

# Fuminori Tanihara

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

1,130  
citations

430442

18  
h-index

476904

29  
g-index

82  
all docs

82  
docs citations

82  
times ranked

981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Somatic cell reprogramming-free generation of genetically modified pigs. <i>Science Advances</i> , 2016, 2, e1600803.	4.7	96
2	Generation of Live Piglets from Cryopreserved Oocytes for the First Time Using a Defined System for In Vitro Embryo Production. <i>PLoS ONE</i> , 2014, 9, e97731.	1.1	71
3	Generation of Live Piglets for the First Time Using Sperm Retrieved from Immature Testicular Tissue Cryopreserved and Grafted into Nude Mice. <i>PLoS ONE</i> , 2013, 8, e70989.	1.1	65
4	Effect of trehalose on DNA integrity of freeze-dried boar sperm, fertilization, and embryo development after intracytoplasmic sperm injection. <i>Theriogenology</i> , 2013, 80, 1033-1044.	0.9	52
5	Generation of a TP53-modified porcine cancer model by CRISPR/Cas9-mediated gene modification in porcine zygotes via electroporation. <i>PLoS ONE</i> , 2018, 13, e0206360.	1.1	46
6	Chlorogenic acid supplementation during in vitro maturation improves maturation, fertilization and developmental competence of porcine oocytes. <i>Reproduction in Domestic Animals</i> , 2017, 52, 969-975.	0.6	45
7	Comparison of cytoskeletal integrity, fertilization and developmental competence of oocytes vitrified before or after in vitro maturation in a porcine model. <i>Cryobiology</i> , 2013, 67, 287-292.	0.3	41
8	Effects of concentration of CRISPR/Cas9 components on genetic mosaicism in cytoplasmic microinjected porcine embryos. <i>Journal of Reproduction and Development</i> , 2019, 65, 209-214.	0.5	35
9	Melatonin Supplementation During <i>In Vitro</i> Maturation and Development Supports the Development of Porcine Embryos. <i>Reproduction in Domestic Animals</i> , 2015, 50, 1054-1058.	0.6	32
10	Comparison of Ethylene Glycol and Propylene Glycol for the Vitrification of Immature Porcine Oocytes. <i>Journal of Reproduction and Development</i> , 2013, 59, 378-384.	0.5	29
11	Efficient generation of GGTA1-deficient pigs by electroporation of the CRISPR/Cas9 system into in vitro-fertilized zygotes. <i>BMC Biotechnology</i> , 2020, 20, 40.	1.7	29
12	Generation of <i>CD163</i> -edited pig via electroporation of the CRISPR/Cas9 system into porcine in vitro-fertilized zygotes. <i>Animal Biotechnology</i> , 2021, 32, 147-154.	0.7	29
13	Generation of viable <i>PDX1</i> gene-edited founder pigs as providers of nonmosaics. <i>Molecular Reproduction and Development</i> , 2020, 87, 471-481.	1.0	28
14	Effects of voltage strength during electroporation on the development and quality of in vitro-produced porcine embryos. <i>Reproduction in Domestic Animals</i> , 2018, 53, 313-318.	0.6	26
15	Genome mutation after introduction of the gene editing by electroporation of Cas9 protein (GEEP) system in matured oocytes and putative zygotes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 237-242.	0.7	24
16	Generation of <i>PDX1</i> mutant porcine blastocysts by introducing CRISPR/Cas9 system into porcine zygotes via electroporation. <i>Animal Science Journal</i> , 2019, 90, 55-61.	0.6	23
17	Genome mutation after the introduction of the gene editing by electroporation of Cas9 protein (GEEP) system into bovine putative zygotes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 598-603.	0.7	22
18	Comparison of the effects of introducing the CRISPR/Cas9 system by microinjection and electroporation into porcine embryos at different stages. <i>BMC Research Notes</i> , 2021, 14, 7.	0.6	22

