Carl A Pinkert

List of Publications by Citations

104 papers	5,696 citations	31 h-index	75 g-index
112 ext. papers	6,030 ext. citations	9.2 avg, IF	4.77 L-index

#	Paper	IF	Citations
104	The c-myc oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice. *Nature*, **1985**, 318, 533-8	50.4	1553
103	Molecular pathogenesis of hepatocellular carcinoma in hepatitis B virus transgenic mice. *Cell*, **1989**, 59, 1145-56	56.2	614
102	The E mu-myc transgenic mouse. A model for high-incidence spontaneous lymphoma and leukemia of early B cells. *Journal of Experimental Medicine*, **1988**, 167, 353-71	16.6	355
101	Pancreatic neoplasia induced by ras expression in acinar cells of transgenic mice. *Cell*, **1987**, 48, 1023-34	56.2	254
100	Histopathology associated with elevated levels of growth hormone and insulin-like growth factor I in transgenic mice. *Endocrinology*, **1989**, 124, 40-8	4.8	214
99	A strain-specific modifier on mouse chromosome 4 controls the methylation of independent transgene loci. *Cell*, **1991**, 65, 939-47	56.2	212
98	Targeted disruption of mouse long-chain acyl-CoA dehydrogenase gene reveals crucial roles for fatty acid oxidation. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 15592-7	11.5	185
97	Transgenic mice with mu and kappa genes encoding antiphosphorylcholine antibodies. *Journal of Experimental Medicine*, **1986**, 164, 627-41	16.6	139
96	Transgenic mice selectively lacking MHC class II (I-E) antigen expression on B cells: an in vivo approach to investigate Ia gene function. *Cell*, **1987**, 51, 175-87	56.2	133
95	Functional respiratory chain analyses in murid xenomitochondrial cybrids expose coevolutionary constraints of cytochrome b and nuclear subunits of complex III. *Molecular Biology and Evolution*, **2003**, 20, 1117-24	8.3	105
94	Immortalized differentiated hepatocyte lines derived from transgenic mice harboring SV40 T-antigen genes. *Experimental Cell Research*, **1988**, 175, 354-62	4.2	94
93	Membrane cofactor protein (MCP; CD46) expression in transgenic mice. *Clinical and Experimental Immunology*, **2001**, 124, 180-9	6.2	80
92	Production of functional human hemoglobin in transgenic swine. *Nature Biotechnology*, **1992**, 10, 557-9	44.5	79
91	D-galactose effectiveness in modeling aging and therapeutic antioxidant treatment in mice. *Rejuvenation Research*, **2010**, 13, 729-35	2.6	77
90	Muscle growth after postdevelopmental myostatin gene knockout. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E985-91	6	77
89	Myofibrillar protein synthesis in myostatin-deficient mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 290, E409-15	6	72
88	Production of homoplasmic xenomitochondrial mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 1685-90	11.5	66

