James M Wilson

List of Publications by Citations

574 papers	52,873 citations	123 h-index	207 g-index
640 ext. papers	57,429 ext. citations	9.3 avg, IF	7.34 L-index

#	Paper	IF	Citations
574	Cellular immunity to viral antigens limits E1-deleted adenoviruses for gene therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 4407-11	11.5	1418
573	Novel adeno-associated viruses from rhesus monkeys as vectors for human gene therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 11854-9	11.5	1221
572	Fatal systemic inflammatory response syndrome in a ornithine transcarbamylase deficient patient following adenoviral gene transfer. *Molecular Genetics and Metabolism*, **2003**, 80, 148-58	3.7	1115
571	Human beta-defensin-1 is a salt-sensitive antibiotic in lung that is inactivated in cystic fibrosis. *Cell*, **1997**, 88, 553-60	56.2	936
570	Clades of Adeno-associated viruses are widely disseminated in human tissues. *Journal of Virology*, **2004**, 78, 6381-8	6.6	749
569	Recombinant adeno-associated virus for muscle directed gene therapy. *Nature Medicine*, **1997**, 3, 306-12	50.5	594
568	Immune responses to adenovirus and adeno-associated virus in humans. *Gene Therapy*, **1999**, 6, 1574-83	4	593
567	The peptide antibiotic LL-37/hCAP-18 is expressed in epithelia of the human lung where it has broad antimicrobial activity at the airway surface. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 9541-6	11.5	590
566	Submucosal glands are the predominant site of CFTR expression in the human bronchus. *Nature Genetics*, **1992**, 2, 240-8	36.3	590
565	MHC class I-restricted cytotoxic T lymphocytes to viral antigens destroy hepatocytes in mice infected with E1-deleted recombinant adenoviruses. *Immunity*, **1994**, 1, 433-42	32.3	576
564	Human gene therapy for RPE65 isomerase deficiency activates the retinoid cycle of vision but with slow rod kinetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 15112-7	11.5	575
563	A model system for in vivo gene transfer into the central nervous system using an adenoviral vector. *Nature Genetics*, **1993**, 3, 219-23	36.3	559
562	Ablation of E2A in recombinant adenoviruses improves transgene persistence and decreases inflammatory response in mouse liver. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 6196-200	11.5	551
561	Correction of the cystic fibrosis defect in vitro by retrovirus-mediated gene transfer. *Cell*, **1990**, 62, 1227-33	56.2	528
560	A controlled study of adenoviral-vector-mediated gene transfer in the nasal epithelium of patients with cystic fibrosis. *New England Journal of Medicine*, **1995**, 333, 823-31	59.2	520
559	Successful ex vivo gene therapy directed to liver in a patient with familial hypercholesterolaemia. *Nature Genetics*, **1994**, 6, 335-41	36.3	515
558	Worldwide epidemiology of neutralizing antibodies to adeno-associated viruses. *Journal of Infectious Diseases*, **2009**, 199, 381-90	7	502

557	Inactivation of E2a in recombinant adenoviruses improves the prospect for gene therapy in cystic fibrosis. *Nature Genetics*, **1994**, 7, 362-9	36.3	444
556	A pilot study of ex vivo gene therapy for homozygous familial hypercholesterolaemia. *Nature Medicine*, **1995**, 1, 1148-54	50.5	440
555	Stable gene transfer and expression of human blood coagulation factor IX after intramuscular injection of recombinant adeno-associated virus. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 5804-9	11.5	431
554	Gene therapy vectors based on adeno-associated virus type 1. *Journal of Virology*, **1999**, 73, 3994-4003	6.6	425
553	New recombinant serotypes of AAV vectors. *Current Gene Therapy*, **2005**, 5, 285-97	4.3	410
552	Adenoviruses as gene-delivery vehicles. *New England Journal of Medicine*, **1996**, 334, 1185-7	59.2	406
551	Gene therapy: adenovirus vectors. *Current Opinion in Genetics and Development*, **1993**, 3, 499-503	4.9	377
