Chang-Kyu Lee

List of Publications by Year
in descending order

66 papers	1,091 citations	471509 17 h-index	454955 30 g-index
70 all docs	70 docs citations	70 times ranked	1485 citing authors

#	Article	IF	Citations
1	Enzymatic Synthesis and Properties of Highly Branched Rice Starch Amylose and Amylopectin Cluster. Journal of Agricultural and Food Chemistry, 2008, 56, 126-131.	5.2	90
2	Muscle stem cell isolation and <i>in vitro</i> culture for meat production: A methodological review. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 429-457.	11.7	70
3	Bisphenol A and Nonylphenol Have the Potential to Stimulate the Migration of Ovarian Cancer Cells by Inducing Epithelialâ€“Mesenchymal Transition via an Estrogen Receptor Dependent Pathway. Chemical Research in Toxicology, 2015, 28, 662-671.	3.3	69
4	Primed Pluripotent Cell Lines Derived from Various Embryonic Origins and Somatic Cells in Pig. PLoS ONE, 2013, 8, e52481.	2.5	64
5	17Î²-Estradiol protects mesenchymal stem cells against high glucose-induced mitochondrial oxidants production via Nrf2/Sirt3/MnSOD signaling. Free Radical Biology and Medicine, 2019, 130, 328-342.	2.9	63
6	Chemically Defined Media Can Maintain Pig Pluripotency Network InÂVitro. Stem Cell Reports, 2019, 13, 221-234.	4.8	59
7	Analysis of Imprinted Gene Expression in Normal Fertilized and Uniparental Preimplantation Porcine Embryos. PLoS ONE, 2011, 6, e22216.	2.5	47
8	Methylation status of differentially methylated regions at Igf2/H19 locus in porcine gametes and preimplantation embryos. Genomics, 2009, 93, 179-186.	2.9	46
9	A modified swim-up method reduces polyspermy during in vitro fertilization of porcine oocytes. Animal Reproduction Science, 2009, 115, 169-181.	1.5	34
10	Quantitative analysis of sperm mRNA in the pig: relationship with early embryo development and capacitation. Reproduction, Fertility and Development, 2013, 25, 807.	0.4	34
11	In vitro development and cell allocation of porcine blastocysts derived by aggregation of in vitro fertilized embryos. Molecular Reproduction and Development, 2007, 74, 1436-1445.	2.0	33
12	Naked Mole Rat Induced Pluripotent Stem Cells and Their Contribution to Interspecific Chimera. Stem Cell Reports, 2017, 9, 1706-1720.	4.8	30
13	X-Linked Gene Transcription Patterns in Female and Male In Vivo, In Vitro and Cloned Porcine Individual Blastocysts. PLoS ONE, 2012, 7, e51398.	2.5	26
14	Reactivation of Endogenous Genes and Epigenetic Remodeling Are Barriers for Generating Transgene-Free Induced Pluripotent Stem Cells in Pig. PLoS ONE, 2016, 11, e0158046.	2.5	24
15	Genetic Defects in DNAH2 Underlie Male Infertility With Multiple Morphological Abnormalities of the Sperm Flagella in Humans and Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 662903.	3.7	22
16	Development of vitrifiedâ€“thawed bovine oocytes after in vitro fertilization and somatic cell nuclear transfer. Animal Reproduction Science, 2008, 103, 25-37.	1.5	21
17	Investigation of De Novo Unique Differentially Expressed Genes Related to Evolution in Exercise Response during Domestication in Thoroughbred Race Horses. PLoS ONE, 2014, 9, e91418.	2.5	20
18	Analysis of Stage-Specific Gene Expression Profiles in the Uterine Endometrium during Pregnancy in Pigs. PLoS ONE, 2015, 10, e0143436.	2.5	20