87	Effects of sequence and structure on the hypermutability of immunoglobulin genes. *Immunity*, **2002**, 16, 123-34	32.3	66
86	In vivo cardioprotection by S-nitroso-2-mercaptopropionyl glycine. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 960-8	5.8	63
85	Progress on gene transfer in farm animals. *Veterinary Immunology and Immunopathology*, **1987**, 17, 303-12		62
84	Microinjection of cytoplasm or mitochondria derived from somatic cells affects parthenogenetic development of murine oocytes. *Biology of Reproduction*, **2005**, 72, 1397-404	3.9	61
83	Central insulin resistance and synaptic dysfunction in intracerebroventricular-streptozotocin injected rodents. *Neurobiology of Aging*, **2012**, 33, 430.e5-18	5.6	58
82	NDUFS4: creation of a mouse model mimicking a Complex I disorder. *Mitochondrion*, **2009**, 9, 204-10	4.9	49
81	Isoniazid-induced cell death is precipitated by underlying mitochondrial complex I dysfunction in mouse hepatocytes. *Free Radical Biology and Medicine*, **2013**, 65, 584-594	7.8	48
80	Isolation and microinjection of somatic cell-derived mitochondria and germline heteroplasmy in transmitochondrial mice. *Transgenic Research*, **1999**, 8, 119-23	3.3	48
79	Intraarticular induction of interleukin-1beta expression in the adult mouse, with resultant temporomandibular joint pathologic changes, dysfunction, and pain. *Arthritis and Rheumatism*, **2006**, 54, 1184-97		47
78	Simian virus 40 (SV40)-transgenic mice that develop tumors are specifically tolerant to SV40 T antigen. *Journal of Experimental Medicine*, **1987**, 165, 417-27	16.6	46
77	Production of transmitochondrial mice. *Methods*, **2002**, 26, 348-57	4.6	43
76	Epigenetic Treatment of Neurodegenerative Disorders: Alzheimer and Parkinson Diseases. *Drug Development Research*, **2016**, 77, 109-23	5.1	40
75	In vitro fertilization in mice: Strain differences in response to superovulation protocols and effect of cumulus cell removal. *Theriogenology*, **1997**, 47, 1245-52	2.8	38
74	Cybrid models of mtDNA disease and transmission, from cells to mice. *Current Topics in Developmental Biology*, **2007**, 77, 157-83	5.3	34
73	Microinjection of serum-starved mitochondria derived from somatic cells affects parthenogenetic development of bovine and murine oocytes. *Mitochondrion*, **2010**, 10, 137-42	4.9	31
72	Identification of transgenic mice by PCR analysis of saliva. *Nature Biotechnology*, **1996**, 14, 1146-8	44.5	31
71	Foundation Review: Transgenic animals and their impact on the drug discovery industry. *Drug Discovery Today*, **2005**, 10, 757-67	8.8	30
70	Animal models of human mitochondrial DNA mutations. *Biochimica Et Biophysica Acta - General Subjects*, **2012**, 1820, 601-7	4	27

69	Xenomitochondrial mice: investigation into mitochondrial compensatory mechanisms. *Mitochondrion*, **2011**, 11, 33-9	4.9	27
68	Epigenetic Treatment of Neuropsychiatric Disorders: Autism and Schizophrenia. *Drug Development Research*, **2016**, 77, 53-72	5.1	25
67	Mitochondrial activity in response to serum starvation in bovine (Bos taurus) cell culture. *Cloning and Stem Cells*, **2002**, 4, 223-9		24
66	Expression of AID transgene is regulated in activated B cells but not in resting B cells and kidney. *Molecular Immunology*, **2008**, 45, 1883-92	4.3	22
65	Development and initial characterization of xenomitochondrial mice. *Journal of Bioenergetics and Biomembranes*, **2004**, 36, 421-7	3.7	21
64	Optimization of embryo transfer protocols for mice. *Theriogenology*, **1996**, 46, 1267-76	2.8	21
63	Mouse models of mitochondrial complex I dysfunction. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 34-40	5.6	20
62	Protection by an antioxidant of rotenone-induced neuromotor decline, reactive oxygen species generation and cellular stress in mouse brain. *Pharmacology Biochemistry and Behavior*, **2012**, 101, 487-92	3.9	18
61	Functional correction of short-chain acyl-CoA dehydrogenase deficiency in transgenic mice: implications for gene therapy of human mitochondrial enzyme deficiencies. *Human Molecular Genetics*, **1997**, 6, 1451-5	5.6	18
60	Tumorigenesis in transgenic mice by a nuclear transport-defective SV40 large T-antigen gene. *Virology*, **1987**, 160, 169-75	3.6	18
59	Expression and knockdown of primordial germ cell genes, vasa, nanos and dead end in common carp (Cyprinus carpio) embryos for transgenic sterilization and reduced sexual maturity. *Aquaculture*, **2014**, 420-421, S72-S84	4.4	16
58	Nuclear expression of a mitochondrial DNA gene: mitochondrial targeting of allotopically expressed mutant ATP6 in transgenic mice. *Journal of Biomedicine and Biotechnology*, **2012**, 2012, 541245		16
57	Epigenetic Treatment of Persistent Viral Infections. *Drug Development Research*, **2017**, 78, 24-36	5.1	15
56	Generation of transmitochondrial mice: development of xenomitochondrial mice to model neurodegenerative diseases. *Methods in Cell Biology*, **2007**, 80, 549-69	1.8	15
55	Transgenic mouse with human mutant p53 expression in the prostate epithelium. *Prostate*, **2004**, 61, 26-34	4.2	15
54	Mitochondrial Haplotypes Influence Metabolic Traits in Porcine Transmitochondrial Cybrids. *Scientific Reports*, **2015**, 5, 13118	4.9	14
53	Liver, renal and subcutaneous histopathology in PEPCK-bGH transgenic pigs. *Transgenic Research*, **1994**, 3, 401-5	3.3	14
52	Characterization of transgenic livestock production. *Domestic Animal Endocrinology*, **1990**, 7, 1-18	2.3	14

