

# Wilfried A Kues

## List of Publications by Citations

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129  
papers

4,078  
citations

39  
h-index

59  
g-index

138  
ext. papers

4,461  
ext. citations

4.1  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
129	Delayed embryonic lethality in mice lacking protein phosphatase 2A catalytic subunit Calpha. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 12370-5	11.5	179
128	Characterization of a Shaw-related potassium channel family in rat brain.. <i>EMBO Journal</i> , <b>1992</b> , 11, 2473-2486	3.5	147
127	Telomere length is reset during early mammalian embryogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 8034-8	11.5	146
126	The contribution of farm animals to human health. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 286-94	15.1	142
125	Knockdown of porcine endogenous retrovirus (PERV) expression by PERV-specific shRNA in transgenic pigs. <i>Xenotransplantation</i> , <b>2008</b> , 15, 36-45	2.8	128
124	Genome-wide expression profiling reveals distinct clusters of transcriptional regulation during bovine preimplantation development in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 19768-73	11.5	124
123	Reprotoxicity of gold, silver, and gold-silver alloy nanoparticles on mammalian gametes. <i>Analyst, The</i> , <b>2014</b> , 139, 931-42	5	121
122	Current state of laser synthesis of metal and alloy nanoparticles as ligand-free reference materials for nano-toxicological assays. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1523-41	3	111
121	Application of transgenesis in livestock for agriculture and biomedicine. <i>Animal Reproduction Science</i> , <b>2003</b> , 79, 291-317	2.1	107
120	Primary structure and functional expression of the alpha-, beta-, gamma-, delta- and epsilon-subunits of the acetylcholine receptor from rat muscle. <i>FEBS Journal</i> , <b>1990</b> , 194, 437-48		101
119	Heterogeneous Expression Patterns of Mammalian Potassium Channel Genes in Developing and Adult Rat Brain. <i>European Journal of Neuroscience</i> , <b>1992</b> , 4, 1296-1308	3.5	99
118	Germline transgenic pigs by Sleeping Beauty transposition in porcine zygotes and targeted integration in the pig genome. <i>PLoS ONE</i> , <b>2011</b> , 6, e23573	3.7	99
117	Transgenic farm animals: an update. <i>Reproduction, Fertility and Development</i> , <b>2007</b> , 19, 762-70	1.8	89
116	Isolation of murine and porcine fetal stem cells from somatic tissue. <i>Biology of Reproduction</i> , <b>2005</b> , 72, 1020-8	3.9	78
115	Advances in farm animal transgenesis. <i>Preventive Veterinary Medicine</i> , <b>2011</b> , 102, 146-56	3.1	71
114	Derivation and characterization of sleeping beauty transposon-mediated porcine induced pluripotent stem cells. <i>Stem Cells and Development</i> , <b>2013</b> , 22, 124-35	4.4	65
113	Distribution and expression of porcine endogenous retroviruses in multi-transgenic pigs generated for xenotransplantation. <i>Xenotransplantation</i> , <b>2009</b> , 16, 64-73	2.8	65