550	A dual AAV system enables the Cas9-mediated correction of a metabolic liver disease in newborn mice. *Nature Biotechnology*, **2016**, 34, 334-8	44.5	360
549	CD40 ligand-dependent T cell activation: requirement of B7-CD28 signaling through CD40. *Science*, **1996**, 273, 1862-4	33.3	358
548	Transduction of dendritic cells by DNA viral vectors directs the immune response to transgene products in muscle fibers. *Journal of Virology*, **1998**, 72, 4212-23	6.6	355
547	Acute cytokine response to systemic adenoviral vectors in mice is mediated by dendritic cells and macrophages. *Molecular Therapy*, **2001**, 3, 697-707	11.7	344
546	Inefficient gene transfer by adenovirus vector to cystic fibrosis airway epithelia of mice and humans. *Nature*, **1994**, 371, 802-6	50.4	342
545	Severe Toxicity in Nonhuman Primates and Piglets Following High-Dose Intravenous Administration of an Adeno-Associated Virus Vector Expressing Human SMN. *Human Gene Therapy*, **2018**, 29, 285-298	4.8	321
544	Cathelicidins--a family of multifunctional antimicrobial peptides. *Cellular and Molecular Life Sciences* , **2003**, 60, 711-20	10.3	321
543	Chronic suppression of heart-failure progression by a pseudophosphorylated mutant of phospholamban via in vivo cardiac rAAV gene delivery. *Nature Medicine*, **2002**, 8, 864-71	50.5	311
542	Adenovirus-mediated transfer of the CFTR gene to lung of nonhuman primates: toxicity study. *Human Gene Therapy*, **1993**, 4, 771-80	4.8	311
541	Activation of innate immunity in nonhuman primates following intraportal administration of adenoviral vectors. *Molecular Therapy*, **2001**, 3, 708-22	11.7	304
540	The common variant of cystic fibrosis transmembrane conductance regulator is recognized by hsp70 and degraded in a pre-Golgi nonlysosomal compartment. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 9480-4	11.5	303

539	Implantation of vascular grafts lined with genetically modified endothelial cells. *Science*, **1989**, 244, 1344-6	33.3	303
538	Adenovirus-mediated herpes simplex virus thymidine kinase/ganciclovir gene therapy in patients with localized malignancy: results of a phase I clinical trial in malignant mesothelioma. *Human Gene Therapy*, **1998**, 9, 1083-92	4.8	301
537	A pilot study of in vivo liver-directed gene transfer with an adenoviral vector in partial ornithine transcarbamylase deficiency. *Human Gene Therapy*, **2002**, 13, 163-75	4.8	300
536	Regulated delivery of therapeutic proteins after in vivo somatic cell gene transfer. *Science*, **1999**, 283, 88-91	33.3	290
535	Exchange of surface proteins impacts on viral vector cellular specificity and transduction characteristics: the retina as a model. *Human Molecular Genetics*, **2001**, 10, 3075-81	5.6	287
534	Direct gene transfer of human CFTR into human bronchial epithelia of xenografts with E1-deleted adenoviruses. *Nature Genetics*, **1993**, 4, 27-34	36.3	287
533	Sequestration of adenoviral vector by Kupffer cells leads to a nonlinear dose response of transduction in liver. *Molecular Therapy*, **2001**, 3, 28-35	11.7	282
532	Natural killer T cell ligand alpha-galactosylceramide enhances protective immunity induced by malaria vaccines. *Journal of Experimental Medicine*, **2002**, 195, 617-24	16.6	278
531	Repeated nebulisation of non-viral CFTR gene therapy in patients with cystic fibrosis: a randomised, double-blind, placebo-controlled, phase 2b trial. *Lancet Respiratory Medicine,the*, **2015**, 3, 684-691	35.1	267
530	Adeno-associated viruses undergo substantial evolution in primates during natural infections. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6081-6	11.5	260
529	Filovirus-pseudotyped lentiviral vector can efficiently and stably transduce airway epithelia in vivo. *Nature Biotechnology*, **2001**, 19, 225-30	44.5	260
