

Seung Tae Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6679375/publications.pdf>

Version: 2024-02-01

92
papers

984
citations

471509
17
h-index

501196
28
g-index

94
all docs

94
docs citations

94
times ranked

1483
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering integrin signaling for promoting embryonic stem cell self-renewal in a precisely defined niche. <i>Biomaterials</i> , 2010, 31, 1219-1226.	11.4	127
2	Light intensity and wavelength during embryo manipulation are important factors for maintaining viability of preimplantation embryos in vitro. <i>Fertility and Sterility</i> , 2007, 88, 1150-1157.	1.0	92
3	Embryonic stem cell-like cells established by culture of adult ovarian cells in mice. <i>Fertility and Sterility</i> , 2010, 93, 2594-2601.e9.	1.0	55
4	A feeder-free, defined three-dimensional polyethylene glycol-based extracellular matrix niche for culture of human embryonic stem cells. <i>Biomaterials</i> , 2013, 34, 3571-3580.	11.4	38
5	Establishment of autologous embryonic stem cells derived from preantral follicle culture and oocyte parthenogenesis. <i>Fertility and Sterility</i> , 2008, 90, 1910-1920.	1.0	32
6	Long-term maintenance of mouse embryonic stem cell pluripotency by manipulating integrin signaling within 3D scaffolds without active Stat3. <i>Biomaterials</i> , 2012, 33, 8934-8942.	11.4	32
7	Rapamycin treatment during <i>in vitro</i> maturation of oocytes improves embryonic development after parthenogenesis and somatic cell nuclear transfer in pigs. <i>Journal of Veterinary Science</i> , 2015, 16, 373.	1.3	27
8	Sorting Live Stem Cells Based on Sox2 mRNA Expression. <i>PLoS ONE</i> , 2012, 7, e49874.	2.5	24
9	Cilostamide and forskolin treatment during pre-IVM improves preimplantation development of cloned embryos by influencing meiotic progression and gap junction communication in pigs. <i>Theriogenology</i> , 2016, 86, 757-765.	2.1	23
10	Influence of ovarian hyperstimulation and ovulation induction on the cytoskeletal dynamics and developmental competence of oocytes. <i>Molecular Reproduction and Development</i> , 2006, 73, 1022-1033.	2.0	22
11	Change in gene expression of mouse embryonic stem cells derived from parthenogenetic activation. <i>Human Reproduction</i> , 2009, 24, 805-814.	0.9	22
12	VEGFR-3 Neutralization Inhibits Ovarian Lymphangiogenesis, Follicle Maturation, and Murine Pregnancy. <i>American Journal of Pathology</i> , 2013, 183, 1596-1607.	3.8	22
13	Effects of combined antioxidant supplementation on human sperm motility and morphology during sperm manipulation in vitro. <i>Fertility and Sterility</i> , 2013, 100, 373-378.	1.0	22
14	Improved Establishment of Autologous Stem Cells Derived from Preantral Follicle Culture and Oocyte Parthenogenesis. <i>Stem Cells and Development</i> , 2008, 17, 695-712.	2.1	19
15	Development of a high-yield technique to isolate spermatogonial stem cells from porcine testes. <i>Journal of Assisted Reproduction and Genetics</i> , 2014, 31, 983-991.	2.5	19
16	Culture of preantral follicles in poly(ethylene glycol)-based, three-dimensional hydrogel: a relationship between swelling ratio and follicular developments. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 319-323.	2.7	19
17	Mesenchymal Stem Cell Transplantation Promotes Functional Recovery through MMP2/STAT3 Related Astrogliosis after Spinal Cord Injury. <i>International Journal of Stem Cells</i> , 2019, 12, 331-339.	1.8	19