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19	Microarray Analysis of Gene Expression in the Uterine Endometrium during the Implantation Period in Pigs. Asian-Australasian Journal of Animal Sciences, 2012, 25, 1102-1116.	2.4	20
20	Putative embryonic stem cells derived from porcine cloned blastocysts using induced pluripotent stem cells as donors. Theriogenology, 2016, 85, 601-616.	2.1	19
21	Optimization of Culture Conditions for Maintaining Pig Muscle Stem Cells In Vitro. Food Science of Animal Resources, 2020, 40, 659-667.	4.1	16
22	Stearoyl-coenzyme A desaturase 1 is required for lipid droplet formation in pig embryo. Reproduction, 2019, 157, 235-243.	2.6	15
23	Dosage compensation of X-chromosome inactivation center-linked genes in porcine preimplantation embryos: Non-chromosome-wide initiation of X-chromosome inactivation in blastocysts. Mechanisms of Development, 2015, 138, 246-255.	1.7	14
24	Technical requirements for cultured meat production: a review. Journal of Animal Science and Technology, 2021, 63, 681-692.	2.5	14
25	Pig Pluripotent Stem Cells as a Candidate for Biomedical Application. Journal of Animal Reproduciton and Biotechnology, 2019, 34, 139-147.	0.6	14
26	High Glucose-Induced Reactive Oxygen Species Stimulates Human Mesenchymal Stem Cell Migration Through Snail and EZH2-Dependent E-Cadherin Repression. Cellular Physiology and Biochemistry, 2018, 46, 1749-1767.	1.6	13
27	SOX2 plays a crucial role in cell proliferation and lineage segregation during porcine preâ€implantation embryo development. Cell Proliferation, 2021, 54, e13097.	5.3	12
28	Purification of Pig Muscle Stem Cells Using Magnetic-Activated Cell Sorting (MACS) Based on the Expression of Cluster of Differentiation 29 (CD29). Food Science of Animal Resources, 2020, 40, 852-859.	4.1	12
29	Multi-resistance strategy for viral diseases and in vitro short hairpin RNA verification method in pigs. Asian-Australasian Journal of Animal Sciences, 2018, 31, 489-498.	2.4	11
30	Epigenetic Changes of Lentiviral Transgenes in Porcine Stem Cells Derived from Embryonic Origin. PLoS ONE, 2013, 8, e72184.	2.5	10
31	Modulation of sonic hedgehogâ€induced mouse embryonic stem cell behaviours through Eâ€cadherin expression and integrin Î²1â€dependent Fâ€actin formation. British Journal of Pharmacology, 2018, 175, 3548-3562.	5.4	9
32	Pluripotent pig embryonic stem cell lines originating from in vitro-fertilized and parthenogenetic embryos. Stem Cell Research, 2020, 49, 102093.	0.7	9
33	Identification of the Porcine XIST Gene and Its Differential CpG Methylation Status in Male and Female Pig Cells. PLoS ONE, 2013, 8, e73677.	2.5	9
34	Aggregation of cloned embryos in empty zona pellucida improves derivation efficiency of pig ES-like cells. Zygote, 2016, 24, 909-917.	1.1	8
35	Identification of the Lineage Markers and Inhibition of DAB2 in In Vitro Fertilized Porcine Embryos. International Journal of Molecular Sciences, 2020, 21, 7275.	4.1	7
36	Generation of Neural Progenitor Cells from Pig Embryonic Germ Cells. Journal of Animal Reproduciton and Biotechnology, 2020, 35, 42-49.	0.6	7

