Byeong Chun Lee

List of Publications by Year
in descending order

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87 papers	1,574 citations	361413 20 h-index	345221 36 g-index
90 all docs	90 docs citations	90 times ranked	1738 citing authors

#	Article	IF	Citations
1	Dogs cloned from adult somatic cells. Nature, 2005, 436, 641-641.	27.8	394
2	Melatonin regulates lipid metabolism in porcine oocytes. Journal of Pineal Research, 2017, 62, e12388.	7.4	106
3	Embryonic–maternal cross-talk via exosomes: potential implications. Stem Cells and Cloning: Advances and Applications, 2015, 8, 103.	2.3	69
4	Bacteriophage application to control the contaminated water with Shigella. Scientific Reports, 2016, 6, 22636.	3.3	57
5	Comparative studies on proliferation, molecular markers and differentiation potential of mesenchymal stem cells from various tissues (adipose, bone marrow, ear skin, abdominal skin, and) Tj ETQq1 1 0.784314 rgBT /Overlock Science, 2015, 100, 115-124.	1.9	42
6	Spermine reduces reactive oxygen species levels and decreases cryocapacitation in canine sperm cryopreservation. Biochemical and Biophysical Research Communications, 2016, 479, 927-932.	2.1	38
7	Melatonin influences the sonic hedgehog signaling pathway in porcine cumulus oocyte complexes. Journal of Pineal Research, 2017, 63, e12424.	7.4	38
8	Synergistic effects of resveratrol and melatonin on inÂvitro maturation of porcine oocytes and subsequent embryo development. Theriogenology, 2018, 114, 191-198.	2.1	33
9	Production and characterization of soluble human TNFRI-Fc and human HO-1(HMOX1) transgenic pigs by using the F2A peptide. Transgenic Research, 2014, 23, 407-419.	2.4	30
10	Oocyte maturation-related gene expression in the canine oviduct, cumulus cells, and oocytes and effect of co-culture with oviduct cells on in vitro maturation of oocytes. Journal of Assisted Reproduction and Genetics, 2017, 34, 929-938.	2.5	28
11	Iodixanol supplementation during sperm cryopreservation improves protamine level and reduces reactive oxygen species of canine sperm. Journal of Veterinary Science, 2019, 20, 79.	1.3	27
12	Sequential treatment with resveratrol-trolox improves development of porcine embryos derived from parthenogenetic activation and somatic cell nuclear transfer. Theriogenology, 2015, 84, 145-154.	2.1	26
13	Generation of Soluble Human Tumor Necrosis Factor-Î± Receptor 1-Fc Transgenic Pig. Transplantation, 2011, 92, 139-147.	1.0	25
14	Isolation and Comparative Genomic Analysis of T1-Like Shigella Bacteriophage pSf-2. Current Microbiology, 2016, 72, 235-41.	2.2	25
15	The HDAC Inhibitor LAQ824 Enhances Epigenetic Reprogramming and In Vitro Development of Porcine SCNT Embryos. Cellular Physiology and Biochemistry, 2017, 41, 1255-1266.	1.6	25
16	Exosomes derived from oviduct cells mediate the EGFR/MAPK signaling pathway in cumulus cells. Journal of Cellular Physiology, 2020, 235, 1386-1404.	4.1	24
17	Melatonin-Nrf2 Signaling Activates Peroxisomal Activities in Porcine Cumulus Cell-Oocyte Complexes. Antioxidants, 2020, 9, 1080.	5.1	23
18	Failure to maintain full-term pregnancies in pig carrying klotho monoallelic knockout fetuses. BMC Biotechnology, 2021, 21, 1.	3.3	23