112	Differential expression patterns of five acetylcholine receptor subunit genes in rat muscle during development. <i>European Journal of Neuroscience</i> , <b>1995</b> , 7, 1376-85	3.5	65
111	Epigenetic silencing and tissue independent expression of a novel tetracycline inducible system in double-transgenic pigs. <i>FASEB Journal</i> , <b>2006</b> , 20, 1200-2	0.9	62
110	Transgenic livestock: premises and promises. <i>Animal Reproduction Science</i> , <b>2000</b> , 60-61, 277-93	2.1	60
109	Cytoplasmic injection of circular plasmids allows targeted expression in mammalian embryos. <i>BioTechniques</i> , <b>2009</b> , 47, 959-68	2.5	59
108	Germline transgenesis in pigs by cytoplasmic microinjection of Sleeping Beauty transposons. <i>Nature Protocols</i> , <b>2014</b> , 9, 810-27	18.8	58
107	Bovine ICM derived cells express the Oct4 ortholog. <i>Molecular Reproduction and Development</i> , <b>2005</b> , 72, 182-90	2.6	58
106	Derivation and characterization of bovine induced pluripotent stem cells by transposon-mediated reprogramming. <i>Cellular Reprogramming</i> , <b>2015</b> , 17, 131-40	2.1	57
105	Influence of gold, silver and gold-silver alloy nanoparticles on germ cell function and embryo development. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 651-664	3	54
104	Inhibition of porcine endogenous retroviruses (PERVs) in primary porcine cells by RNA interference using lentiviral vectors. <i>Archives of Virology</i> , <b>2007</b> , 152, 629-34	2.6	54
103	Cytomegalovirus early promoter induced expression of hCD59 in porcine organs provides protection against hyperacute rejection. <i>Transplantation</i> , <b>2001</b> , 72, 1898-906	1.8	52
102	Local neurotrophic repression of gene transcripts encoding fetal AChRs at rat neuromuscular synapses. <i>Journal of Cell Biology</i> , <b>1995</b> , 130, 949-57	7.3	51
101	Germline transgenesis in rodents by pronuclear microinjection of Sleeping Beauty transposons. <i>Nature Protocols</i> , <b>2014</b> , 9, 773-93	18.8	50
100	Duration of in vitro maturation of recipient oocytes affects blastocyst development of cloned porcine embryos. <i>Cloning and Stem Cells</i> , <b>2005</b> , 7, 35-44		50
99	Current progress of genetically engineered pig models for biomedical research. <i>BioResearch Open Access</i> , <b>2014</b> , 3, 255-64	2.4	49
98	Sex selection of sperm in farm animals: status report and developmental prospects. <i>Reproduction</i> , <b>2013</b> , 145, R15-30	3.8	48
97	Gold nanoparticles interfere with sperm functionality by membrane adsorption without penetration. <i>Nanotoxicology</i> , <b>2014</b> , 8 Suppl 1, 118-27	5.3	47
96	Toxicity of gold nanoparticles on somatic and reproductive cells. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 733, 125-33	3.6	47
95	Different mechanisms regulate muscle-specific AChR gamma- and epsilon-subunit gene expression.. <i>EMBO Journal</i> , <b>1991</b> , 10, 2957-2964	13	46

94	Nonendosomal cellular uptake of ligand-free, positively charged gold nanoparticles. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2010</b> , 77, 439-46	4.6	43
93	Cell cycle synchronization of porcine fetal fibroblasts by serum deprivation initiates a nonconventional form of apoptosis. <i>Cloning and Stem Cells</i> , <b>2002</b> , 4, 231-43		42
92	Pluripotent stem cells and reprogrammed cells in farm animals. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 474-97	0.5	41
91	Oct4-enhanced green fluorescent protein transgenic pigs: a new large animal model for reprogramming studies. <i>Stem Cells and Development</i> , <b>2011</b> , 20, 1563-75	4.4	40
90	Precision genetic engineering in large mammals. <i>Trends in Biotechnology</i> , <b>2012</b> , 30, 386-93	15.1	37
89	Presente y futuro del ganado transg�nico. <i>OIE Revue Scientifique Et Technique</i> , <b>2005</b> , 24, 285-298	2.5	37
88	Non-viral reprogramming of fibroblasts into induced pluripotent stem cells by Sleeping Beauty and piggyBac transposons. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 450, 581-7	3.4	35
87	Induced pluripotent stem cells: Mechanisms, achievements and perspectives in farm animals. <i>World Journal of Stem Cells</i> , <b>2015</b> , 7, 315-28	5.6	33
86	Exposure to DNA is insufficient for in vitro transgenesis of live bovine sperm and embryos. <i>Reproduction</i> , <b>2013</b> , 145, 97-108	3.8	30
85	DNA methylation and mRNA expression profiles in bovine oocytes derived from prepubertal and adult donors. <i>Reproduction</i> , <b>2012</b> , 144, 319-30	3.8	29
84	Application of cDNA arrays to monitor mRNA profiles in single preimplantation mouse embryos. <i>BioTechniques</i> , <b>2002</b> , 33, 376-8, 380, 382-5	2.5	29
83	Efficient hematopoietic redifferentiation of induced pluripotent stem cells derived from primitive murine bone marrow cells. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 689-701	4.4	27
82	Increased apoptosis in bovine blastocysts exposed to high levels of IGF1 is not associated with downregulation of the IGF1 receptor. <i>Reproduction</i> , <b>2011</b> , 141, 91-103	3.8	27
81	One-step Multiplex Transgenesis via Sleeping Beauty Transposition in Cattle. <i>Scientific Reports</i> , <b>2016</b> , 6, 21953	4.9	26
80	Nerve-dependent induction of AChR epsilon-subunit gene expression in muscle is independent of state of differentiation. <i>Developmental Biology</i> , <b>1994</b> , 165, 527-36	3.1	26
79	Exogenous enzymes upgrade transgenesis and genetic engineering of farm animals. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 1907-29	10.3	25
78	Expression of genes involved in BMP and estrogen signaling and AMPK production can be important factors affecting total number of antral follicles in ewes. <i>Theriogenology</i> , <b>2017</b> , 91, 36-43	2.8	24
77	Impact of metal nanoparticles on germ cell viability and functionality. <i>Reproduction in Domestic Animals</i> , <b>2012</b> , 47 Suppl 4, 359-68	1.6	24