51	Transgenic animal technology: alternatives in genotyping and phenotyping. *Comparative Medicine*, **2003**, 53, 126-39	1.6	14
50	The mitochondrial genome sequence of Mus terricolor: comparison with Mus musculus domesticus and implications for xenomitochondrial mouse modeling. *Gene*, **2008**, 418, 27-33	3.8	13
49	Influence of intergeneric/interspecies mitochondrial injection; parthenogenetic development of bovine oocytes after injection of mitochondria derived from somatic cells. *Journal of Reproduction and Development*, **2012**, 58, 323-9	2.1	12
48	Epigenetic Treatment of Neurodegenerative Ophthalmic Disorders: An Eye Toward the Future. *BioResearch Open Access*, **2017**, 6, 169-181	2.4	11
47	Klotho Pathways, Myelination Disorders, Neurodegenerative Diseases, and Epigenetic Drugs. *BioResearch Open Access*, **2020**, 9, 94-105	2.4	10
46	Bioprotective carnitinoids: lipoic acid, butyrate, and mitochondria-targeting to treat radiation injury: mitochondrial drugs come of age. *Drug Development Research*, **2015**, 76, 167-75	5.1	10
45	Developmental fate of mitochondria microinjected into murine zygotes. *Mitochondrion*, **2003**, 3, 39-46	4.9	10
44	Elevated PC responsive B cells and anti-PC antibody production in transgenic mice harboring anti-PC immunoglobulin genes. *Veterinary Immunology and Immunopathology*, **1989**, 23, 321-32	2	10
43	DNA Microinjection and Transgenic Animal Production **1994**, 15-68		10
42	Mouse embryo yield and viability after euthanasia by CO2 inhalation or cervical dislocation. *Comparative Medicine*, **2003**, 53, 510-3	1.6	10
41	Introduction to Transgenic Animal Technology **2002**, 3-12		9
40	Mitochondrial DNA sequence and phylogenetic evaluation of geographically disparate Sus scrofa breeds. *Animal Biotechnology*, **2015**, 26, 17-28	1.4	8
39	Antioxidant-mediated reversal of oxidative damage in mouse modeling of complex I inhibition. *Drug Development Research*, **2015**, 76, 72-81	5.1	8
38	Mitochondrial biology in reproduction. *Reproductive Medicine and Biology*, **2011**, 10, 251-258	4.1	7
37	Pathogenic mitochondrial dysfunction and metabolic abnormalities. *Biochemical Pharmacology*, **2021**, 193, 114809	6	7
36	A New Approach to Treating Neurodegenerative Otologic Disorders. *BioResearch Open Access*, **2018**, 7, 107-115	2.4	7
35	Mitochondrially-imported RNA in drug discovery. *Drug Development Research*, **2015**, 76, 61-71	5.1	6
34	Xenomitochondrial embryonic stem cells and mice: modeling human mitochondrial biology and disease. *Gene Therapy and Regulation*, **2004**, 2, 283-300		6