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19	Generation of CMAHKO/GTKO/shTNFRI-Fc/HO-1 quadruple gene modified pigs. Transgenic Research, 2017, 26, 435-445.	2.4	22
20	Heavy metal accumulation in and food safety of shark meat from Jeju island, Republic of Korea. PLoS ONE, 2019, 14, e0212410.	2.5	22
21	Canine oviductal exosomes improve oocyte development via EGFR/MAPK signaling pathway. Reproduction, 2020, 160, 613-625.	2.6	22
22	Sonic hedgehog signaling mediates resveratrol to improve maturation of pig oocytes in vitro and subsequent preimplantation embryo development. Journal of Cellular Physiology, 2018, 233, 5023-5033.	4.1	20
23	Lanosterol influences cytoplasmic maturation of pig oocytes inÂvitro and improves preimplantation development of cloned embryos. Theriogenology, 2016, 85, 575-584.	2.1	19
24	Effect of co-culture canine cumulus and oviduct cells with porcine oocytes during maturation and subsequent embryo development of parthenotes inÂvitro. Theriogenology, 2018, 106, 108-116.	2.1	19
25	Age-specific variations in hematological and biochemical parameters in middle- and large-sized of dogs. Journal of Veterinary Science, 2020, 21, e7.	1.3	18
26	A potential role of knockout serum replacement as a porcine follicular fluid substitute for in vitro maturation: Lipid metabolism approach. Journal of Cellular Physiology, 2018, 233, 6984-6995.	4.1	17
27	Melatonin enhances porcine embryo development via the Nrf2/ARE signaling pathway. Journal of Molecular Endocrinology, 2019, 63, 175-185.	2.5	17
28	Zinc supplementation alleviates endoplasmic reticulum stress during porcine oocyte in vitro maturation by upregulating zinc transporters. Journal of Cellular Physiology, 2021, 236, 2869-2880.	4.1	15
29	Blastomeres aggregation as an efficient alternative for trophoblast culture from porcine parthenogenetic embryos. Development Growth and Differentiation, 2015, 57, 362-368.	1.5	13
30	Interaction of the EGFR signaling pathway with porcine cumulus oocyte complexes and oviduct cells in a coculture system. Journal of Cellular Physiology, 2019, 234, 4030-4043.	4.1	13
31	Generation by somatic cell nuclear transfer of GGTA1 knockout pigs expressing soluble human TNFRI-Fc and human HO-1. Transgenic Research, 2019, 28, 91-102.	2.4	12
32	Phytanic acid-derived peroxisomal lipid metabolism in porcine oocytes. Theriogenology, 2020, 157, 276-285.	2.1	12
33	Dog cloningâ€”no longer science fiction. Reproduction in Domestic Animals, 2018, 53, 133-138.	1.4	11
34	Proposed Motor Scoring System in a Porcine Model of Parkinsonâ€™s Disease induced by Chronic Subcutaneous Injection of MPTP. Experimental Neurobiology, 2014, 23, 258-265.	1.6	10
35	Cloned foal derived fromin vivomatured horse oocytes aspirated by the short disposable needle system. Journal of Veterinary Science, 2015, 16, 509.	1.3	10
36	Maintaining canine sperm function and osmolyte content with multistep freezing protocol and different cryoprotective agents. Cryobiology, 2015, 71, 344-349.	0.7	10

