Tamas Somfai

List of Publications by Year
in descending order

47 papers	1,210 citations	304368 22 h-index	377514 34 g-index
47 all docs	47 docs citations	47 times ranked	916 citing authors

#	Article	IF	Citations
1	Enhancement of lipid metabolism with L-carnitine during in vitro maturation improves nuclear maturation and cleavage ability of follicular porcine oocytes. Reproduction, Fertility and Development, 2011, 23, 912.	0.1	108
2	Promising System for Selecting Healthy In Vitroâ€“Fertilized Embryos in Cattle. PLoS ONE, 2012, 7, e36627.	1.1	95
3	Supplementation of culture medium with L-carnitine improves development and cryotolerance of bovine embryos produced in vitro. Reproduction, Fertility and Development, 2013, 25, 589.	0.1	76
4	Generation of Live Piglets from Cryopreserved Oocytes for the First Time Using a Defined System for In Vitro Embryo Production. PLoS ONE, 2014, 9, e97731.	1.1	71
5	Live Piglets Derived from In Vitro-Produced Zygotes Vitrified at the Pronuclear Stage1. Biology of Reproduction, 2009, 80, 42-49.	1.2	70
6	Low oxygen tension during in vitro maturation of porcine follicular oocytes improves parthenogenetic activation and subsequent development to the blastocyst stage. Theriogenology, 2005, 63, 1277-1289.	0.9	54
7	Production of good-quality porcine blastocysts by in vitro fertilization of follicular oocytes vitrified at the germinal vesicle stage. Theriogenology, 2010, 73, 147-156.	0.9	54
8	Factors Affecting Cryopreservation of Porcine Oocytes. Journal of Reproduction and Development, 2012, 58, 17-24.	0.5	45
9	In-straw Cryoprotectant Dilution for Bovine Embryos Vitrified Using Cryotop. Journal of Reproduction and Development, 2011, 57, 437-443.	0.5	42
10	Comparison of cytoskeletal integrity, fertilization and developmental competence of oocytes vitrified before or after in vitro maturation in a porcine model. Cryobiology, 2013, 67, 287-292.	0.3	41
11	Development to the blastocyst stage, the oxidative state, and the quality of early developmental stage of porcine embryos cultured in alteration of glucose concentrations in vitro under different oxygen tensions. Reproductive Biology and Endocrinology, 2006, 4, 54.	1.4	38
12	Optimization of cryoprotectant treatment for the vitrification of immature cumulus-enclosed porcine oocytes: comparison of sugars, combinations of permeating cryoprotectants and equilibration regimens. Journal of Reproduction and Development, 2015, 61, 571-579.	0.5	38
13	Cytoskeletal Abnormalities in Relation with Meiotic Competence and Ageing in Porcine and Bovine Oocytes During in Vitro Maturation. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2011, 40, 335-344.	0.3	34
14	Contribution of inÂvitro systems to preservation and utilization of porcine genetic resources. Theriogenology, 2016, 86, 170-175.	0.9	34
15	In vitro development of polyspermic porcine oocytes: Relationship between early fragmentation and excessive number of penetrating spermatozoa. Animal Reproduction Science, 2008, 107, 131-147.	0.5	33
16	Cryopreservation method affects DNA fragmentation in trophectoderm and the speed of re-expansion in bovine blastocysts. Cryobiology, 2016, 72, 86-92.	0.3	32
17	Comparison of Ethylene Glycol and Propylene Glycol for the Vitrification of Immature Porcine Oocytes. Journal of Reproduction and Development, 2013, 59, 378-384.	0.5	29
18	Evaluation of Developmental Competence of In Vitro-produced Porcine Embryos Based on the Timing, Pattern and Evenness of the First Cleavage and Onset of the Second Cleavage. Journal of Reproduction and Development, 2010, 56, 593-600.	0.5	28

