Wilfried A Kues

List of Publications by Year
in descending order

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135 papers	4,878 citations	71097 41 h-index	106340 65 g-index
138 all docs	138 docs citations	138 times ranked	4510 citing authors

#	Article	IF	Citations
1	Delayed embryonic lethality in mice lacking protein phosphatase 2A catalytic subunit CÂ. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12370-12375.	7.1	195
2	Characterization of a Shaw-related potassium channel family in rat brain.. EMBO Journal, 1992, 11, 2473-2486.	7.8	183
3	Telomere length is reset during early mammalian embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8034-8038.	7.1	178
4	Knockdown of porcine endogenous retrovirus (PERV) expression by PERVâ€specific shRNA in transgenic pigs. Xenotransplantation, 2008, 15, 36-45.	2.8	156
5	The contribution of farm animals to human health. Trends in Biotechnology, 2004, 22, 286-294.	9.3	154
6	Reprotoxicity of gold, silver, and goldâ€“silver alloy nanoparticles on mammalian gametes. Analyst, The, 2014, 139, 931-942.	3.5	149
7	Genome-wide expression profiling reveals distinct clusters of transcriptional regulation during bovine preimplantation development in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19768-19773.	7.1	144
8	Current state of laser synthesis of metal and alloy nanoparticles as ligand-free reference materials for nano-toxicological assays. Beilstein Journal of Nanotechnology, 2014, 5, 1523-1541.	2.8	130
9	Application of transgenesis in livestock for agriculture and biomedicine. Animal Reproduction Science, 2003, 79, 291-317.	1.5	129
10	Primary structure and functional expression of the alpha-, beta-, gamma-, delta- and e-subunits of the acetylcholine receptor from rat muscle. FEBS Journal, 1990, 194, 437-448.	0.2	108
11	Germline Transgenic Pigs by Sleeping Beauty Transposition in Porcine Zygotes and Targeted Integration in the Pig Genome. PLoS ONE, 2011, 6, e23573.	2.5	108
12	Transgenic farm animals: an update. Reproduction, Fertility and Development, 2007, 19, 762.	0.4	106
13	Heterogeneous Expression Patterns of Mammalian Potassium Channel Genes in Developing and Adult Rat Brain. European Journal of Neuroscience, 1992, 4, 1296-1308.	2.6	105
14	Isolation of Murine and Porcine Fetal Stem Cells from Somatic Tissue1. Biology of Reproduction, 2005, 72, 1020-1028.	2.7	91
15	Advances in farm animal transgenesis. Preventive Veterinary Medicine, 2011, 102, 146-156.	1.9	80
16	Distribution and expression of porcine endogenous retroviruses in multiâ€transgenic pigs generated for xenotransplantation. Xenotransplantation, 2009, 16, 64-73.	2.8	79
17	Epigenetic silencing and tissue independent expression of a novel tetracycline inducible system in doubleâ€transgenic pigs. FASEB Journal, 2006, 20, 1200-1202.	0.5	76
18	Derivation and Characterization ofSleeping BeautyTransposon-Mediated Porcine Induced Pluripotent Stem Cells. Stem Cells and Development, 2013, 22, 124-135.	2.1	76

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19	Transgenic livestock: premises and promises. Animal Reproduction Science, 2000, 60-61, 277-293.	1.5	73
20	Derivation and Characterization of Bovine Induced Pluripotent Stem Cells by Transposon-Mediated Reprogramming. Cellular Reprogramming, 2015, 17, 131-140.	0.9	70
21	Differential Expression Patterns of Five Acetylcholine Receptor Subunit Genes in Rat Muscle During Development. European Journal of Neuroscience, 1995, 7, 1376-1385.	2.6	68