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37	Overexpressed human heme Oxygenase-1 decreases adipogenesis in pigs and porcine adipose-derived stem cells. Biochemical and Biophysical Research Communications, 2015, 467, 935-940.	2.1	10
38	Intravenous human endothelial progenitor cell administration into aged mice enhances embryo development and oocyte quality by reducing inflammation, endoplasmic reticulum stress and apoptosis. Journal of Veterinary Medical Science, 2018, 80, 1905-1913.	0.9	10
39	Effects of Protein Source and Energy Substrates on the In Vitro Development of Bovine Embryos in a Two-step Culture System. Journal of Veterinary Science, 2003, 4, 73.	1.3	10
40	Reduced birth weight, cleft palate and preputial abnormalities in a cloned dog. Acta Veterinaria Scandinavica, 2014, 56, 18.	1.6	9
41	Effect of culture medium type on canine adipose-derived mesenchymal stem cells and developmental competence of interspecies cloned embryos. Theriogenology, 2014, 81, 243-249.	2.1	9
42	Altering histone acetylation status in donor cells with suberoylanilide hydroxamic acid does not affect dog cloning efficiency. Theriogenology, 2015, 84, 1256-1261.	2.1	9
43	Propagation of elite rescue dogs by somatic cell nuclear transfer. Animal Science Journal, 2016, 87, 21-26.	1.4	9
44	Successful surgical correction of anal atresia in a transgenic cloned piglet. Journal of Veterinary Science, 2005, 6, 243.	1.3	9
45	Arthroscopy for the Diagnosis and Treatment of Failed Trochleoplasty in a Dog. Journal of Veterinary Clinics, 2015, 32, 251-254.	0.1	9
46	Effect of coâ€culture human endothelial progenitor cells with porcine oocytes during maturation and subsequent embryo development of parthenotes in vitro. Molecular Reproduction and Development, 2018, 85, 336-347.	2.0	8
47	Health and temperaments of cloned working dogs. Journal of Veterinary Science, 2018, 19, 585.	1.3	8
48	Enhancement of epigenetic reprogramming status of porcine cloned embryos with zebularine, a DNA methyltransferase inhibitor. Molecular Reproduction and Development, 2019, 86, 1013-1022.	2.0	8
49	Development of Novel Continuous and Interval Exercise Programs by Applying the FITT-VP Principle in Dogs. Scientific World Journal, The, 2020, 2020, 1-9.	2.1	8
50	Effect of primary culture medium type for culture of canine fibroblasts on production of cloned dogs. Theriogenology, 2015, 84, 524-530.	2.1	7
51	Birth of clones of the worldâ€™s first cloned dog. Scientific Reports, 2017, 7, 15235.	3.3	7
52	Despite the donor's age, human adipose-derived stem cells enhance the maturation and development rates of porcine oocytes in a co-culture system. Theriogenology, 2018, 115, 57-64.	2.1	7
53	Clinical Assessment of Intravenous Endothelial Progenitor Cell Transplantation in Dogs. Cell Transplantation, 2019, 28, 943-954.	2.5	7
54	Improved early development of porcine cloned embryos by treatment with quisinostat, a potent histone deacetylase inhibitor. Journal of Reproduction and Development, 2019, 65, 103-112.	1.4	7

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55	High Frequency of Intravenous Injection of Human Adipose Stem Cell Conditioned Medium Improved Embryo Development of Mice in Advanced Maternal Age through Antioxidant Effects. Animals, 2020, 10, 978.	2.3	7
56	Human embryonic stem cells and therapeutic cloning. Journal of Veterinary Science, 2005, 6, 87.	1.3	7
57	Nuclear-mitochondrial incompatibility in interorder rhesus monkeyâ€“cow embryos derived from somatic cell nuclear transfer. Primates, 2016, 57, 471-478.	1.1	6
58	Establishment of Transgenic Porcine Fibroblasts Expressing a Human klotho Gene and Its Effects on Gene Expression and Preimplantation Development of Cloned Embryos. DNA and Cell Biology, 2017, 36, 42-49.	1.9	6
59	The promise of dog cloning. Reproduction, Fertility and Development, 2018, 30, 1.	0.4	6
60	Effect of Klotho protein during porcine oocyte maturation via Wnt signaling. Aging, 2020, 12, 23808-23821.	3.1	6
61	Melatonin Regulates Lipid Metabolism in Porcine Cumulusâ€“Oocyte Complexes via the Melatonin Receptor 2. Antioxidants, 2022, 11, 687.	5.1	6
62	Production of CMAH Knockout Preimplantation Embryos Derived From Immortalized Porcine Cells Via TALE Nucleases. Molecular Therapy - Nucleic Acids, 2014, 3, e166.	5.1	5
63	Effects of manganese on maturation of porcine oocytes <i>in vitro</i> and their subsequent embryo development after parthenogenetic activation and somatic cell nuclear transfer. Journal of Reproduction and Development, 2019, 65, 259-265.	1.4	5
64	Adiponectin Improves In Vitro Development of Cloned Porcine Embryos by Reducing Endoplasmic Reticulum Stress and Apoptosis. Animals, 2021, 11, 473.	2.3	5
65	Learning, memory and exploratory similarities in genetically identical cloned dogs. Journal of Veterinary Science, 2016, 17, 563.	1.3	4
66	Clinical assessment after human adipose stem cell transplantation into dogs. Journal of Veterinary Science, 2018, 19, 452.	1.3	4
67	Suberoylanilide hydroxamic acid during in vitro culture improves development of dog-pig interspecies cloned embryos but not dog cloned embryos. Journal of Reproduction and Development, 2018, 64, 277-282.	1.4	4
68	Anti-Oxidative Effects of Human Adipose Stem Cell Conditioned Medium with Different Basal Medium during Mouse Embryo In Vitro Culture. Animals, 2020, 10, 1414.	2.3	4
69	Survival of Skin Graft between Transgenic Cloned Dogs and Non-Transgenic Cloned Dogs. PLoS ONE, 2014, 9, e108330.	2.5	3
70	Ectopic liver and gallbladder in a cloned dog: Possible nonheritable anomaly. Theriogenology, 2015, 84, 995-1002.	2.1	3
71	Blastocysts derivation from somatic cell fusion with premature oocytes (prematuration somatic cell) Tj ETQq1 1 0.784314 rgBT /Over	1.5	3
72	Comparison of Anti-Oxidative Effect of Human Adipose- and Amniotic Membrane-Derived Mesenchymal Stem Cell Conditioned Medium on Mouse Preimplantation Embryo Development. Antioxidants, 2021, 10, 268.	5.1	3

