar spermatozoa by caffeine and adenosine. <i>Molecular Reproduction and Development</i> , 2001, 58, 424-431.	1.0	72
49	Nuclear Transfer of Blastomeres Expressing EGFP-Reporter Gene May Improve the Efficiency of Transgenic Cattle. <i>Cloning and Stem Cells</i> , 2001, 3, 183-190.	2.6	7
50	Transmission electron microscopy studies of the zona reaction in pig oocytes fertilized in vivo and in vitro. <i>Reproduction</i> , 2001, 122, 443-452.	1.1	30
51	Sperm Selection by a Climbing-over-a-Wall IVF Method Reduces the Incidence of Polyspermic Penetration of Porcine Oocytes.. <i>Journal of Reproduction and Development</i> , 2000, 46, 319-324.	0.5	19
52	Both fertilization promoting peptide and adenosine stimulate capacitation but inhibit spontaneous acrosome loss in ejaculated boar spermatozoa in vitro. , 2000, 55, 117-124.		41
53	Zona Reaction in Porcine Oocytes Fertilized In Vivo and In Vitro as Seen with Scanning Electron Microscopy1. <i>Biology of Reproduction</i> , 2000, 63, 1437-1442.	1.2	67
54	Modulation of the Function of Boar Spermatozoa via Adenosine and Fertilization Promoting Peptide Receptors Reduce the Incidence of Polyspermic Penetration into Porcine Oocytes1. <i>Biology of Reproduction</i> , 2000, 63, 1157-1163.	1.2	56

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55	Both fertilization promoting peptide and adenosine stimulate capacitation but inhibit spontaneous acrosome loss in ejaculated boar spermatozoa in vitro. , 2000, 55, 117.		1
56	Co-culture of Cumulus-Enclosed Bovine Oocytes with Theca Cells Induces the Meiotic Arrest but does not Inhibit Germinal Vesicle Development.. Journal of Reproduction and Development, 1999, 45, 223-231.	0.5	2
57	Production of Plasminogen Activators (PAs) in Bovine Cumulus-Oocyte Complexes during Maturation In Vitro: Effects of Epidermal Growth Factor on Production of PAs in Oocytes and Cumulus Cells1. Biology of Reproduction, 1999, 61, 298-304.	1.2	23
58	DNA stability and thiol-disulphide status of rat sperm nuclei during epididymal maturation and penetration of oocytes. Zygote, 1999, 7, 249-254.	0.5	18
59	Changes in intracellular content of glutathione and thiols associated with $\hat{1}^3$ -glutamyl cycle during sperm penetration and pronuclear formation in rat oocytes. Zygote, 1999, 7, 301-305.	0.5	5
60	The Presence of Tissue Inhibitor of Matrix Metalloproteinase-1 (TIMP-1) During Meiosis Improves Porcine 'Oocyte Competence' as Determined by Early Embryonic Development After In-vitro Fertilization.. Journal of Reproduction and Development, 1999, 45, 265-271.	0.5	9
61	Recent Development in Embryo Technology in Pigs - Review -. Asian-Australasian Journal of Animal Sciences, 1999, 12, 966-975.	2.4	1
62	Rat Oocytes Fertilized in Modified Rat 1-Cell Embryo Culture Medium Containing a High Sodium Chloride Concentration and Bovine Serum Albumin Maintain Developmental Ability to the Blastocyst Stage. Biology of Reproduction, 1998, 59, 884-889.	1.2	93
63	In vitro Production of Porcine Embryos: On the Developmental Competence. Journal of Reproduction and Development, 1998, 44, j47-j52.	0.5	0
64	Effects of Cumulus Cells on the Ability of Pig Oocytes to Utilize Cysteine or Cystine During Maturation In Vitro.. Journal of Reproduction and Development, 1998, 44, 161-168.	0.5	1
65	Stage-Specific Requirement of Cysteine during in Vitro Maturation of Porcine Oocytes for Glutathione Synthesis Associated with Male Pronuclear Formation1. Biology of Reproduction, 1997, 57, 1-6.	1.2	63
66	Synchronization of Meiosis in Porcine Oocytes by Exposure to Dibutyryl Cyclic Adenosine Monophosphate Improves Developmental Competence Following in Vitro Fertilization1. Biology of Reproduction, 1997, 57, 49-53.	1.2	340
67	Chlortetracycline fluorescence patterns and in vitro fertilisation of frozen-thawed boar spermatozoa incubated under various bicarbonate concentrations. Zygote, 1997, 5, 117-125.	0.5	17
68	Developmental Changes in the Intracellular Ca 2+ Release Mechanisms in Porcine Oocytes1. Biology of Reproduction, 1997, 56, 921-930.	1.2	88
69	Preincubation of cumulus-oocyte complexes before exposure to gonadotropins improves the developmental competence of porcine embryos matured and fertilized in vitro. Theriogenology, 1997, 47, 679-686.	0.9	40
70	Effects of Cysteine in Serum-Free Maturation Medium on Male Pronuclear Formation of Maturing Pig Oocytes Penetrated In Vitro.. Journal of Reproduction and Development, 1997, 43, 73-80.	0.5	5
71	Advances in in vitro production of pig embryos. Journal of Reproduction and Fertility Supplement, 1997, 52, 271-83.	0.1	50
72	Microtubule and microfilament dynamics in porcine oocytes during meiotic maturation. Molecular Reproduction and Development, 1996, 43, 248-255.	1.0	112