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19	Effects of vitrification of cumulus-enclosed porcine oocytes at the germinal vesicle stage on cumulus expansion, nuclear progression and cytoplasmic maturation. Reproduction, Fertility and Development, 2017, 29, 2419.	0.1	27
20	Follicular fluid supplementation during in vitro maturation promotes sperm penetration in bovine oocytes by enhancing cumulus expansion and increasing mitochondrial activity in oocytes. Reproduction, Fertility and Development, 2012, 24, 743.	0.1	25
21	Development to the blastocyst stage of immature pig oocytes arrested before the metaphase-II stage and fertilized in vitro. Animal Reproduction Science, 2005, 90, 307-328.	0.5	24
22	Diploid porcine parthenotes produced by inhibition of first polar body extrusion during in vitro maturation of follicular oocytes. Reproduction, 2006, 132, 559-570.	1.1	23
23	The effect of resveratrol on the developmental competence of porcine oocytes vitrified at germinal vesicle stage. Reproduction in Domestic Animals, 2018, 53, 304-312.	0.6	23
24	Sex-sorting of spermatozoa affects developmental competence of <i>in vitro</i> fertilized oocytes in a bull-dependent manner. Journal of Reproduction and Development, 2016, 62, 451-456.	0.5	19
25	Faster, cheaper, defined and efficient vitrification for immature porcine oocytes through modification of exposure time, macromolecule source and temperature. Cryobiology, 2018, 85, 87-94.	0.3	17
26	Vitrification of buffalo oocytes and embryos. Theriogenology, 2016, 86, 214-220.	0.9	15
27	Selection based on morphological features of porcine embryos produced by in vitro fertilization: Timing of early cleavages and the effect of polyspermy. Animal Science Journal, 2020, 91, e13401.	0.6	12
28	The Effect of Ovary Storage and In Vitro Maturation on mRNA Levels in Bovine Oocytes; A Possible Impact of Maternal ATP1A1 on Blastocyst Development in Slaughterhouse-derived Oocytes. Journal of Reproduction and Development, 2011, 57, 723-730.	0.5	11
29	Vitrification of porcine cumulus-oocyte complexes at the germinal vesicle stage does not trigger apoptosis in oocytes and early embryos, but activates anti-apoptotic <i>Bcl-XL</i> gene expression beyond the 4-cell stage. Journal of Reproduction and Development, 2020, 66, 115-123.	0.5	11
30	Vitrification of Porcine Oocytes and Zygotes in Microdrops on a Solid Metal Surface or Liquid Nitrogen. Methods in Molecular Biology, 2021, 2180, 455-468.	0.4	11
31	Comparison of the microdrop and minimum volume cooling methods for vitrification of porcine <i>in vitro</i>-produced zygotes and blastocysts after equilibration in low concentrations of cryoprotectant agents. Journal of Reproduction and Development, 2018, 64, 457-462.	0.5	10
32	Presence of chlorogenic acid during in vitro maturation protects porcine oocytes from the negative effects of heat stress. Animal Science Journal, 2019, 90, 1530-1536.	0.6	8
33	Effect of vitrification at different meiotic stages on epigenetic characteristics of bovine oocytes and subsequently developing embryos. Animal Science Journal, 2021, 92, e13596.	0.6	8
34	Cytoskeletal and mitochondrial properties of bovine oocytes obtained by <scp>O</scp>vum <scp>P</scp>ickâ€<scp>U</scp>p: the effects of follicle stimulation and <i>in vitro</i> maturation. Animal Science Journal, 2015, 86, 970-980.	0.6	7
35	Optimization of the inÂvitro fertilization protocol for frozen epididymal sperm with low fertilization ability in Banâ€”A native Vietnamese pigs. Animal Science Journal, 2018, 89, 1079-1084.	0.6	5
36	Vitrification of immature bovine oocytes in protein-free media: The impact of the cryoprotectant treatment protocol, base medium, and ovary storage. Theriogenology, 2021, 172, 47-54.	0.9	5

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37	47 EFFECT OF L-CARNITINE TREATMENT DURING OOCYTE MATURATION ON THE POST-THAW DEVELOPMENT OF PORCINE EMBRYOS VITRIFIED AT THE PRONUCLEAR STAGE. Reproduction, Fertility and Development, 2016, 28, 153.	0.1	5
38	Cryopreservation of immature oocytes of the indigeneous Vietnamese Ban Pig. Animal Science Journal, 2019, 90, 840-848.	0.6	4
39	Synchronization of In Vitro Maturation in Porcine Oocytes. Methods in Molecular Biology, 2011, 761, 211-225.	0.4	4
40	Appearance, fate and utilization of abnormal porcine embryos produced by in vitro maturation and fertilization. Society of Reproduction and Fertility Supplement, 2009, 66, 135-47.	0.2	4
41	Excess polyspermy reduces the ability of porcine oocytes to promote male pronuclear formation after in vitro fertilization. Animal Science Journal, 2021, 92, e13650.	0.6	3
42	The effects of vitrification after equilibration in different concentrations of cryoprotectants on the survival and quality of bovine blastocysts. Animal Science Journal, 2020, 91, e13451.	0.6	2
43	Bulk vitrification of in vitro produced bovine zygotes without reducing developmental competence to the blastocyst stage. Cryobiology, 2022, 106, 32-38.	0.3	2
44	Optimization of in vitro embryo production and zygote vitrification for the indigenous Vietnamese Ban pig: The effects of different in vitro oocyte maturation systems. Animal Science Journal, 2020, 91, e13412.	0.6	1
45	29 The effect of vitrification at the immature stage on DNA methylation in porcine oocytes and its relevance to subsequent embryo development. Reproduction, Fertility and Development, 2021, 33, 122.	0.1	1
46	Production of Agu piglets after transfer of embryos produced in vitro. Animal Science Journal, 2022, 93, e13685.	0.6	1
47	Altered microfilament dynamics contribute to the formation of diploid metaphase spindles in porcine oocytes which fail to reach the metaphaseâ€‖ stage during in vitro maturation. Animal Science Journal, 2022, 93, e13690.	0.6	0