528	Sustained transgene expression despite T lymphocyte responses in a clinical trial of rAAV1-AAT gene therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16363-8	11.5	259
527	Isolation of highly infectious and pure adeno-associated virus type 2 vectors with a single-step gravity-flow column. *Human Gene Therapy*, **2001**, 12, 71-6	4.8	254
526	Phase 2 clinical trial of a recombinant adeno-associated viral vector expressing α1-antitrypsin: interim results. *Human Gene Therapy*, **2011**, 22, 1239-47	4.8	253
525	Recombinant adenovirus deleted of all viral genes for gene therapy of cystic fibrosis. *Virology*, **1996** , 217, 11-22	3.6	251
524	Augmentation of innate host defense by expression of a cathelicidin antimicrobial peptide. *Infection and Immunity*, **1999**, 67, 6084-9	3.7	247
523	Comparative analysis of adeno-associated viral vector serotypes 1, 2, 5, 7, and 8 in mouse brain. *Human Gene Therapy*, **2007**, 18, 195-206	4.8	237
522	Upregulation of class I major histocompatibility complex antigens by interferon gamma is necessary for T-cell-mediated elimination of recombinant adenovirus-infected hepatocytes in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 7257-61	11.5	232

521	Rapid, simple, and versatile manufacturing of recombinant adeno-associated viral vectors at scale. *Human Gene Therapy*, **2010**, 21, 1259-71	4.8	231
520	Recombinant IL-12 prevents formation of blocking IgA antibodies to recombinant adenovirus and allows repeated gene therapy to mouse lung. *Nature Medicine*, **1995**, 1, 890-3	50.5	229
519	Long-term pharmacologically regulated expression of erythropoietin in primates following AAV-mediated gene transfer. *Blood*, **2005**, 105, 1424-30	2.2	225
518	Replication-defective vector based on a chimpanzee adenovirus. *Journal of Virology*, **2001**, 75, 11603-13	6.6	225
517	Adeno-associated virus (AAV) serotype 9 provides global cardiac gene transfer superior to AAV1, AAV6, AAV7, and AAV8 in the mouse and rat. *Human Gene Therapy*, **2008**, 19, 1359-68	4.8	218
516	A replication-defective human adenovirus recombinant serves as a highly efficacious vaccine carrier. *Virology*, **1996**, 219, 220-7	3.6	218
515	Stable transgene expression in rod photoreceptors after recombinant adeno-associated virus-mediated gene transfer to monkey retina. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 9920-5	11.5	211
514	HIV-1 suppression and durable control by combining single broadly neutralizing antibodies and antiretroviral drugs in humanized mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16538-43	11.5	208
513	beta-Defensin 1 contributes to pulmonary innate immunity in mice. *Infection and Immunity*, **2002**, 70, 3068-72	3.7	207
512	"Stealth" adenoviruses blunt cell-mediated and humoral immune responses against the virus and allow for significant gene expression upon readministration in the lung. *Journal of Virology*, **2001**, 75, 4792-801	6.6	206
511	Prolonged transgene expression in cotton rat lung with recombinant adenoviruses defective in E2a. *Human Gene Therapy*, **1994**, 5, 1217-29	4.8	202
510	Adenovirus-mediated transfer of the CFTR gene to lung of nonhuman primates: biological efficacy study. *Human Gene Therapy*, **1993**, 4, 759-69	4.8	200
509	The Neurotropic Properties of AAV-PHP.B Are Limited to C57BL/6J Mice. *Molecular Therapy*, **2018**, 26, 664-668	11.7	199
508	Adeno-associated virus antibody profiles in newborns, children, and adolescents. *Vaccine Journal*, **2011**, 18, 1586-8		197
507	Lessons learned from the gene therapy trial for ornithine transcarbamylase deficiency. *Molecular Genetics and Metabolism*, **2009**, 96, 151-7	3.7	194
506	A simian replication-defective adenoviral recombinant vaccine to HIV-1 gag. *Journal of Immunology*, **2003**, 170, 1416-22	5.3	187