76	Cell cycle dependent expression of Plk1 in synchronized porcine fetal fibroblasts. <i>Molecular Reproduction and Development</i> , <b>2003</b> , 65, 245-53	2.6	24
75	Laminar expression of m1-, m3- and m4-muscarinic cholinergic receptor genes in the developing rat visual cortex using in situ hybridization histochemistry. Effect of monocular visual deprivation. <i>International Journal of Developmental Neuroscience</i> , <b>1993</b> , 11, 369-78	2.7	24
74	Clinical potential of human-induced pluripotent stem cells : Perspectives of induced pluripotent stem cells. <i>Cell Biology and Toxicology</i> , <b>2017</b> , 33, 99-112	7.4	23
73	Bioconjugated Gold Nanoparticles Penetrate Into Spermatozoa Depending on Plasma Membrane Status. <i>Journal of Biomedical Nanotechnology</i> , <b>2015</b> , 11, 1597-607	4	23
72	siRNA mediated knockdown of tissue factor expression in pigs for xenotransplantation. <i>American Journal of Transplantation</i> , <b>2015</b> , 15, 1407-14	8.7	22
71	King oyster mushroom production using various sources of agricultural wastes in Iran. <i>International Journal of Recycling of Organic Waste in Agriculture</i> , <b>2016</b> , 5, 17-24	3.1	22
70	A protocol for the cryoconservation of breeds by low-cost emergency cell banks - a pilot study. <i>Animal</i> , <b>2008</b> , 2, 1-8	3.1	22
69	Injection of ligand-free gold and silver nanoparticles into murine embryos does not impact pre-implantation development. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 677-88	3	21
68	Sampling techniques for oviductal and uterine luminal fluid in cattle. <i>Theriogenology</i> , <b>2010</b> , 73, 758-67	2.8	21
67	Species-specific telomere length differences between blastocyst cell compartments and ectopic telomere extension in early bovine embryos by human telomerase reverse transcriptase. <i>Biology of Reproduction</i> , <b>2011</b> , 84, 723-33	3.9	19
66	In vivo oocyte developmental competence is reduced in lean but not in obese superovulated dairy cows after intraovarian administration of IGF1. <i>Reproduction</i> , <b>2011</b> , 142, 41-52	3.8	19
65	Generation and characterization of pigs transgenic for human hemeoxygenase-1 (hHO-1). <i>Xenotransplantation</i> , <b>2010</b> , 17, 102-103	2.8	18
64	Production of viable pigs from fetal somatic stem cells. <i>Cloning and Stem Cells</i> , <b>2007</b> , 9, 364-73		18
63	Differential laminar expression of AMPA receptor genes in the developing rat visual cortex using in situ hybridization histochemistry. Effect of visual deprivation. <i>International Journal of Developmental Neuroscience</i> , <b>1993</b> , 11, 411-24	2.7	18
62	Application of DNA array technology to mammalian embryos. <i>Theriogenology</i> , <b>2007</b> , 68 Suppl 1, S165-77	2.8	17
61	In vivo oocyte IGF-1 priming increases inner cell mass proliferation of in vitro-formed bovine blastocysts. <i>Theriogenology</i> , <b>2012</b> , 78, 517-27	2.8	16
60	Genotype-independent transmission of transgenic fluorophore protein by boar spermatozoa. <i>PLoS ONE</i> , <b>2011</b> , 6, e27563	3.7	16
59	Health status of transgenic pigs expressing the human complement regulatory protein CD59. <i>Xenotransplantation</i> , <b>2006</b> , 13, 345-56	2.8	15