18	Delivery of episomal vectors into primary cells by means of commercial transfection reagents. <i>Biochemical and Biophysical Research Communications</i> , 2015, 461, 348-353.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Establishment of a basic method for manipulating preantral follicles: effects of retrieval method on in vitro growth of preantral follicles and intrafollicular oocytes. <i>Zygote</i> , 2007, 15, 109-116.	1.1	16
20	Adenosine triphosphate synthesis, mitochondrial number and activity, and pyruvate uptake in oocytes after gonadotropin injections. <i>Fertility and Sterility</i> , 2006, 86, 1164-1169.	1.0	15
21	Comparative study of the developmental competence of cloned pig embryos derived from spermatogonial stem cells and fetal fibroblasts. <i>Reproduction in Domestic Animals</i> , 2019, 54, 1258-1264.	1.4	15
22	Effect of rapamycin treatment during post-activation and/or in vitro culture on embryonic development after parthenogenesis and in vitro fertilization in pigs. <i>Reproduction in Domestic Animals</i> , 2017, 52, 741-748.	1.4	14
23	Porcine spermatogonial stem cells self-renew effectively in a three dimensional culture microenvironment. <i>Cell Biology International</i> , 2017, 41, 1316-1324.	3.0	14
24	Serum replacement with a growth factor-free synthetic substance in culture medium contributes to effective establishment of mouse embryonic stem cells of various origins. <i>Fertility and Sterility</i> , 2006, 86, 1137-1145.	1.0	13
25	Stem cell engineering: limitation, alternatives, and insight. <i>Annals of the New York Academy of Sciences</i> , 2011, 1229, 89-98.	3.8	13
26	Integrins functioning in uterine endometrial stromal and epithelial cells in estrus. <i>Reproduction</i> , 2017, 153, 351-360.	2.6	13
27	Mass Production of Early-Stage Bone-Marrow-Derived Mesenchymal Stem Cells of Rat Using Gelatin-Coated Matrix. <i>BioMed Research International</i> , 2013, 2013, 1-10.	1.9	12
28	Effects of Culture Dimensions on Maintenance of Porcine Inner Cell Mass-Derived Cell Self-Renewal. <i>Molecules and Cells</i> , 2017, 40, 117-122.	2.6	12
29	Improved viability of freeze-thawed embryonic stem cells after exposure to glutathione. <i>Fertility and Sterility</i> , 2010, 94, 2409-2412.	1.0	10
30	Generation of embryonic stem-like cells from in vivo-derived porcine blastocysts at a low concentration of basic fibroblast growth factor. <i>Reproduction in Domestic Animals</i> , 2018, 53, 176-185.	1.4	10
31	Transformation of somatic cells into stem cell-like cells under a stromal niche. <i>FASEB Journal</i> , 2013, 27, 2644-2656.	0.5	9
32	Determination of Feeder Cell-Based Cellular Niches Supporting the Colonization and Maintenance of Spermatogonial Stem Cells from Prepubertal Domestic Cat Testes. <i>Reproduction in Domestic Animals</i> , 2014, 49, 705-710.	1.4	9
33	Murine ovarian follicle culture in PEG-hydrogel: Effects of mechanical properties and the hormones FSH and LH on development. <i>Macromolecular Research</i> , 2015, 23, 377-386.	2.4	9
34	Supplement of cilostamide in growth medium improves oocyte maturation and developmental competence of embryos derived from small antral follicles in pigs. <i>Theriogenology</i> , 2017, 91, 1-8.	2.1	9
35	In vitro maturation using an agarose matrix with incorporated extracellular matrix proteins improves porcine oocyte developmental competence by enhancing cytoplasmic maturation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 807-817.	2.7	9
36	Integrin Heterodimers Expressed on the Surface of Porcine Spermatogonial Stem Cells. <i>DNA and Cell Biology</i> , 2018, 37, 253-263.	1.9	8