33	Transgenic mice expressing a chimaeric anti-E. coli immunoglobulin alpha heavy chain gene. *Transgenic Research*, **1994**, 3, 167-75	3.3	6
32	Superovulation and egg transfer in Yucatan miniature swine. *Animal Reproduction Science*, **1993**, 31, 155-163	2.6	6
31	DNA Microinjection and Transgenic Animal Production **2002**, 15-70		6
30	Production of Transgenic Swine by DNA Microinjection **2002**, 307-336		5
29	Effects of transgenic sterilization constructs and their repressor compounds on hatch, developmental rate and early survival of electroporated channel catfish embryos and fry. *Transgenic Research*, **2015**, 24, 333-52	3.3	4
28	Introduction to Transgenic Animal Technology **2014**, 3-13		4
27	DNA Microinjection, Embryo Handling, and Germplasm Preservation **2014**, 17-70		3
26	Comparative proteomic analysis of liver mitochondrial proteins derived from cloned adult pigs reconstructed with Meishan pig fibroblast cells and European pig enucleated oocytes. *Journal of Reproduction and Development*, **2012**, 58, 248-53	2.1	3
25	Dynamic characteristics of the mitochondrial genome in SCNT pigs. *Biological Chemistry*, **2019**, 400, 613-623	4.5	3
24	Gene Editing **2014**, 229-248		2
23	Modifying Mitochondrial Genetics **2014**, 639-656		2
22	Genetically Engineered Animals in Product Discovery and Development **2013**, 405-460		2
21	Transgenic Animals: Mitochondrial Genome Modification **2011**, 1044-1046		2
20	The C(H)1 and transmembrane domains of mu in the context of a gamma2b transgene do not suffice to promote B cell maturation. *International Immunology*, **1999**, 11, 1663-71	4.9	2
19	Production of Transgenic Swine **1994**, 315-338		2
18	Epigenetic treatment of dermatologic disorders. *Drug Development Research*, **2019**, 80, 702-713	5.1	1
17	Analysis of Transgene Expression **2014**, 543-564		1
16	PCR Optimization for Detection of Transgene Integration **2014**, 533-541		1

15	Animal Modeling. *Oxidative Stress and Disease*, **2005**, 559-580		1
14	PCR Optimization for Detection of Transgene Integration **2002**, 475-484		1
13	Genetic Engineering of Animals. *Handbook Series for Mechanical Engineering*, **2003**,		1
12	Allotopic expression of ATP6 in the mouse as a transgenic model of mitochondrial disease. *Methods in Molecular Biology*, **2015**, 1265, 255-69	1.4	1
11	Toward Mitochondrial Medicine **2018**, 305-313		
10	Alternative Methods for Transgenesis in Domestic Animal Species **2014**, 399-428		
9	CHAPTER 38:D-Galactose, Dietary Sugars and Modeling Neurological Aging. *Food and Nutritional Components in Focus*, **2012**, 668-685		
8	Transgenic Animals: Secreted Products **2011**, 1047-1050		
7	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response. *PLoS ONE*, **2020**, 15, e0239804	3.7	
6	Cybrids in the Study of Animal Mitochondrial Genetics and Pathology. *Oxidative Stress and Disease*, **2005**, 539-558		
5	Allotopic Expression of ATP6 in Mouse as a Transgenic Model of Mitochondrial Disease. *Methods in Molecular Biology*, **2021**, 2277, 1-13	1.4	
4	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response **2020**, 15, e0239804		
3	Nuclear response to divergent mitochondrial DNA genotypes modulates the interferon immune response **2020**, 15, e0239804		
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