22	Germline transgenesis in pigs by cytoplasmic microinjection of Sleeping Beauty transposons. Nature Protocols, 2014, 9, 810-827.	12.0	67
23	Influence of gold, silver and goldâ€“silver alloy nanoparticles on germ cell function and embryo development. Beilstein Journal of Nanotechnology, 2015, 6, 651-664.	2.8	67
24	Bovine ICM derived cells express theOct4 ortholog. Molecular Reproduction and Development, 2005, 72, 182-190.	2.0	65
25	Cytoplasmic injection of circular plasmids allows targeted expression in mammalian embryos. BioTechniques, 2009, 47, 959-968.	1.8	64
26	Different mechanisms regulate muscle-specific AChR gamma- and epsilon-subunit gene expression.. EMBO Journal, 1991, 10, 2957-2964.	7.8	61
27	Inhibition of porcine endogenous retroviruses (PERVs) in primary porcine cells by RNA interference using lentiviral vectors. Archives of Virology, 2007, 152, 629-634.	2.1	60
28	Expression of genes involved in BMP and estrogen signaling and AMPK production can be important factors affecting total number of antral follicles in ewes. Theriogenology, 2017, 91, 36-43.	2.1	60
29	Duration of In Vitro Maturation of Recipient Oocytes Affects Blastocyst Development of Cloned Porcine Embryos. Cloning and Stem Cells, 2005, 7, 35-44.	2.6	59
30	CYTOMEGALOVIRUS EARLY PROMOTER INDUCED EXPRESSION OF hCD59 IN PORCINE ORGANS PROVIDES PROTECTION AGAINST HYPERACUTE REJECTION1. Transplantation, 2001, 72, 1898-1906.	1.0	58
31	Nonendosomal cellular uptake of ligandâ€free, positively charged gold nanoparticles. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 439-446.	1.5	58
32	Sex selection of sperm in farm animals: status report and developmental prospects. Reproduction, 2013, 145, R15-R30.	2.6	58
33	Germline transgenesis in rodents by pronuclear microinjection of Sleeping Beauty transposons. Nature Protocols, 2014, 9, 773-793.	12.0	57
34	Current Progress of Genetically Engineered Pig Models for Biomedical Research. BioResearch Open Access, 2014, 3, 255-264.	2.6	56
35	Gold nanoparticles interfere with sperm functionality by membrane adsorption without penetration. Nanotoxicology, 2014, 8, 118-127.	3.0	56
36	Toxicity of Gold Nanoparticles on Somatic and Reproductive Cells. Advances in Experimental Medicine and Biology, 2012, 733, 125-133.	1.6	54

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37	Local neurotrophic repression of gene transcripts encoding fetal AChRs at rat neuromuscular synapses.. Journal of Cell Biology, 1995, 130, 949-957.	5.2	51
38	Oct4-Enhanced Green Fluorescent Protein Transgenic Pigs: A New Large Animal Model for Reprogramming Studies. Stem Cells and Development, 2011, 20, 1563-1575.	2.1	49
39	Pluripotent Stem Cells and Reprogrammed Cells in Farm Animals. Microscopy and Microanalysis, 2011, 17, 474-497.	0.4	48
40	Cell Cycle Synchronization of Porcine Fetal Fibroblasts by Serum Deprivation Initiates a Nonconventional Form of Apoptosis. Cloning and Stem Cells, 2002, 4, 231-243.	2.6	46
41	Presente y futuro del ganado transgÃ©nico. OIE Revue Scientifique Et Technique, 2005, 24, 285-298.	1.2	42
42	Precision genetic engineering in large mammals. Trends in Biotechnology, 2012, 30, 386-393.	9.3	41
43	Induced pluripotent stem cells: Mechanisms, achievements and perspectives in farm animals. World Journal of Stem Cells, 2015, 7, 315.	2.8	40