#	ARTICLE	IF	CITATIONS
37	Successful genetic modification of porcine spermatogonial stem cells via an electrically responsive Au nanowire injector. <i>Biomaterials</i> , 2019, 193, 22-29.	11.4	8
38	In vitro maturation on ovarian granulosa cells encapsulated in agarose matrix improves developmental competence of porcine oocytes. <i>Theriogenology</i> , 2021, 164, 42-50.	2.1	8
39	Effects of Extracellular Matrix Protein-derived Signaling on the Maintenance of the Undifferentiated State of Spermatogonial Stem Cells from Porcine Neonatal Testis. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 1398-1406.	2.4	8
40	Preimplantation and fetal development of mouse embryos cultured in a protein-free, chemically defined medium. <i>Fertility and Sterility</i> , 2007, 87, 445-447.	1.0	7
41	Identification of embryonic stem cell activities in an embryonic cell line derived from marine medaka (<i>Oryzias dancena</i>). <i>Fish Physiology and Biochemistry</i> , 2015, 41, 1569-1576.	2.3	7
42	In vitro maturation on an agarose matrix improves the developmental competence of porcine oocytes. <i>Theriogenology</i> , 2020, 157, 7-17.	2.1	7
43	In vitro oocyte maturation in a medium containing reduced sodium chloride improves the developmental competence of pig oocytes after parthenogenesis and somatic cell nuclear transfer. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1625.	0.4	6
44	Gene delivery into Siberian sturgeon cell lines by commercial transfection reagents. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 76-81.	1.5	6
45	Generation of priming mesenchymal stem cells with enhanced potential to differentiate into specific cell lineages using extracellular matrix proteins. <i>Biochemical and Biophysical Research Communications</i> , 2013, 436, 413-417.	2.1	5
46	Gelatin Directly Enhances Neurogenic Differentiation Potential in Bone Marrow-Derived Mesenchymal Stem Cells Without Stimulation of Neural Progenitor Cell Proliferation. <i>DNA and Cell Biology</i> , 2016, 35, 530-536.	1.9	5
47	Combined Treatment with Demecolcine and 6-Dimethylaminopurine during Postactivation Improves Developmental Competence of Somatic Cell Nuclear Transfer Embryos in Pigs. <i>Animal Biotechnology</i> , 2018, 29, 41-49.	1.5	5
48	Development of three dimensional culture and expression of integrin heterodimers in human embryonic stem cells. <i>Organogenesis</i> , 2013, 9, 143-148.	1.2	4
49	Development of a chemically defined in vitro culture system to effectively stimulate the proliferation of adult human dermal fibroblasts. <i>Experimental Dermatology</i> , 2015, 24, 543-545.	2.9	4
50	Medium composition for effective slow freezing of embryonic cell lines derived from marine medaka (<i>Oryzias dancena</i>). <i>Cytotechnology</i> , 2016, 68, 9-17.	1.6	4
51	Establishment of an electroporation-mediated gene delivery system in porcine spermatogonial stem cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 177-188.	1.5	4
52	Generation of embryonic stem cells derived from the inner cell mass of blastocysts of outbred ICR mice. <i>Animal Cells and Systems</i> , 2020, 24, 91-98.	2.2	4
53	Effects of in vitro Culture Period of Reconstructed Embryos and Genetic Background of Feeder Cells on Establishment of Embryonic Stem Cells Derived from Somatic Cell Nuclear Transfer Blastocysts in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2020, 35, 86-93.	0.6	4
54	Effect of Nicotinic Acid on Fresh Semen Characteristics in Miniature Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2014, 29, 385-391.	0.6	4