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37	Linoleic acid reduces apoptosis via NF-ÎºB during the inÂvitro development of induced parthenogenic porcine embryos. Theriogenology, 2022, 187, 173-181.	2.1	7
38	Identification and differential expression patterns of porcine OCT4 variants. Reproduction, 2015, 149, 55-66.	2.6	6
39	Combination of cell signaling molecules can facilitate MYOD1-mediated myogenic transdifferentiation of pig fibroblasts. Journal of Animal Science and Biotechnology, 2021, 12, 64.	5.3	6
40	Amino Acid Supplementation Affects Imprinted Gene Transcription Patterns in Parthenogenetic Porcine Blastocysts. PLoS ONE, 2014, 9, e106549.	2.5	5
41	Analysis of imprinted IGF2/H19 gene methylation and expression in normal fertilized and parthenogenetic embryonic stem cells of pigs. Animal Reproduction Science, 2014, 147, 47-55.	1.5	5
42	Ginsenoside Rg1 Improves <i>In vitro</i>-produced Embryo Quality by Increasing Glucose Uptake in Porcine Blastocysts. Asian-Australasian Journal of Animal Sciences, 2016, 29, 1095-1101.	2.4	5
43	Treatment of aromatase (CYP19A1) inhibitor reduces fertility in porcine sperm. Zygote, 2016, 24, 98-106.	1.1	5
44	Identification and Characterization of the<i>OCT4</i>Upstream Regulatory Region in<i>Sus scrofa</i>. Stem Cells International, 2019, 2019, 1-11.	2.5	5
45	Porcine <i>OCT4</i> Reporter System Can Monitor Species-Specific Pluripotency During Somatic Cell Reprogramming. Cellular Reprogramming, 2021, 23, 168-179.	0.9	5
46	Copy Number Deletion Has Little Impact on Gene Expression Levels in Racehorses. Asian-Australasian Journal of Animal Sciences, 2014, 27, 1345-1354.	2.4	5
47	FGF2 Signaling Plays an Important Role in Maintaining Pluripotent State of Pig Embryonic Germ Cells. Cellular Reprogramming, 2018, 20, 301-311.	0.9	4
48	An Improved System for Generation of Diploid Cloned Porcine Embryos Using Induced Pluripotent Stem Cells Synchronized to Metaphase. PLoS ONE, 2016, 11, e0160289.	2.5	4
49	Enzymatic biosynthesis of a puerarinâ€“cycloamylose inclusion complex by 4-Î±-glucanotransferase and maltogenic amylase. Biocatalysis and Biotransformation, 2010, 28, 209-214.	2.0	3
50	â€œSmartâ€•microspheres for self-renewal of embryonic stem cells. Macromolecular Research, 2013, 21, 134-136.	2.4	3
51	Comparative genomic analysis of mitochondrial protein-coding genes in Veneroida clams: Analysis of superfamily-specific genomic and evolutionary features. Marine Genomics, 2015, 24, 329-334.	1.1	3
52	Ultrastructural comparison of porcine putative embryonic stem cells derived by <i>in vitro</i> fertilization and somatic cell nuclear transfer. Journal of Reproduction and Development, 2016, 62, 177-185.	1.4	3
53	Transcriptome profiling of pluripotent pig embryonic stem cells originating from uni- and biparental embryos. BMC Research Notes, 2020, 13, 144.	1.4	3
54	Progesterone receptor membrane component 1 (PGRMC1)-mediated progesterone effect on preimplantation development of inÂvitro produced porcine embryos. Theriogenology, 2020, 147, 39-49.	2.1	3

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55	Availability of Empty Zona Pellucida for Generating Embryonic Chimeras. PLoS ONE, 2015, 10, e0123178.	2.5	3
56	Pig embryonic stem cell line with porcine-specific OCT4 upstream region based dual reporter system. Stem Cell Research, 2021, 57, 102609.	0.7	3
57	Trends in safety management of cultured meat and their potential considerations. Food and Life, 2022, 2022, 1-8.	0.5	3
58	Embryo Aggregation Promotes Derivation Efficiency of Outgrowths from Porcine Blastocysts. Asian-Australasian Journal of Animal Sciences, 2015, 28, 1565-1572.	2.4	2
59	Attempting to Convert Primed Porcine Embryonic Stem Cells into a Naive State Through the Overexpression of Reprogramming Factors. Cellular Reprogramming, 2018, 20, 289-300.	0.9	2
60	Species-Specific Enhancer Activity of OCT4 in Porcine Pluripotency: The Porcine OCT4 Reporter System Could Monitor Pluripotency in Porcine Embryo Development and Embryonic Stem Cells. Stem Cells International, 2022, 2022, 1-18.	2.5	2
61	Data for identification of porcine X-chromosome inactivation center, XIC, by genomic comparison with human and mouse XIC. Data in Brief, 2015, 5, 1072-1077.	1.0	1
62	Complete genome sequence and SNPs of Raja pulchra (Rajiformes, Rajidae) mitochondria. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 2975-2977.	0.7	1
63	Overexpression of <i>OCT4A</i> ortholog elevates endogenous <i>XIST</i> in porcine parthenogenic blastocysts. Journal of Reproduction and Development, 2015, 61, 533-540.	1.4	1
64	Porcine OCT4 reporter system as a tool for monitoring pluripotency states. Journal of Animal Reproduciton and Biotechnology, 2021, 36, 175-182.	0.6	1
65	MicroRNA expression data of pluripotent and somatic cells and identification of cell type-specific MicroRNAs in pigs. Data in Brief, 2020, 33, 106563.	1.0	0
66	Derivation of Porcine Embryonic Stem Cells from the Aggregation of In Vitro-Fertilized Embryos.. Biology of Reproduction, 2008, 78, 155-155.	2.7	0