44	Non-viral reprogramming of fibroblasts into induced pluripotent stem cells by Sleeping Beauty and piggyBac transposons. Biochemical and Biophysical Research Communications, 2014, 450, 581-587.	2.1	39
45	King oyster mushroom production using various sources of agricultural wastes in Iran. International Journal of Recycling of Organic Waste in Agriculture, 2016, 5, 17-24.	2.0	38
46	One-step Multiplex Transgenesis via Sleeping Beauty Transposition in Cattle. Scientific Reports, 2016, 6, 21953.	3.3	35
47	Increased apoptosis in bovine blastocysts exposed to high levels of IGF1 is not associated with downregulation of the IGF1 receptor. Reproduction, 2011, 141, 91-103.	2.6	34
48	Exposure to DNA is insufficient for in vitro transgenesis of live bovine sperm and embryos. Reproduction, 2013, 145, 97-108.	2.6	34
49	Application of cDNA Arrays to Monitor mRNA Profiles in Single Preimplantation Mouse Embryos. BioTechniques, 2002, 33, 376-385.	1.8	32
50	DNA methylation and mRNA expression profiles in bovine oocytes derived from prepubertal and adult donors. Reproduction, 2012, 144, 319-330.	2.6	32
51	siRNA Mediated Knockdown of Tissue Factor Expression in Pigs for Xenotransplantation. American Journal of Transplantation, 2015, 15, 1407-1414.	4.7	32
52	Cell cycle dependent expression of Plk1 in synchronized porcine fetal fibroblasts. Molecular Reproduction and Development, 2003, 65, 245-253.	2.0	31
53	Exogenous enzymes upgrade transgenesis and genetic engineering of farm animals. Cellular and Molecular Life Sciences, 2015, 72, 1907-1929.	5.4	31
54	Bioconjugated Gold Nanoparticles Penetrate Into Spermatozoa Depending on Plasma Membrane Status. Journal of Biomedical Nanotechnology, 2015, 11, 1597-1607.	1.1	31

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55	Clinical potential of human-induced pluripotent stem cells. Cell Biology and Toxicology, 2017, 33, 99-112.	5.3	31
56	Impact of Metal Nanoparticles on Germ Cell Viability and Functionality. Reproduction in Domestic Animals, 2012, 47, 359-368.	1.4	29
57	Nerve-Dependent Induction of AChR Ïµ-Subunit Gene Expression in Muscle Is Independent of State of Differentiation. Developmental Biology, 1994, 165, 527-536.	2.0	28
58	Efficient Hematopoietic Redifferentiation of Induced Pluripotent Stem Cells Derived from Primitive Murine Bone Marrow Cells. Stem Cells and Development, 2012, 21, 689-701.	2.1	28
59	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. International Journal of Developmental Neuroscience, 1993, 11, 369-378.	1.6	27
60	A protocol for the cryoconservation of breeds by low-cost emergency cell banks â€“ a pilot study. Animal, 2008, 2, 1-8.	3.3	27
61	Systematic optimization of square-wave electroporation conditions for bovine primary fibroblasts. BMC Molecular and Cell Biology, 2020, 21, 9.	2.0	25
62	Species-Specific Telomere Length Differences Between Blastocyst Cell Compartments and Ectopic Telomere Extension in Early Bovine Embryos by Human Telomerase Reverse Transcriptase. Biology of Reproduction, 2011, 84, 723-733.	2.7	24
63	Injection of ligand-free gold and silver nanoparticles into murine embryos does not impact pre-implantation development. Beilstein Journal of Nanotechnology, 2014, 5, 677-688.	2.8	24
64	In vivo oocyte developmental competence is reduced in lean but not in obese superovulated dairy cows after intraovarian administration of IGF1. Reproduction, 2011, 142, 41-52.	2.6	23
65	In vivo oocyte IGF-1 priming increases inner cell mass proliferation of in vitro-formed bovine blastocysts. Theriogenology, 2012, 78, 517-527.	2.1	23