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19	Effects of electroporation treatment using different concentrations of Cas9 protein with gRNA targeting <i>Myostatin</i> ( <i>MSTN</i> ) genes on the development and gene editing of porcine zygotes. <i>Animal Science Journal</i> , 2020, 91, e13386.	0.6	20
20	Normal reproductive development of pigs produced using sperm retrieved from immature testicular tissue cryopreserved and grafted into nude mice. <i>Theriogenology</i> , 2014, 82, 325-331.	0.9	18
21	One-Step Generation of Multiple Gene-Edited Pigs by Electroporation of the CRISPR/Cas9 System into Zygotes to Reduce Xenoantigen Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2249.	1.8	18
22	Effects of Epigallocatechin Gallate on the Motility and Penetrability of Frozen-Thawed Boar Spermatozoa Incubated in the Fertilization Medium. <i>Reproduction in Domestic Animals</i> , 2012, 47, 880-886.	0.6	17
23	Current status of the application of gene editing in pigs. <i>Journal of Reproduction and Development</i> , 2021, 67, 177-187.	0.5	17
24	Evaluation of Zona Pellucida Function for Sperm Penetration During <i>In Vitro</i> Fertilization in Pigs. <i>Journal of Reproduction and Development</i> , 2013, 59, 385-392.	0.5	16
25	Effects of chlorogenic acid and caffeic acid on the quality of frozen-thawed boar sperm. <i>Reproduction in Domestic Animals</i> , 2018, 53, 1600-1604.	0.6	15
26	Motility and fertility of boar semen after liquid preservation at 5°C for more than 2 weeks. <i>Animal Science Journal</i> , 2013, 84, 600-606.	0.6	13
27	Assessment of canine ovaries autografted to various body sites. <i>Theriogenology</i> , 2012, 77, 131-138.	0.9	12
28	The effect of relaxin supplementation of <i>in vitro</i> maturation medium on the development of cat oocytes obtained from ovaries stored at 4°C. <i>Reproductive Biology</i> , 2013, 13, 122-126.	0.9	12
29	Development and subsequent cryotolerance of domestic cat embryos cultured in serum-free and serum-containing media. <i>Cryobiology</i> , 2011, 63, 170-174.	0.3	11
30	Effect of ferulic acid supplementation on the developmental competence of porcine embryos during <i>in vitro</i> maturation. <i>Journal of Veterinary Medical Science</i> , 2018, 80, 1007-1011.	0.3	10
31	One-step genome editing of porcine zygotes through the electroporation of a CRISPR/Cas9 system with two guide RNAs. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020, 56, 614-621.	0.7	10
32	Evaluation of multiple gene targeting in porcine embryos by the CRISPR/Cas9 system using electroporation. <i>Molecular Biology Reports</i> , 2020, 47, 5073-5079.	1.0	10
33	Aberrant levels of DNA methylation and H3K9 acetylation in the testicular cells of crossbred cattle-yak showing infertility. <i>Reproduction in Domestic Animals</i> , 2022, 57, 304-313.	0.6	10
34	Normal reproductive development of offspring derived by intracytoplasmic injection of porcine sperm grown in host mice. <i>Theriogenology</i> , 2012, 78, 898-906.	0.9	9
35	Roles of the zona pellucida and functional exposure of the sperm-egg fusion factor <i>ZUMO</i> ™ during <i>in vitro</i> fertilization in pigs. <i>Animal Science Journal</i> , 2014, 85, 395-404.	0.6	9
36	Effects of chlorogenic acid (CGA) supplementation during <i>in vitro</i> maturation culture on the development and quality of porcine embryos with electroporation treatment after <i>in vitro</i> fertilization. <i>Animal Science Journal</i> , 2018, 89, 1207-1213.	0.6	9

