Valeri Zakhartchenko

List of Publications by Year in Descending Order

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	OCT4/POU5F1 is indispensable for the lineage differentiation of the inner cell mass in bovine embryos.. *FASEB Journal*, **2022**, 36, e22337	0.9	0
42	Transgenic pigs expressing near infrared fluorescent protein-A novel tool for noninvasive imaging of islet xenotransplants.. *Xenotransplantation*, **2021**, e12719	2.8	1
41	The Missing Link: Cre Pigs for Cancer Research. *Frontiers in Oncology*, **2021**, 11, 755746	5.3	0
40	Cas9-expressing chickens and pigs as resources for genome editing in livestock. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
39	Mitochondrial DNA Depletion in Granulosa Cell Derived Nuclear Transfer Tissues. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 664099	5.7	2
38	Growth hormone receptor knockout to reduce the size of donor pigs for preclinical xenotransplantation studies. *Xenotransplantation*, **2021**, 28, e12664	2.8	10
37	Hypoblast Formation in Bovine Embryos Does Not Depend on NANOG. *Cells*, **2021**, 10,	7.9	1
36	Sequential in vivo labeling of insulin secretory granule pools in - transgenic pigs. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
35	Pig-to-non-human primate heart transplantation: The final step toward clinical xenotransplantation?. *Journal of Heart and Lung Transplantation*, **2020**, 39, 751-757	5.8	18
34	Initiation of Conceptus Elongation Coincides with an Endometrium Basic Fibroblast Growth Factor (FGF2) Protein Increase in Heifers. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
33	Vascular Endothelial Growth Factor A and VEGFR-1 Change during Preimplantation in Heifers. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
32	A decade of experience with genetically tailored pig models for diabetes and metabolic research. *Animal Reproduction*, **2020**, 17, e20200064	1.7	3
31	Manipulating the Epigenome in Nuclear Transfer Cloning: Where, When and How. *International Journal of Molecular Sciences*, **2020**, 22,	6.3	5
30	Viable pigs after simultaneous inactivation of porcine MHC class I and three xenoreactive antigen genes GGTA1, CMAH and B4GALNT2. *Xenotransplantation*, **2020**, 27, e12560	2.8	37
29	Targeting Gal epitopes for multi-species embryo immunosurgery. *Reproduction, Fertility and Development*, **2019**, 31, 820-826	1.8	
28	Single-cell RNA sequencing reveals developmental heterogeneity of blastomeres during major genome activation in bovine embryos. *Scientific Reports*, **2018**, 8, 4071	4.9	18
27	OCT4/POU5F1 is required for NANOG expression in bovine blastocysts. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2770-2775	11.5	54

26	Strong xenoprotective function by single-copy transgenes placed sequentially at a permissive locus. *Xenotransplantation*, **2018**, 25, e12382	2.8	11
25	Comparative aspects of early lineage specification events in mammalian embryos - insights from reverse genetics studies. *Cell Cycle*, **2018**, 17, 1688-1695	4.7	12
24	Consistent success in life-supporting porcine cardiac xenotransplantation. *Nature*, **2018**, 564, 430-433	50.4	197
23	Early weaning completely eliminates porcine cytomegalovirus from a newly established pig donor facility for xenotransplantation. *Xenotransplantation*, **2018**, 25, e12449	2.8	19
22	INS-eGFP transgenic pigs: a novel reporter system for studying maturation, growth and vascularisation of neonatal islet-like cell clusters. *Diabetologia*, **2017**, 60, 1152-1156	10.3	22
21	Direct introduction of gene constructs into the pronucleus-like structure of cloned embryos: a new strategy for the generation of genetically modified pigs. *Transgenic Research*, **2017**, 26, 309-318	3.3	6
20	Efficient production of multi-modified pigs for xenotransplantation by ‘combineering’, gene stacking and gene editing. *Scientific Reports*, **2016**, 6, 29081	4.9	89
19	3D structured illumination microscopy of mammalian embryos and spermatozoa. *BMC Developmental Biology*, **2015**, 15, 46	3.1	3
18	Remodeling of the Nuclear Envelope and Lamina during Bovine Preimplantation Development and Its Functional Implications. *PLoS ONE*, **2015**, 10, e0124619	3.7	24
17	Fine mapping of genome activation in bovine embryos by RNA sequencing. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4139-44	11.5	195
16	Genome activation in bovine embryos: review of the literature and new insights from RNA sequencing experiments. *Animal Reproduction Science*, **2014**, 149, 46-58	2.1	87
15	Regulatory sequences of the porcine THBD gene facilitate endothelial-specific expression of bioactive human thrombomodulin in single- and multitransgenic pigs. *Transplantation*, **2014**, 97, 138-47	1.8	51
14	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. *Nucleus*, **2014**, 5, 555-89	3.9	37
13	Dual fluorescent reporter pig for Cre recombination: transgene placement at the ROSA26 locus. *PLoS ONE*, **2014**, 9, e102455	3.7	34
12	Dystrophin-deficient pigs provide new insights into the hierarchy of physiological derangements of dystrophic muscle. *Human Molecular Genetics*, **2013**, 22, 4368-82	5.6	94
11	Potential of primary kidney cells for somatic cell nuclear transfer mediated transgenesis in pig. *BMC Biotechnology*, **2012**, 12, 84	3.5	38
10	A porcine model of familial adenomatous polyposis. *Gastroenterology*, **2012**, 143, 1173-1175.e7	13.3	86
9	Inactivation and inducible oncogenic mutation of p53 in gene targeted pigs. *PLoS ONE*, **2012**, 7, e43323	3.7	57

8	Quantification of leukocyte genomic 5-methylcytosine levels reveals epigenetic plasticity in healthy adult cloned cattle. *Cellular Reprogramming*, **2010**, 12, 175-81	2.1	21
7	The endometrium responds differently to cloned versus fertilized embryos. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5681-6	11.5	143
6	Quantitative monitoring of pluripotency gene activation after somatic cloning in cattle. *Biology of Reproduction*, **2007**, 76, 983-91	3.9	38
5	Tissue-specific elevated genomic cytosine methylation levels are associated with an overgrowth phenotype of bovine fetuses derived by in vitro techniques. *Biology of Reproduction*, **2004**, 71, 217-23	3.9	87
4	Epigenetic marking correlates with developmental potential in cloned bovine preimplantation embryos. *Current Biology*, **2003**, 13, 1116-21	6.3	458
3	Mitochondrial DNA heteroplasmy in cloned cattle produced by fetal and adult cell cloning. *Nature Genetics*, **2000**, 25, 255-7	36.3	147
2	Transgenic Technology in Farm Animals Progress and Perspectives. *Experimental Physiology*, **2000**, 85, 615-625	2.4	32
1	Transgenic Technology in Farm Animals Progress and Perspectives **2000**, 85, 615		26