66	Generation and characterization of pigs transgenic for human hemeoxygenaseâ€1 (hHOâ€1). Xenotransplantation, 2010, 17, 102-103.	2.8	22
67	Sampling techniques for oviductal and uterine luminal fluid in cattle. Theriogenology, 2010, 73, 758-767.	2.1	22
68	Differential laminar expression of AMPA receptor genes in the developing rat visual cortex using in situ hybridization histochemistry. Effect of visual deprivation. International Journal of Developmental Neuroscience, 1993, 11, 411-424.	1.6	19
69	Production of Viable Pigs from Fetal Somatic Stem Cells. Cloning and Stem Cells, 2007, 9, 364-373.	2.6	19
70	Estimation of genetic parameters for 13 female fertility indices in Holstein dairy cows. Tropical Animal Health and Production, 2011, 43, 811-816.	1.4	19
71	Application of DNA array technology to mammalian embryos. Theriogenology, 2007, 68, S165-S177.	2.1	18
72	From fibroblasts and stem cells: implications for cell therapies and somatic cloning. Reproduction, Fertility and Development, 2005, 17, 125.	0.4	17

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73	Health status of transgenic pigs expressing the human complement regulatory protein CD59. Xenotransplantation, 2006, 13, 345-356.	2.8	16
74	Preferential Loss of Porcine Chromosomes in Reprogrammed Interspecies Cell Hybrids. Cellular Reprogramming, 2010, 12, 55-65.	0.9	16
75	Genotype-Independent Transmission of Transgenic Fluorophore Protein by Boar Spermatozoa. PLoS ONE, 2011, 6, e27563.	2.5	16
76	Cytoplasmic injection of murine zygotes with Sleeping Beauty transposon plasmids and minicircles results in the efficient generation of germline transgenic mice. Biotechnology Journal, 2016, 11, 178-184.	3.5	16
77	Synergistic Effect of Fadrozole and Insulin-Like Growth Factor-I on Female-To-Male Sex Reversal and Body Weight of Broiler Chicks. PLoS ONE, 2014, 9, e103570.	2.5	15
78	Sexâ€Sorted Boar Sperm â€“ An Update on Related Production Methods. Reproduction in Domestic Animals, 2015, 50, 56-60.	1.4	15
79	Perspectives of pluripotent stem cells in livestock. World Journal of Stem Cells, 2021, 13, 1-29.	2.8	15
80	Transposon-based reprogramming to induced pluripotency. Histology and Histopathology, 2015, 30, 1397-409.	0.7	15
81	Assessment of Fetal Cell Chimerism in Transgenic Pig Lines Generated by Sleeping Beauty Transposition. PLoS ONE, 2014, 9, e96673.	2.5	14
82	Potential of transposon-mediated cellular reprogramming towards cell-based therapies. World Journal of Stem Cells, 2020, 12, 527-544.	2.8	14
83	The Role of Protein Phosphatase 2A Catalytic Subunit CÎ± in Embryogenesis: Evidence from Sequence Analysis and Localization Studies. Biological Chemistry, 1999, 380, 1117-1120.	2.5	13
84	Parent-of-origin dependent gene-specific knock down in mouse embryos. Biochemical and Biophysical Research Communications, 2007, 358, 727-732.	2.1	13
85	Assessment of Fecundity and Germ Line Transmission in Two Transgenic Pig Lines Produced by Sleeping Beauty Transposition. Genes, 2012, 3, 615-633.	2.4	13
86	Differentiation of Induced Pluripotent Stem Cells to Lentoid Bodies Expressing a Lens Cell-Specific Fluorescent Reporter. PLoS ONE, 2016, 11, e0157570.	2.5	13
87	Establishment of cell-based transposon-mediated transgenesis in cattle. Theriogenology, 2016, 85, 1297-1311.e2.	2.1	13
88	Triplex-hybridizing bioconjugated gold nanoparticles for specific Y-chromosome sequence targeting of bull spermatozoa. Analyst, The, 2017, 142, 2020-2028.	3.5	13