505	Hybrid vectors based on adeno-associated virus serotypes 2 and 5 for muscle-directed gene transfer. *Journal of Virology*, **2001**, 75, 6199-203	6.6	186
504	Novel adeno-associated virus serotypes efficiently transduce murine photoreceptors. *Journal of Virology*, **2007**, 81, 11372-80	6.6	185

503	Impact of preexisting and induced humoral and cellular immune responses in an adenovirus-based gene therapy phase I clinical trial for localized mesothelioma. *Human Gene Therapy*, **1998**, 9, 2121-33	4.8	185
502	Stable restoration of the sarcoglycan complex in dystrophic muscle perfused with histamine and a recombinant adeno-associated viral vector. *Nature Medicine*, **1999**, 5, 439-43	50.5	185
501	Targeted transduction patterns in the mouse brain by lentivirus vectors pseudotyped with VSV, Ebola, Mokola, LCMV, or MuLV envelope proteins. *Molecular Therapy*, **2002**, 5, 528-37	11.7	181
500	Expression of the cystic fibrosis gene in adult human lung. *Journal of Clinical Investigation*, **1994**, 93, 737-49	15.9	177
499	Heparin binding directs activation of T cells against adeno-associated virus serotype 2 capsid. *Nature Medicine*, **2006**, 12, 967-71	50.5	174
498	Toll-like receptor 4 mediates innate immune responses to Haemophilus influenzae infection in mouse lung. *Journal of Immunology*, **2002**, 168, 810-5	5.3	173
497	Novel, chimpanzee serotype 68-based adenoviral vaccine carrier for induction of antibodies to a transgene product. *Journal of Virology*, **2002**, 76, 2667-75	6.6	170
496	High-titer adeno-associated viral vectors from a Rep/Cap cell line and hybrid shuttle virus. *Human Gene Therapy*, **1998**, 9, 2353-62	4.8	169
495	Total correction of hemophilia A mice with canine FVIII using an AAV 8 serotype. *Blood*, **2004**, 103, 1253-60	11.2	168
494	Hepatic regulatory T cells and Kupffer cells are crucial mediators of systemic T cell tolerance to antigens targeting murine liver. *Hepatology*, **2009**, 50, 612-21	11.2	163
493	Long-term regulated expression of growth hormone in mice after intramuscular gene transfer. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 8657-62	11.5	162
492	Humoral immunity to adeno-associated virus type 2 vectors following administration to murine and nonhuman primate muscle. *Journal of Virology*, **2000**, 74, 2420-5	6.6	159
491	Human airway epithelial cells sense Pseudomonas aeruginosa infection via recognition of flagellin by Toll-like receptor 5. *Infection and Immunity*, **2005**, 73, 7151-60	3.7	158
490	The low density lipoprotein receptor is not required for normal catabolism of Lp(a) in humans. *Journal of Clinical Investigation*, **1995**, 95, 1403-8	15.9	157
489	Amelioration of collagen-induced arthritis by CD95 (Apo-1/Fas)-ligand gene transfer. *Journal of Clinical Investigation*, **1997**, 100, 1951-7	15.9	157
488	Novel AAV serotypes for improved ocular gene transfer. *Journal of Gene Medicine*, **2008**, 10, 375-82	3.5	154
487	Bacterial phosphorylcholine decreases susceptibility to the antimicrobial peptide LL-37/hCAP18 expressed in the upper respiratory tract. *Infection and Immunity*, **2000**, 68, 1664-71	3.7	153
486	Purification of recombinant adeno-associated virus vectors by column chromatography and its performance in vivo. *Human Gene Therapy*, **2000**, 11, 2079-91	4.8	152

485	Effective treatment of familial hypercholesterolaemia in the mouse model using adenovirus-mediated transfer of the VLDL receptor gene. *Nature Genetics*, **1996**, 13, 54-62	36.3	152
484	Efficacy and safety of adeno-associated viral vectors based on serotype 8 and 9 vs. lentiviral vectors for hemophilia B gene therapy. *Journal of Thrombosis and Haemostasis*, **2007**, 5, 16-24	15.4	151
483	Sustained correction of disease in naive and AAV2-pretreated hemophilia B dogs: AAV2/8-mediated, liver-directed gene therapy. *Blood*, **2005**, 105, 3079-86	2.2	151