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73	γ -glutamyl transpeptidase of spermatozoa may decrease oocyte glutathione content at fertilization in pigs. <i>Molecular Reproduction and Development</i> , 1996, 45, 485-490.	1.0	6
74	Effects of Injecting Calcium Chloride into in Vitro-Matured Porcine Oocytes1. <i>Biology of Reproduction</i> , 1996, 54, 316-322.	1.2	49
75	Microtubule Organization in Porcine Oocytes during Fertilization and Parthenogenesis1. <i>Biology of Reproduction</i> , 1996, 54, 1397-1404.	1.2	107
76	Effects of oviductal fluid on sperm penetration and cortical granule exocytosis during fertilization of pig oocytes in vitro. <i>Reproduction</i> , 1996, 107, 79-86.	1.1	84
77	Presence of Organic Osmolytes in Maturation Medium Enhances Cytoplasmic Maturation of Porcine Oocytes1. <i>Biology of Reproduction</i> , 1996, 54, 1412-1419.	1.2	85
78	Low Salt Maturation Medium Enhances the Histone H1 Kinase Activity of Porcine Oocytes at the End of In Vitro Maturation.. <i>Journal of Reproduction and Development</i> , 1996, 42, 109-115.	0.5	6
79	Factors Affecting Development In Vitro of Bovine and Rat 1-Cell Embryos.. <i>Journal of Mammalian Ova Research</i> , 1996, 13, 71-80.	0.1	6
80	Current Status of in vitro Production of Porcine Embryos. , 1996, , 491-502.		4
81	Pronuclear formation and intracellular glutathione content of <i>in vitro</i> -matured porcine oocytes following <i>in vitro</i> fertilisation and/or electrical activation. <i>Zygote</i> , 1995, 3, 273-281.	0.5	41
82	Pronuclear visibility, development and transgene expression in IVM/IVF-derived porcine embryos. <i>Theriogenology</i> , 1995, 44, 391-401.	0.9	11
83	Comparative expression patterns of two transgenes in murine, porcine and bovine embryos. <i>Theriogenology</i> , 1995, 43, 262.	0.9	1
84	Development of rat one-cell embryos in a chemically defined medium: effects of glucose, phosphate and osmolarity. <i>Reproduction</i> , 1994, 100, 21-26.	1.1	95
85	In Vitro Development of in Vitro-Matured Porcine Oocytes Following Chemical Activation or in Vitro Fertilization1. <i>Biology of Reproduction</i> , 1994, 50, 1072-1077.	1.2	116
86	Use of Low-Salt Culture Medium for in Vitro Maturation of Porcine Oocytes is Associated with Elevated Oocyte Glutathione Levels and Enhanced Male Pronuclear Formation after in Vitro Fertilization1. <i>Biology of Reproduction</i> , 1994, 51, 633-639.	1.2	130
87	Developmental ability of porcine oocytes matured and fertilized in vitro. <i>Theriogenology</i> , 1994, 41, 1425-1433.	0.9	26
88	Different hormonal requirements of pig oocyte-cumulus complexes during maturation in vitro. <i>Reproduction</i> , 1994, 101, 159-165.	1.1	85
89	Effects of electrical stimulation before or after in vitro fertilization on sperm penetration and pronuclear formation of pig oocytes. <i>Molecular Reproduction and Development</i> , 1993, 36, 361-367.	1.0	17
90	Glucose requirement at different developmental stages of in vitro fertilized bovine embryos cultured in semi-defined medium. <i>Theriogenology</i> , 1993, 39, 875-886.	0.9	69

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91	Effects of different serum supplements in maturation medium on meiotic and cytoplasmic maturation of pig oocytes. <i>Theriogenology</i> , 1993, 39, 965-973.	0.9	64
92	Effects of follicular fluid at fertilization in vitro on sperm penetration in pig oocytes. <i>Reproduction</i> , 1993, 99, 97-103.	1.1	90
93	Effects of the duration of exposure to hormone supplements on cytoplasmic maturation of pig oocytes in vitro. <i>Reproduction</i> , 1993, 98, 179-185.	1.1	131
94	Fertilization and early cleavage in vitro of ageing bovine oocytes after maturation in culture. <i>Theriogenology</i> , 1992, 37, 665-672.	0.9	53
95	First cleavage of enucleated rat eggs following transplantation of karyoplast removed from pronuclear eggs stored at 2 to 6Å°C for various durations. <i>Theriogenology</i> , 1991, 36, 411-417.	0.9	1
96	Developmental capacity of bovine oocytes collected from ovaries of individual heifers and fertilized in vitro. <i>Theriogenology</i> , 1991, 36, 427-434.	0.9	29
97	Development of rat eggs with pronuclei transplanted by electrofusion.. <i>The Japanese Journal of Animal Reproduction</i> , 1988, 34, 133-137.	0.2	4