

Valeri Zakhartchenko

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

2,183
citations

22
h-index

46
g-index

46
ext. papers

2,624
ext. citations

6.5
avg, IF

4.24
L-index

#	Paper	IF	Citations
43	Epigenetic marking correlates with developmental potential in cloned bovine preimplantation embryos. <i>Current Biology</i> , 2003 , 13, 1116-21	6.3	458
42	Consistent success in life-supporting porcine cardiac xenotransplantation. <i>Nature</i> , 2018 , 564, 430-433	50.4	197
41	Fine mapping of genome activation in bovine embryos by RNA sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4139-44	11.5	195
40	Mitochondrial DNA heteroplasmy in cloned cattle produced by fetal and adult cell cloning. <i>Nature Genetics</i> , 2000 , 25, 255-7	36.3	147
39	The endometrium responds differently to cloned versus fertilized embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5681-6	11.5	143
38	Dystrophin-deficient pigs provide new insights into the hierarchy of physiological derangements of dystrophic muscle. <i>Human Molecular Genetics</i> , 2013 , 22, 4368-82	5.6	94
37	Efficient production of multi-modified pigs for xenotransplantation by genome editing, gene stacking and gene editing. <i>Scientific Reports</i> , 2016 , 6, 29081	4.9	89
36	Genome activation in bovine embryos: review of the literature and new insights from RNA sequencing experiments. <i>Animal Reproduction Science</i> , 2014 , 149, 46-58	2.1	87
35	Tissue-specific elevated genomic cytosine methylation levels are associated with an overgrowth phenotype of bovine fetuses derived by in vitro techniques. <i>Biology of Reproduction</i> , 2004 , 71, 217-23	3.9	87
34	A porcine model of familial adenomatous polyposis. <i>Gastroenterology</i> , 2012 , 143, 1173-1175.e7	13.3	86
33	Inactivation and inducible oncogenic mutation of p53 in gene targeted pigs. <i>PLoS ONE</i> , 2012 , 7, e43323	3.7	57
32	OCT4/POU5F1 is required for NANOG expression in bovine blastocysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 2770-2775	11.5	54
31	Regulatory sequences of the porcine THBD gene facilitate endothelial-specific expression of bioactive human thrombomodulin in single- and multitransgenic pigs. <i>Transplantation</i> , 2014 , 97, 138-47	1.8	51
30	Potential of primary kidney cells for somatic cell nuclear transfer mediated transgenesis in pig. <i>BMC Biotechnology</i> , 2012 , 12, 84	3.5	38
29	Quantitative monitoring of pluripotency gene activation after somatic cloning in cattle. <i>Biology of Reproduction</i> , 2007 , 76, 983-91	3.9	38
28	Reprogramming of fibroblast nuclei in cloned bovine embryos involves major structural remodeling with both striking similarities and differences to nuclear phenotypes of in vitro fertilized embryos. <i>Nucleus</i> , 2014 , 5, 555-89	3.9	37
27	Viable pigs after simultaneous inactivation of porcine MHC class I and three xenoreactive antigen genes GGTA1, CMAH and B4GALNT2. <i>Xenotransplantation</i> , 2020 , 27, e12560	2.8	37

26	Dual fluorescent reporter pig for Cre recombination: transgene placement at the ROSA26 locus. <i>PLoS ONE</i> , 2014 , 9, e102455	3.7	34
25	Transgenic Technology in Farm Animals [Progress and Perspectives. <i>Experimental Physiology</i> , 2000 , 85, 615-625	2.4	32
24	Transgenic Technology in Farm Animals [Progress and Perspectives 2000 , 85, 615		26
23	Remodeling of the Nuclear Envelope and Lamina during Bovine Preimplantation Development and Its Functional Implications. <i>PLoS ONE</i> , 2015 , 10, e0124619	3.7	24
22	INS-eGFP transgenic pigs: a novel reporter system for studying maturation, growth and vascularisation of neonatal islet-like cell clusters. <i>Diabetologia</i> , 2017 , 60, 1152-1156	10.3	22
21	Quantification of leukocyte genomic 5-methylcytosine levels reveals epigenetic plasticity in healthy adult cloned cattle. <i>Cellular Reprogramming</i> , 2010 , 12, 175-81	2.1	21
20	Early weaning completely eliminates porcine cytomegalovirus from a newly established pig donor facility for xenotransplantation. <i>Xenotransplantation</i> , 2018 , 25, e12449	2.8	19
19	Pig-to-non-human primate heart transplantation: The final step toward clinical xenotransplantation?. <i>Journal of Heart and Lung Transplantation</i> , 2020 , 39, 751-757	5.8	18
18	Single-cell RNA sequencing reveals developmental heterogeneity of blastomeres during major genome activation in bovine embryos. <i>Scientific Reports</i> , 2018 , 8, 4071	4.9	18
17	Comparative aspects of early lineage specification events in mammalian embryos - insights from reverse genetics studies. <i>Cell Cycle</i> , 2018 , 17, 1688-1695	4.7	12
16	Strong xenoprotective function by single-copy transgenes placed sequentially at a permissive locus. <i>Xenotransplantation</i> , 2018 , 25, e12382	2.8	11
15	Growth hormone receptor knockout to reduce the size of donor pigs for preclinical xenotransplantation studies. <i>Xenotransplantation</i> , 2021 , 28, e12664	2.8	10
14	Cas9-expressing chickens and pigs as resources for genome editing in livestock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
13	Direct introduction of gene constructs into the pronucleus-like structure of cloned embryos: a new strategy for the generation of genetically modified pigs. <i>Transgenic Research</i> , 2017 , 26, 309-318	3.3	6
12	Manipulating the Epigenome in Nuclear Transfer Cloning: Where, When and How. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	5
11	Vascular Endothelial Growth Factor A and VEGFR-1 Change during Preimplantation in Heifers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
10	Sequential in vivo labeling of insulin secretory granule pools in - transgenic pigs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
9	3D structured illumination microscopy of mammalian embryos and spermatozoa. <i>BMC Developmental Biology</i> , 2015 , 15, 46	3.1	3

8	A decade of experience with genetically tailored pig models for diabetes and metabolic research. <i>Animal Reproduction</i> , 2020 , 17, e20200064	1.7	3
7	Initiation of Conceptus Elongation Coincides with an Endometrium Basic Fibroblast Growth Factor (FGF2) Protein Increase in Heifers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
6	Mitochondrial DNA Depletion in Granulosa Cell Derived Nuclear Transfer Tissues. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 664099	5.7	2
5	Transgenic pigs expressing near infrared fluorescent protein-A novel tool for noninvasive imaging of islet xenotransplants.. <i>Xenotransplantation</i> , 2021 , e12719	2.8	1
4	Hypoblast Formation in Bovine Embryos Does Not Depend on NANOG. <i>Cells</i> , 2021 , 10,	7.9	1
3	The Missing Link: Cre Pigs for Cancer Research. <i>Frontiers in Oncology</i> , 2021 , 11, 755746	5.3	0
2	OCT4/POU5F1 is indispensable for the lineage differentiation of the inner cell mass in bovine embryos.. <i>FASEB Journal</i> , 2022 , 36, e22337	0.9	0
1	Targeting Gal epitopes for multi-species embryo immunosurgery. <i>Reproduction, Fertility and Development</i> , 2019 , 31, 820-826	1.8	