482	The innate immune system in cystic fibrosis lung disease. *Journal of Clinical Investigation*, **1999**, 103, 303-7	15.9	151
481	Dosage thresholds for AAV2 and AAV8 photoreceptor gene therapy in monkey. *Science Translational Medicine*, **2011**, 3, 88ra54	17.5	150
480	Adenoviral-mediated gene transfer to rabbit synovium in vivo. *Journal of Clinical Investigation*, **1993**, 92, 1085-92	15.9	150
479	Cyclophosphamide diminishes inflammation and prolongs transgene expression following delivery of adenoviral vectors to mouse liver and lung. *Human Gene Therapy*, **1996**, 7, 1555-66	4.8	149
478	Mouse beta-defensin 1 is a salt-sensitive antimicrobial peptide present in epithelia of the lung and urogenital tract. *Infection and Immunity*, **1998**, 66, 1225-32	3.7	148
477	Mouse beta-defensin 3 is an inducible antimicrobial peptide expressed in the epithelia of multiple organs. *Infection and Immunity*, **1999**, 67, 3542-7	3.7	148
476	PEGylation of E1-deleted adenovirus vectors allows significant gene expression on readministration to liver. *Human Gene Therapy*, **2002**, 13, 1887-900	4.8	146
475	Expression of alpha v beta 5 integrin is necessary for efficient adenovirus-mediated gene transfer in the human airway. *Journal of Virology*, **1995**, 69, 5951-8	6.6	142
474	Transfer of a cathelicidin peptide antibiotic gene restores bacterial killing in a cystic fibrosis xenograft model. *Journal of Clinical Investigation*, **1999**, 103, 1113-7	15.9	141
473	Humoral Immune Response to AAV. *Frontiers in Immunology*, **2013**, 4, 341	8.4	140
472	Correction of the genetic defect in hepatocytes from the Watanabe heritable hyperlipidemic rabbit. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 4421-5	11.5	140
471	Persistent transgene product in retina, optic nerve and brain after intraocular injection of rAAV. *Vision Research*, **1999**, 39, 2545-53	2.1	137
470	In vivo expression of full-length human dystrophin from adenoviral vectors deleted of all viral genes. *Human Gene Therapy*, **1996**, 7, 1907-14	4.8	137
469	Adeno-associated virus as a vector for liver-directed gene therapy. *Journal of Virology*, **1998**, 72, 10222-6	6.6	137
468	Inhibition of retinal neovascularization by intraocular viral-mediated delivery of anti-angiogenic agents. *Molecular Therapy*, **2002**, 6, 490-4	11.7	136

467	Tailoring the AAV vector capsid for gene therapy. *Gene Therapy*, **2009**, 16, 311-9	4	135
466	Enhanced survival of the LINCL mouse following CLN2 gene transfer using the rh.10 rhesus macaque-derived adeno-associated virus vector. *Molecular Therapy*, **2007**, 15, 481-91	11.7	134
465	Expanded repertoire of AAV vector serotypes mediate unique patterns of transduction in mouse brain. *Molecular Therapy*, **2008**, 16, 1710-8	11.7	133
464	Biology of AAV serotype vectors in liver-directed gene transfer to nonhuman primates. *Molecular Therapy*, **2006**, 13, 77-87	11.7	132
463	Retrovirus-mediated transduction of adult hepatocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 3014-8	11.5	131
462	Prolonged metabolic correction in adult ornithine transcarbamylase-deficient mice with adenoviral vectors. *Journal of Biological Chemistry*, **1996**, 271, 3639-46	5.4	130
461	Impact of pre-existing immunity on gene transfer to nonhuman primate liver with adeno-associated virus 8 vectors. *Human Gene Therapy*, **2011**, 22, 1389-401	4.8	129
460	Lessons learned from the clinical development and market authorization of Glybera. *Human Gene Therapy Clinical Development*, **2013**, 24, 55-64	3.2	128
459	An approach for treating the hepatobiliary disease of cystic fibrosis by somatic gene transfer. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 4601-5	11.5	127
458	Lancet Commission: Stem cells and regenerative medicine. *Lancet, The*, **2018**, 391, 883-910	40	124