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37	The Relationship between Embryonic Development and the Efficiency of Target Mutations in Porcine Endogenous Retroviruses (PERVs) Pol Genes in Porcine Embryos. <i>Animals</i> , 2019, 9, 593.	1.0	9
38	Effects of skim-milk supplementation on the quality and penetrating ability of boar semen after long-term preservation at 15 °C. <i>Acta Veterinaria Hungarica</i> , 2014, 62, 106-116.	0.2	8
39	Generation of mutant pigs by lipofection-mediated genome editing in embryos. <i>Scientific Reports</i> , 2021, 11, 23806.	1.6	8
40	Improved developmental ability of porcine oocytes grown in nude mice after fusion with cytoplasmic fragments prepared by centrifugation: A model for utilization of primordial oocytes. <i>Theriogenology</i> , 2013, 80, 887-892.	0.9	7
41	Fertilization Ability of Porcine Oocytes Reconstructed from Ooplasmic Fragments Produced and Characterized after Serial Centrifugations. <i>Journal of Reproduction and Development</i> , 2013, 59, 549-556.	0.5	7
42	<i>In vitro</i> development of OPU-derived bovine embryos cultured either individually or in groups with the silk protein sericin and the viability of frozen-thawed embryos after transfer. <i>Animal Science Journal</i> , 2015, 86, 661-665.	0.6	7
43	Abnormal functions of Leydig cells in crossbred cattle yak showing infertility. <i>Reproduction in Domestic Animals</i> , 2020, 55, 209-216.	0.6	7
44	Lipofection-Mediated Introduction of CRISPR/Cas9 System into Porcine Oocytes and Embryos. <i>Animals</i> , 2021, 11, 578.	1.0	7
45	Effects of epigallocatechin-3-gallate on the developmental competence of parthenogenetic embryos in the pig. <i>Italian Journal of Animal Science</i> , 2010, 9, e73.	0.8	6
46	Follicle Formation in the Canine Ovary After Autografting to a Peripheral Site. <i>Reproduction in Domestic Animals</i> , 2012, 47, e16-21.	0.6	6
47	Sensitivity of the meiotic stage to hyperthermia during <i>in vitro</i> maturation of porcine oocytes. <i>Acta Veterinaria Hungarica</i> , 2017, 65, 115-123.	0.2	6
48	Introduction of a point mutation in the KRAS gene of <i>in vitro</i> fertilized porcine zygotes via electroporation of the CRISPR/Cas9 system with single-stranded oligodeoxynucleotides. <i>Animal Science Journal</i> , 2021, 92, e13534.	0.6	6
49	Effects of Tris (hydroxymethyl) aminomethane on the quality of frozen-thawed boar spermatozoa. <i>Acta Veterinaria Hungarica</i> , 2019, 67, 106-114.	0.2	5
50	Hypothermic storage of porcine zygotes in serum supplemented with chlorogenic acid. <i>Reproduction in Domestic Animals</i> , 2019, 54, 750-755.	0.6	5
51	Effect of Roscovitine Pretreatment on the Meiotic Maturation of Bovine Oocytes and their Subsequent Development after Somatic Cell Nuclear Transfer. <i>Journal of Animal and Veterinary Advances</i> , 2010, 9, 2848-2853.	0.1	5
52	Curcumin supplementation in the maturation medium improves the maturation, fertilisation and developmental competence of porcine oocytes. <i>Acta Veterinaria Hungarica</i> , 2020, 68, 298-304.	0.2	5
53	Effects of cryoprotectant agents and equilibration methods on developmental competence of porcine oocytes. <i>Cryo-Letters</i> , 2011, 32, 410-4.	0.1	5
54	Effects of Antifreeze Protein Supplementation on the Development of Porcine Morulae Stored at Hypothermic Temperatures. <i>Cryo-Letters</i> , 2018, 39, 131-136.	0.1	5