#	ARTICLE	IF	CITATIONS
55	Developmental Competence of Intrafollicular Oocytes Derived from Preantral Follicle Culture with Different Protocols after Parthenogenetic Activation. <i>Asian-Australasian Journal of Animal Sciences</i> , 2007, 20, 1190-1195.	2.4	4
56	Colcemid treatment during oocyte maturation improves preimplantation development of cloned pig embryos by influencing meiotic progression and cytoplasmic maturation. <i>Molecular Reproduction and Development</i> , 2015, 82, 489-497.	2.0	3
57	Integrin heterodimer $\alpha 9 \beta 1$ is localized on the surface of porcine spermatogonial stem cells in the undifferentiated state. <i>Reproduction in Domestic Animals</i> , 2019, 54, 1497-1500.	1.4	3
58	Localization of integrin heterodimer $\alpha 9 \beta 1$ on the surface of uterine endometrial stromal and epithelial cells in mice. <i>Animal Cells and Systems</i> , 2020, 24, 228-232.	2.2	3
59	Screening of integrins localized on the surface of human epidermal melanocytes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020, 56, 435-443.	1.5	3
60	Effects of L-Carnitine during the Storage of Fresh Semen in Miniature Pigs. <i>Reproductive & Developmental Biology</i> , 2014, 38, 171-177.	0.1	3
61	Recombinant FNIII9-10-derived extracellular signaling effects on the physiology of dermal fibroblasts during in vitro culture. <i>Tissue and Cell</i> , 2020, 63, 101323.	2.2	2
62	Integrins expressed on the surface of human endometrial stromal cells derived from a female patient experiencing spontaneous abortion. <i>Human Cell</i> , 2020, 33, 29-36.	2.7	2
63	A Role of Unsaturated Fatty Acid in Animal Reproductive Cells and Biology. <i>Reproductive & Developmental Biology</i> , 2016, 40, 15-22.	0.1	2
64	Establishment of In-Vitro Culture System for Enhancing Production of Somatic Cell Nuclear Transfer (SCNT) Blastocysts with High Performance in the Colony Formation and Formation of Colonies Derived from SCNT Blastocysts in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2019, 34, 130-138.	0.6	2
65	Development of a Three-dimensional Hydrogel System for the Maintenance of Porcine Spermatogonial Stem Cell Self-renewal. <i>Journal of Animal Reproduction and Biotechnology</i> , 2017, 32, 343-351.	0.6	2
66	Simplified Slow Freezing Program Established for Effective Banking of Embryonic Stem Cells. <i>Asian-Australasian Journal of Animal Sciences</i> , 2009, 22, 343-349.	2.4	2
67	Stem cell maintenance in a different niche. <i>Clinical and Experimental Reproductive Medicine</i> , 2013, 40, 47.	1.5	1
68	Identification of capacitation inducers customized to sperm retrieved from inbred mouse epididymis. <i>Biochemical and Biophysical Research Communications</i> , 2017, 488, 273-277.	2.1	1
69	Difference in suitable mechanical properties of three-dimensional, synthetic scaffolds for self-renewing mouse embryonic stem cells of different genetic backgrounds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2261-2268.	3.4	1
70	Identification of integrin heterodimers functioning on the surface of undifferentiated porcine primed embryonic stem cells. <i>Cell Biology International</i> , 2018, 42, 1221-1227.	3.0	1
71	The native form of follicle-stimulating hormone is essential for the growth of mouse preantral follicles in vitro. <i>Reproductive Biology</i> , 2021, 21, 100469.	1.9	1
72	Detrimental Effect of Bovine Serum Albumin in a Maturation Medium on Embryonic Development after Somatic Cell Nuclear Transfer in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2014, 29, 361-368.	0.6	1