457	Transduction efficiencies of novel AAV vectors in mouse airway epithelium in vivo and human ciliated airway epithelium in vitro. *Molecular Therapy*, **2009**, 17, 294-301	11.7	123
456	PEGylation of a vesicular stomatitis virus G pseudotyped lentivirus vector prevents inactivation in serum. *Journal of Virology*, **2004**, 78, 912-21	6.6	123
455	Erythropoietin gene therapy leads to autoimmune anemia in macaques. *Blood*, **2004**, 103, 3300-2	2.2	123
454	Muscle-specific promoters may be necessary for adeno-associated virus-mediated gene transfer in the treatment of muscular dystrophies. *Human Gene Therapy*, **2001**, 12, 205-15	4.8	123
453	Development of a rapid method for the PEGylation of adenoviruses with enhanced transduction and improved stability under harsh storage conditions. *Human Gene Therapy*, **2000**, 11, 1713-22	4.8	123
452	CpG-depleted adeno-associated virus vectors evade immune detection. *Journal of Clinical Investigation*, **2013**, 123, 2994-3001	15.9	123
451	Human cone photoreceptor dependence on RPE65 isomerase. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 15123-8	11.5	122
450	A phase I study of adenovirus-mediated transfer of the human cystic fibrosis transmembrane conductance regulator gene to a lung segment of individuals with cystic fibrosis. *Human Gene Therapy*, **1999**, 10, 2973-85	4.8	122

449	The AAV9 receptor and its modification to improve in vivo lung gene transfer in mice. *Journal of Clinical Investigation*, **2011**, 121, 2427-35	15.9	122
448	Development of formulations that enhance physical stability of viral vectors for gene therapy. *Gene Therapy*, **2001**, 8, 1281-90	4	121
447	Longitudinal evaluation and assessment of cardiovascular disease in patients with homozygous familial hypercholesterolemia. *American Journal of Cardiology*, **2008**, 102, 1438-43	3	120
446	Blunting of immune responses to adenoviral vectors in mouse liver and lung with CTLA4Ig. *Gene Therapy*, **1998**, 5, 309-19	4	119
445	Adeno-associated virus serotype 9 vectors transduce murine alveolar and nasal epithelia and can be readministered. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12993-8	11.5	119
444	Oral vaccination of mice with adenoviral vectors is not impaired by preexisting immunity to the vaccine carrier. *Journal of Virology*, **2003**, 77, 10780-9	6.6	119
443	Immunology of gene therapy with adenoviral vectors in mouse skeletal muscle. *Human Molecular Genetics*, **1996**, 5, 1703-12	5.6	119
442	Hypoxanthine-guanine phosphoribosyltransferase deficiency. The molecular basis of the clinical syndromes. *New England Journal of Medicine*, **1983**, 309, 900-10	59.2	119
441	Sustained production of beta-glucuronidase from localized sites after AAV vector gene transfer results in widespread distribution of enzyme and reversal of lysosomal storage lesions in a large volume of brain in mucopolysaccharidosis VII mice. *Experimental Neurology*, **1999**, 160, 17-27	5.7	117
440	Resolution of primary severe acute respiratory syndrome-associated coronavirus infection requires Stat1. *Journal of Virology*, **2004**, 78, 11416-21	6.6	116
439	Fas ligand--a double-edged sword. *Nature Biotechnology*, **1998**, 16, 1011-2	44.5	115
438	Macaque model for severe acute respiratory syndrome. *Journal of Virology*, **2004**, 78, 11401-4	6.6	114
437	Successful adenovirus-mediated gene transfer in an in vivo model of human malignant mesothelioma. *Annals of Thoracic Surgery*, **1994**, 57, 1395-401	2.7	114
436	In vivo somatic cell gene transfer of an engineered Noggin mutein prevents BMP4-induced heterotopic ossification. *Journal of Bone and Joint Surgery - Series A*, **2003**, 85, 2332-42	5.6	114
435	Expression of human factor IX in rat capillary endothelial cells: toward somatic gene therapy for hemophilia B. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 8101-5	11.5	113