89	Generation and Breeding of EGFP-Transgenic Marmoset Monkeys: Cell Chimerism and Implications for Disease Modeling. Cells, 2021, 10, 505.	4.1	12
90	Ectopic Expression of Human Telomerase RNA Component Results in Increased Telomerase Activity and Elongated Telomeres in Bovine Blastocysts1. Biology of Reproduction, 2012, 87, 95.	2.7	11

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91	Reproductive biotechnology in farm animals goes genomics.. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , 1-18.	1.0	11
92	Properties of Shaker-Homologous Potassium Channels Expressed in the Mammalian Brain. Cellular Physiology and Biochemistry, 1993, 3, 250-269.	1.6	9
93	Rapid non-invasive genotyping of reporter transgenic mammals. BioTechniques, 2012, 52, 1-4.	1.8	9
94	Transgenic Farm Animals: Current Status and Perspectives for Agriculture and Biomedicine. Wissenschaftsethik Und Technikfolgenbeurteilung, 2009, , 1-30.	1.0	8
95	Developing a puncture-free in ovo chicken transfection strategy based on bypassing albumen nucleases. Theriogenology, 2017, 91, 90-97.	2.1	8
96	High incidence of single nucleotide polymorphisms in the prion protein gene of native Brazilian Caracu cattle. Journal of Animal Breeding and Genetics, 2006, 123, 326-330.	2.0	7
97	A SNP in the 3â€²-untranslated region of AMPKÎ³1 may associate with serum ketone body and milk production of Holstein dairy cows. Gene, 2015, 574, 48-52.	2.2	7
98	Identification and re-addressing of a transcriptionally permissive locus in the porcine genome. Transgenic Research, 2016, 25, 63-70.	2.4	7
99	The domesticated buffalo - An emerging model for experimental and therapeutic use of extraembryonic tissues. Theriogenology, 2020, 151, 95-102.	2.1	7
100	Cultivation and characterization of primordial germ cells from blue layer hybrids (Araucana) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Tc	3.3	7
101	164 DEVELOPMENT OF MURINE EMBRYOS AFTER INJECTION OF UNCOATED GOLD AND SILVER NANOPARTICLES. Reproduction, Fertility and Development, 2010, 22, 240.	0.4	6
102	Somatic Cloning and Epigenetic Reprogramming in Mammals. , 2011, , 129-158.		5
103	Applications of genome editing in farm animals. , 2020, , 131-149.		5
104	Transposon-Based Reporter Marking Provides Functional Evidence for Intercellular Bridges in the Male Germline of Rabbits. PLoS ONE, 2016, 11, e0154489.	2.5	5
105	Strategies for the Derivation of Pluripotent Cells from Farm Animals. Reproduction in Domestic Animals, 2010, 45, 25-31.	1.4	4
106	Biomedical Applications of Ovarian Transvaginal Ultrasonography in Cattle. Animal Biotechnology, 2014, 25, 266-293.	1.5	4
107	Expression of Active Fluorophore Proteins in the Milk of Transgenic Pigs Bypassing the Secretory Pathway. Scientific Reports, 2016, 6, 24464.	3.3	4
108	A versatile bulk electrotransfection protocol for murine embryonic fibroblasts and iPS cells. Scientific Reports, 2020, 10, 13332.	3.3	4

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109	Applications of Genome Editing Tools in Stem Cells Towards Regenerative Medicine: An Update. Current Stem Cell Research and Therapy, 2022, 17, 267-279.	1.3	4
110	Isolation of Bovine Cardiomyocytes for Reprogramming Studies Based on Nuclear Transfer. Cloning and Stem Cells, 2006, 8, 150-158.	2.6	3
111	Transmission of porcine endogenous retroviruses (PERVs): Animal models and inhibition by RNA interference. Xenotransplantation, 2007, 14, 372-373.	2.8	3