58	From fibroblasts and stem cells: implications for cell therapies and somatic cloning. <i>Reproduction, Fertility and Development</i> , <b>2005</b> , 17, 125-34	1.8	14
57	Estimation of genetic parameters for 13 female fertility indices in Holstein dairy cows. <i>Tropical Animal Health and Production</i> , <b>2011</b> , 43, 811-6	1.7	13
56	The role of protein phosphatase 2A catalytic subunit Calpha in embryogenesis: evidence from sequence analysis and localization studies. <i>Biological Chemistry</i> , <b>1999</b> , 380, 1117-20	4.5	13
55	Assessment of fetal cell chimerism in transgenic pig lines generated by Sleeping beauty transposition. <i>PLoS ONE</i> , <b>2014</b> , 9, e96673	3.7	12
54	Assessment of fecundity and germ line transmission in two transgenic pig lines produced by sleeping beauty transposition. <i>Genes</i> , <b>2012</b> , 3, 615-33	4.2	12
53	Transposon-based reprogramming to induced pluripotency. <i>Histology and Histopathology</i> , <b>2015</b> , 30, 1397-409	4.09	12
52	Cytoplasmic injection of murine zygotes with Sleeping Beauty transposon plasmids and minicircles results in the efficient generation of germline transgenic mice. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 178-84	5.6	12
51	Triplex-hybridizing bioconjugated gold nanoparticles for specific Y-chromosome sequence targeting of bull spermatozoa. <i>Analyst, The</i> , <b>2017</b> , 142, 2020-2028	5	11
50	Sex-Sorted Boar Sperm - An Update on Related Production Methods. <i>Reproduction in Domestic Animals</i> , <b>2015</b> , 50 Suppl 2, 56-60	1.6	11
49	Synergistic effect of fadrozole and insulin-like growth factor-I on female-to-male sex reversal and body weight of broiler chicks. <i>PLoS ONE</i> , <b>2014</b> , 9, e103570	3.7	11
48	Preferential loss of porcine chromosomes in reprogrammed interspecies cell hybrids. <i>Cellular Reprogramming</i> , <b>2010</b> , 12, 55-65	2.1	11
47	Differentiation of Induced Pluripotent Stem Cells to Lentoid Bodies Expressing a Lens Cell-Specific Fluorescent Reporter. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157570	3.7	11
46	Establishment of cell-based transposon-mediated transgenesis in cattle. <i>Theriogenology</i> , <b>2016</b> , 85, 1297-311.e210	3.81	10
45	Parent-of-origin dependent gene-specific knock down in mouse embryos. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 358, 727-32	3.4	10
44	Reproductive biotechnology in farm animals goes genomics.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , <b>2008</b> , 3,	3.2	10
43	Ectopic expression of human telomerase RNA component results in increased telomerase activity and elongated telomeres in bovine blastocysts. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 95	3.9	9
42	Systematic optimization of square-wave electroporation conditions for bovine primary fibroblasts. <i>BMC Molecular and Cell Biology</i> , <b>2020</b> , 21, 9	2.7	8
41	Rapid non-invasive genotyping of reporter transgenic mammals. <i>BioTechniques</i> , <b>2012</b> , 52,	2.5	8

40	Properties of Shaker-Homologous Potassium Channels Expressed in the Mammalian Brain. <i>Cellular Physiology and Biochemistry</i> , <b>1993</b> , 3, 250-269	3.9	8
39	Developing a puncture-free in ovo chicken transfection strategy based on bypassing albumen nucleases. <i>Theriogenology</i> , <b>2017</b> , 91, 90-97	2.8	7
38	The domesticated buffalo - An emerging model for experimental and therapeutic use of extraembryonic tissues. <i>Theriogenology</i> , <b>2020</b> , 151, 95-102	2.8	7
37	Identification and re-addressing of a transcriptionally permissive locus in the porcine genome. <i>Transgenic Research</i> , <b>2016</b> , 25, 63-70	3.3	6
36	High incidence of single nucleotide polymorphisms in the prion protein gene of native Brazilian Caracu cattle. <i>Journal of Animal Breeding and Genetics</i> , <b>2006</b> , 123, 326-30	2.9	6
35	Potential of transposon-mediated cellular reprogramming towards cell-based therapies. <i>World Journal of Stem Cells</i> , <b>2020</b> , 12, 527-544	5.6	6
34	A SNP in the 3' untranslated region of AMPK $\beta$ may associate with serum ketone body and milk production of Holstein dairy cows. <i>Gene</i> , <b>2015</b> , 574, 48-52	3.8	5
33	164 DEVELOPMENT OF MURINE EMBRYOS AFTER INJECTION OF UNCOATED GOLD AND SILVER NANOPARTICLES. <i>Reproduction, Fertility and Development</i> , <b>2010</b> , 22, 240	1.8	5
32	Transgenic Farm Animals: Current Status and Perspectives for Agriculture and Biomedicine. <i>Wissenschaftsethik Und Technikfolgenbeurteilung</i> , <b>2009</b> , 1-30	0.2	4
31	Strategies for the derivation of pluripotent cells from farm animals. <i>Reproduction in Domestic Animals</i> , <b>2010</b> , 45 Suppl 3, 25-31	1.6	4
30	Expression of Active Fluorophore Proteins in the Milk of Transgenic Pigs Bypassing the Secretory Pathway. <i>Scientific Reports</i> , <b>2016</b> , 6, 24464	4.9	4
29	Generation and Breeding of $\alpha$ -Transgenic Marmoset Monkeys: Cell Chimerism and Implications for Disease Modeling. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
28	In vivo evaluation of ovine sperm/embryo ability in mediating transgenic lamb. <i>Middle East Fertility Society Journal</i> , <b>2015</b> , 20, 295-296	1.4	3
27	Biomedical applications of ovarian transvaginal ultrasonography in cattle. <i>Animal Biotechnology</i> , <b>2014</b> , 25, 266-93	1.4	3
26	Somatic Cloning and Epigenetic Reprogramming in Mammals <b>2011</b> , 129-158		3
25	Production and characterization of pigs transgenic for human hemeoxygenase-I by somatic nuclear transfer. <i>Xenotransplantation</i> , <b>2008</b> , 15, 301-301	2.8	3
24	Transmission of porcine endogenous retroviruses (PERVs): Animal models and inhibition by RNA interference. <i>Xenotransplantation</i> , <b>2007</b> , 14, 372-373	2.8	3
23	Isolation of bovine cardiomyocytes for reprogramming studies based on nuclear transfer. <i>Cloning and Stem Cells</i> , <b>2006</b> , 8, 150-8		3