#	ARTICLE	IF	CITATIONS
73	Identification of a Technique Optimized for the Isolation of Spermatogonial Stem Cells from Mouse Testes. <i>Journal of Animal Reproduction and Biotechnology</i> , 2018, 33, 327-336.	0.6	1
74	Possibility to Establish Chicken Stem Cell from Non-germline Tissue; Detection of Colony-forming Cells after Chicken Fibroblast Culture and Subsequent Stem Cell Characterization. <i>Journal of Poultry Science</i> , 2012, 49, 196-204.	1.6	1
75	Effects of Fructose in a Chemically Defined Maturation Medium on Oocyte Maturation and Parthenogenetic Embryo Development in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2017, 32, 139-146.	0.6	1
76	Screening of Integrin Heterodimers Expressed Functionally on the Undifferentiated Spermatogonial Stem Cells in the Outbred ICR Mice. <i>International Journal of Stem Cells</i> , 2020, 13, 353-363.	1.8	1
77	<i>In vitro</i> maturation on a soft agarose matrix enhances the developmental ability of pig oocytes derived from small antral follicles. <i>Journal of Animal Reproduction and Biotechnology</i> , 2022, 37, 34-41.	0.6	1
78	Identification of Stage-specific Genes Related to Porcine Folliculogenesis. <i>Reproductive & Developmental Biology</i> , 2013, 37, 17-22.	0.1	0
79	Identification of Niche Conditions Supporting Short-term Culture of Spermatogonial Stem Cells Derived from Porcine Neonatal Testis. <i>Journal of Animal Reproduction and Biotechnology</i> , 2014, 29, 221-228.	0.6	0
80	Role of Golgi Apparatus on Regulation of Sec61 ¹ , COG2 and Epidermal Growth Factor during Oocyte Maturation. <i>Reproductive & Developmental Biology</i> , 2015, 39, 37-41.	0.1	0
81	Cryo-Ability of Boar Sperm sorted by Percoll Containing of Antioxidative Enzyme. <i>Journal of Animal Reproduction and Biotechnology</i> , 2015, 30, 121-128.	0.6	0
82	Effect of glutathione on tetraploid embryo development in the pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2016, 31, 207-213.	0.6	0
83	An Increase in Mesenchymal Stem Cells Expressing Nestin in Bone-Marrow-Derived Primary Cells Stimulates Neurogenic Differentiation in Rat. <i>Journal of Animal Reproduction and Biotechnology</i> , 2017, 32, 39-45.	0.6	0
84	Oocyte maturation under a biophoton generator improves preimplantation development of pig embryos derived by parthenogenesis and somatic cell nuclear transfer. <i>Korean Journal of Veterinary Research</i> , 2017, 57, 89-95.	0.3	0
85	Caffeine treatment during <i>in vitro</i> maturation improves developmental competence of morphologically poor oocytes after somatic cell nuclear transfer in pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2017, 32, 131-138.	0.6	0
86	Effect of Monosodium Glutamate on <i>In vitro</i> Oocyte Maturation and Embryonic Development after Parthenogenesis in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2017, 32, 297-304.	0.6	0
87	Effect of Glycine and Various Osmolarities of Culture Medium on <i>In Vitro</i> Development of Parthenogenesis and Somatic Cell Nuclear Transfer Embryos in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2018, 33, 221-228.	0.6	0
88	Exogenous Nitric Oxide Donation During <i>In Vitro</i> Maturation Improves Embryonic Development after Parthenogenesis and Somatic Cell Nuclear Transfer in Pigs. <i>Journal of Animal Reproduction and Biotechnology</i> , 2018, 33, 211-220.	0.6	0
89	Effects of Superparamagnetic Iron Oxide Nanoparticles on Essential Attributes Requested in Bone Marrow-Derived Mesenchymal Stem Cells Used for Neurological Disease Therapy. <i>Journal of Biomaterials and Tissue Engineering</i> , 2019, 9, 402-407.	0.1	0
90	Various macromolecules in <i>in vitro</i> growth medium influence growth, maturation, and parthenogenetic development of pig oocytes derived from small antral follicles. <i>Korean Journal of Veterinary Research</i> , 2019, 59, 81-88.	0.3	0

#	ARTICLE	IF	CITATIONS
91	Screening of Integrin Heterodimers Expressed Functionally on the Undifferentiated Spermatogonial Stem Cells in the Outbred ICR Mice. <i>International Journal of Stem Cells</i> , 2020, 13, 353-363.	1.8	0
92	Identification of matrix metalloproteinases secreted by human hepatocarcinoma HepG2 cells. <i>Journal of Animal Reproduction and Biotechnology</i> , 2022, 37, 62-66.	0.6	0