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73	Crosstalk between Peroxisomal Activities and Nrf2 Signaling in Porcine Embryos. Antioxidants, 2021, 10, 771.	5.1	3
74	Optimal Treatment of 6-Dimethylaminopurine Enhances the In Vivo Development of Canine Embryos by Rapid Initiation of DNA Synthesis. International Journal of Molecular Sciences, 2021, 22, 7757.	4.1	3
75	MicroRNA-210 Regulates Endoplasmic Reticulum Stress and Apoptosis in Porcine Embryos. Animals, 2021, 11, 221.	2.3	3
76	Generation of a Dystrophin Mutant in Dog by Nuclear Transfer Using CRISPR/Cas9-Mediated Somatic Cells: A Preliminary Study. International Journal of Molecular Sciences, 2022, 23, 2898.	4.1	3
77	Generation of red fluorescent protein transgenic dogs. Genesis, 2009, 47, spcone-spcone.	1.6	2
78	Age-dependent alteration of transgene expression and cytomegalovirus promoter methylation in transgenic cloned and recloned dogs. Molecular Reproduction and Development, 2015, 82, 330-331.	2.0	2
79	Adenovirus-mediated heme oxygenase-1 gene transfer to neonatal porcine islet-like cluster cells: the effects on gene expression and protection from cell stress. Biochip Journal, 2012, 6, 56-64.	4.9	1
80	Reproductive ability of a cloned male detector dog and behavioral traits of its offspring. Journal of Veterinary Science, 2016, 17, 407.	1.3	1
81	Postneonatal Mortality and Liver Changes in Cloned Pigs Associated with Human Tumor Necrosis Factor Receptor I-Fc and Human Heme Oxygenase-1 Overexpression. BioMed Research International, 2017, 2017, 1-10.	1.9	1
82	The Interplay Between Oviduct-Derived Exosomes and Cumulus-Oocyte Complexes. , 2021, , 99-113.		1
83	Dog recloning from muscle fibroblasts in transgenic cloned beagle: Regeneration of an identical transgenic dog. , 2010, , .		0
84	Generation of transgenic dogs that conditionally express green fluorescent protein. Genesis, 2011, 49, spcone-spcone.	1.6	0
85	Mineralized deposits in the uterus of a pig without pregnancy loss. Journal of Veterinary Science, 2017, 18, 563.	1.3	0
86	Up-regulation of fibrinogen-like protein 2 in porcine endothelial cells by xenogeneic CD40 signal. Animal Cells and Systems, 2018, 22, 92-99.	2.2	0
87	Establishment and identification of cell lines from type O blood Korean native pigs and their efficiency in supporting embryonic development via somatic cell nuclear transfer. Journal of Veterinary Science, 2018, 19, 492.	1.3	0