22	Applications of genome editing in farm animals <b>2020</b> , 131-149		3
21	Perspectives of pluripotent stem cells in livestock. <i>World Journal of Stem Cells</i> , <b>2021</b> , 13, 1-29	5.6	3
20	Simultaneous effects of IGF1 and Fadrozole on parthenogenesis and pluripotency markers in chicken embryo. <i>Theriogenology</i> , <b>2018</b> , 114, 317-323	2.8	2
19	Transposon-Based Reporter Marking Provides Functional Evidence for Intercellular Bridges in the Male Germline of Rabbits. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154489	3.7	2
18	Secretion of a recombinant protein without a signal peptide by the exocrine glands of transgenic rabbits. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187214	3.7	2
17	Transposon-Based Cellular Reprogramming to Induced Pluripotency <b>2016</b> , 1-7		1
16	Transgenic pigs with reduced PERV expression by RNA interference. <i>Xenotransplantation</i> , <b>2012</b> , 19, 22-22.8		1
15	Recent progress in the production of transgenic pigs. <i>Xenotransplantation</i> , <b>2012</b> , 19, 13-13	2.8	1
14	Delineating the placental maternal-fetal interface. <i>Molecular Reproduction and Development</i> , <b>2013</b> , 80, 959-959	2.6	1
13	Mendelian inheritance by eye. <i>Molecular Reproduction and Development</i> , <b>2012</b> , 79, 75	2.6	1
12	Episomal Expression of Minicircles and Conventional Plasmids in Mammalian Embryos <b>2013</b> , 189-202		1
11	Somatic Cloning and Epigenetic Reprogramming in Mammals <b>2008</b> , 148-167		1
10	Development of a transposon-based technology for transfection of day 0 chicken embryos. <i>Gene</i> , <b>2020</b> , 730, 144318	3.8	1
9	Generation of Murine Induced Pluripotent Stem Cells through Transposon-Mediated Reprogramming. <i>Methods in Molecular Biology</i> , <b>2021</b> , 1	1.4	1
8	A versatile bulk electrotransfection protocol for murine embryonic fibroblasts and iPS cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 13332	4.9	0
7	Cultivation and characterization of primordial germ cells from blue layer hybrids (Araucana crossbreeds) and generation of germline chimeric chickens. <i>Scientific Reports</i> , <b>2021</b> , 11, 12923	4.9	0
6	Zink finger nucleases and siRNAs: use in transgenic pig production for xenotransplantation. <i>Xenotransplantation</i> , <b>2013</b> , 20, 45-45	2.8	
5	Somatic Cloning and Epigenetic Reprogramming in Mammals <b>2013</b> , 101-124		



- 4 New transgenic pigs for xenotransplantation, part 1. *Xenotransplantation*, **2011**, 18, 64-64 2.8
- 3 Cell-based Systems as an Alternative to Animal Models. *Reproduction in Domestic Animals*, **2000**, 35, 253-254
- 2 Robust DNase activity of the ooplasm can act as a gametic transfection barrier in rainbow trout. *Theriogenology*, **2020**, 142, 62-66 2.8
- 1 Boosting the cellular potency of embryonic stem cells by spliceosome targeting. *Signal Transduction and Targeted Therapy*, **2021**, 6, 324 2.1