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55	Treatment with protein kinase C activator is effective for improvement of male pronucleus formation and further embryonic development of sperm-injected oocytes in pigs. <i>Theriogenology</i> , 2016, 85, 703-708.	0.9	4
56	Effects of parity and season on pregnancy rates after the transfer of embryos to repeat-breeder Japanese Black beef cattle. <i>Archives Animal Breeding</i> , 2016, 59, 45-49.	0.5	4
57	Zona pellucida treatment before CRISPR/Cas9-mediated genome editing of porcine zygotes. <i>Veterinary Medicine and Science</i> , 2022, 8, 164-169.	0.6	4
58	Effects of the timing of electroporation during in vitro maturation on triple gene editing in porcine embryos using CRISPR/Cas9 system. <i>Veterinary and Animal Science</i> , 2022, 16, 100241.	0.6	4
59	Effects of individual or in combination antioxidant supplementation during in vitro maturation culture on the developmental competence and quality of porcine embryos. <i>Reproduction in Domestic Animals</i> , 2022, 57, 314-320.	0.6	4
60	Formation of an Antral Follicle-like Structure of Bovine Cumulus-Oocyte Complexes Embedded Individually or in Groups in Collagen Gels. <i>Reproduction in Domestic Animals</i> , 2011, 46, 423-427.	0.6	3
61	Effects of duration of electric pulse on in vitro development of cloned cat embryos with human artificial chromosome vector. <i>Reproduction in Domestic Animals</i> , 2016, 51, 1039-1043.	0.6	3
62	Follicular development of canine ovaries stimulated by a combination treatment of eCG and hCG. <i>Veterinary Medicine and Science</i> , 2018, 4, 333-340.	0.6	3
63	Timing and duration of lipofection-mediated CRISPR/Cas9 delivery into porcine zygotes affect gene-editing events. <i>BMC Research Notes</i> , 2021, 14, 389.	0.6	3
64	Viability and developmental potential of porcine blastocysts preserved for short term in a chemically defined medium at ambient temperature. <i>Reproduction in Domestic Animals</i> , 2022, 57, 556-563.	0.6	3
65	CHARACTERISTICS AND FERTILITY OF SUMATRAN TIGER SPERMATOZOA CRYOPRESERVED WITH DIFFERENT SUGARS. <i>Cryo-Letters</i> , 2016, 37, 264-271.	0.1	3
66	Short-term preservation of porcine zygotes at ambient temperature using a chemically defined medium. <i>Animal Science Journal</i> , 2022, 93, e13711.	0.6	3
67	Triple gene editing in porcine embryos using electroporation alone or in combination with microinjection. <i>Veterinary World</i> , 2022, 15, 496-501.	0.7	3
68	Disruption of cell proliferation and apoptosis balance in the testes of crossbred cattle-yaks affects spermatogenic cell fate and sterility. <i>Reproduction in Domestic Animals</i> , 0, , .	0.6	3
69	<i>In Vitro</i> Maturation and Development of Porcine Oocytes Cultured in a Straw or Dish Using a Portable Incubator with a CO <sub>2</sub> Chamber. <i>Reproduction in Domestic Animals</i> , 2009, 45, 619-24.	0.6	2
70	Comparison of activation ability between feline and bovine oocytes. <i>Acta Veterinaria Hungarica</i> , 2013, 61, 491-494.	0.2	2
71	Comparative Effects of Different Dosages of hCG on Follicular Development in Postpartum Dairy Cows With Cystic Ovarian Follicles. <i>Frontiers in Veterinary Science</i> , 2018, 5, 130.	0.9	2
72	The effects of electroporation on viability and quality of <i>in vivo</i> -derived bovine blastocysts. <i>Journal of Reproduction and Development</i> , 2019, 65, 475-479.	0.5	2

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73	Relationship among ovarian follicular status, developmental competence of oocytes, and anti-Müllerian hormone levels: A comparative study in Japanese wild boar crossbred gilts and Large White gilts. <i>Animal Science Journal</i> , 2019, 90, 712-718.	0.6	2
74	Vaginal stimulation enhances ovulation of queen ovaries treated using a combination of eCG and hCG. <i>Veterinary Medicine and Science</i> , 2021, 7, 1569-1574.	0.6	2
75	Improvement of the in vitro fertilization and embryo development using frozen-thawed spermatozoa of microminipigs. <i>Archives Animal Breeding</i> , 2021, 64, 265-271.	0.5	2
76	Gene editing in porcine embryos using a combination of electroporation and transfection methods. <i>Reproduction in Domestic Animals</i> , 2022, 57, 1136-1142.	0.6	2
77	Cell cycle analysis and interspecies nuclear transfer of cat cells treated with chemical inhibitors. <i>Acta Veterinaria Hungarica</i> , 2014, 62, 233-242.	0.2	1
78	Novel method utilizing bisulfite conversion with dual amplification-refractory mutation system polymerase chain reaction to detect circulating pancreatic $\beta$ -cell cDNA. <i>Journal of Diabetes Investigation</i> , 2022, , .	1.1	1
79	Effects of dibutyl cyclic adenosine monophosphate and human chorionic gonadotropin on the formation of antral follicle-like structures by bovine cumulus-oocyte complexes. <i>Acta Veterinaria Hungarica</i> , 2015, 63, 485-498.	0.2	0
80	Formation of an Antral Follicle-Like Structure by Bovine Cumulus-Oocyte Complexes Embedded with Fragmin/Protamine Microparticles. <i>Animal Biotechnology</i> , 2015, 26, 273-275.	0.7	0
81	The optimal period of Ca-EDTA treatment for parthenogenetic activation of porcine oocytes during maturation culture. <i>Journal of Veterinary Medical Science</i> , 2016, 78, 1019-1023.	0.3	0
82	Chlorogenic acid and insulin-transferrin-selenium supplementation during in vitro maturation enhances the developmental competence of interspecies chimera blastocysts following cell injection. <i>Journal of Applied Animal Research</i> , 2021, 49, 486-491.	0.4	0