112	Production and characterization of pigs transgenic for human hemeoxygenase-I by somatic nuclear transfer. Xenotransplantation, 2008, 15, 301-301.	2.8	3
113	In vivo evaluation of ovine sperm/embryo ability in mediating transgenic lamb. Middle East Fertility Society Journal, 2015, 20, 295-296.	1.5	3
114	Secretion of a recombinant protein without a signal peptide by the exocrine glands of transgenic rabbits. PLoS ONE, 2017, 12, e0187214.	2.5	3
115	Simultaneous effects of IGF1 and Fadrozole on parthenogenesis and pluripotency markers in chicken embryo. Theriogenology, 2018, 114, 317-323.	2.1	2
116	Development of a transposon-based technology for transfection of day 0 chicken embryos. Gene, 2020, 730, 144318.	2.2	2
117	Generation of Murine Induced Pluripotent Stem Cells through Transposon-Mediated Reprogramming. Methods in Molecular Biology, 2021, , 791-809.	0.9	2
118	67 GENERATION OF PIGS TRANSGENIC FOR hCD59/DAF AND HUMAN THROMBOMODULIN BY SOMATIC NUCLEAR TRANSFER. Reproduction, Fertility and Development, 2006, 18, 142.	0.4	2
119	An Electrochemical Protocol for CRISPR-Mediated Gene-Editing of Sheep Embryonic Fibroblast Cells. Cells Tissues Organs, 2023, 212, 176-184.	2.3	2
120	Somatic Cloning and Epigenetic Reprogramming in Mammals. , 2008, , 148-167.		1
121	Correction for Kues et al., Genome-wide expression profiling reveals distinct clusters of transcriptional regulation during bovine preimplantation development in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1679-1679.	7.1	1
122	New transgenic pigs for xenotransplantation, part 1. Xenotransplantation, 2011, 18, 64-64.	2.8	1
123	Mendelian inheritance by eye. Molecular Reproduction and Development, 2012, 79, 75-75.	2.0	1
124	Transgenic pigs with reduced PERV expression by RNA interference. Xenotransplantation, 2012, 19, 22-22.	2.8	1
125	Recent progress in the production of transgenic pigs. Xenotransplantation, 2012, 19, 13-13.	2.8	1
126	Delineating the placental maternalâ€“fetal interface. Molecular Reproduction and Development, 2013, 80, 959-959.	2.0	1

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127	Cell-based Systems as an Alternative to Animal Models. Reproduction in Domestic Animals, 2000, 35, 253-254.	1.4	0
128	In vivo oocyte developmental competence is reduced in lean but not in obese superovulated dairy cows after intraovarian administration of IGF1. Reproduction, 2011, 142, 487.	2.6	0
129	Zink finger nucleases and siRNAs: use in transgenic pig production for xenotransplantation. Xenotransplantation, 2013, 20, 45-45.	2.8	0
130	Somatic Cloning and Epigenetic Reprogramming in Mammals. , 2013, , 101-124.		0
131	Robust DNase activity of the ooplasm can act as a gametic transfection barrier in rainbow trout. Theriogenology, 2020, 142, 62-66.	2.1	0
132	Boosting the cellular potency of embryonic stem cells by spliceosome targeting. Signal Transduction and Targeted Therapy, 2021, 6, 324.	17.1	0
133	66EFFECTS OF CONTACT INHIBITION INTERVALS V. SERUM DEPRIVATION ON DEVELOPMENT OF PORCINE NUCLEAR TRANSFER DERIVED EMBRYOS. Reproduction, Fertility and Development, 2004, 16, 155.	0.4	0
134	161 MODULATION OF TELOMERASE ACTIVITY IN BOVINE EMBRYOS USING CYTOPLASMATIC PLASMID INJECTION. Reproduction, Fertility and Development, 2010, 22, 239.	0.4	0
135	164 EPIGENETIC ANALYSIS OF GENOMIC DNA IN PREPUBERAL AND ADULT BOVINE OOCYTES. Reproduction, Fertility and Development, 2011, 23, 184.	0.4	0