434	Long-term follow-up of patients with malignant pleural mesothelioma receiving high-dose adenovirus herpes simplex thymidine kinase/ganciclovir suicide gene therapy. *Clinical Cancer Research*, **2005**, 11, 7444-53	12.9	112
433	Effect of blood collection technique in mice on clinical pathology parameters. *Human Gene Therapy*, **2002**, 13, 155-61	4.8	112
432	Human Treg responses allow sustained recombinant adeno-associated virus-mediated transgene expression. *Journal of Clinical Investigation*, **2013**, 123, 5310-8	15.9	112

431	AAV2 vector harboring a liver-restricted promoter facilitates sustained expression of therapeutic levels of alpha-galactosidase A and the induction of immune tolerance in Fabry mice. *Molecular Therapy*, **2004**, 9, 231-40	11.7	111
430	Long-term inducible gene expression in the eye via adeno-associated virus gene transfer in nonhuman primates. *Human Gene Therapy*, **2005**, 16, 178-86	4.8	110
429	Interferon-beta gene therapy inhibits tumor formation and causes regression of established tumors in immune-deficient mice. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 14411-6	11.5	110
428	Isolation and characterization of adenoviruses persistently shed from the gastrointestinal tract of non-human primates. *PLoS Pathogens*, **2009**, 5, e1000503	7.6	109
427	Chimpanzee adenovirus vaccine protects against Zaire Ebola virus. *Virology*, **2006**, 346, 394-401	3.6	108
426	Autoimmune anemia in macaques following erythropoietin gene therapy. *Blood*, **2004**, 103, 3303-4	2.2	107
425	Gene transfer into the liver of nonhuman primates with E1-deleted recombinant adenoviral vectors: safety of readministration. *Human Gene Therapy*, **1999**, 10, 2515-26	4.8	107
424	Temporary amelioration of hyperlipidemia in low density lipoprotein receptor-deficient rabbits transplanted with genetically modified hepatocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 8437-41	11.5	106
423	Universal protection against influenza infection by a multidomain antibody to influenza hemagglutinin. *Science*, **2018**, 362, 598-602	33.3	106
422	Analysis of tumors arising in male B6C3F1 mice with and without AAV vector delivery to liver. *Molecular Therapy*, **2006**, 14, 34-44	11.7	104
421	Cytotoxic T-lymphocyte target proteins and their major histocompatibility complex class I restriction in response to adenovirus vectors delivered to mouse liver. *Journal of Virology*, **1998**, 72, 2945-54	6.6	104
420	High levels of persistent expression of alpha1-antitrypsin mediated by the nonhuman primate serotype rh.10 adeno-associated virus despite preexisting immunity to common human adeno-associated viruses. *Molecular Therapy*, **2006**, 13, 67-76	11.7	103
419	Induction of CD8+ T cells to an HIV-1 antigen through a prime boost regimen with heterologous E1-deleted adenoviral vaccine carriers. *Journal of Immunology*, **2003**, 171, 6774-9	5.3	103
418	Perceived quality of life in schizophrenia: relationships to sleep quality. *Quality of Life Research*, **2004**, 13, 783-91	3.7	103
417	Lentiviral vectors for gene therapy of cystic fibrosis. *Human Gene Therapy*, **1997**, 8, 2261-8	4.8	102
416	The pleiotropic effects of natural AAV infections on liver-directed gene transfer in macaques. *Molecular Therapy*, **2010**, 18, 126-34	11.7	101
415	Treatment of advanced CNS malignancies with the recombinant adenovirus H5.010RSVTK: a phase I trial. *Human Gene Therapy*, **1996**, 7, 1465-82	4.8	101
414	Systematic evaluation of AAV vectors for liver directed gene transfer in murine models. *Molecular Therapy*, **2010**, 18, 118-25	11.7	99

413	The complex and evolving story of T cell activation to AAV vector-encoded transgene products. *Molecular Therapy*, **2011**, 19, 16-27	11.7	99
412	Gene therapy for cystic fibrosis using E1-deleted adenovirus: a phase I trial in the nasal cavity. The University of North Carolina at Chapel Hill. *Human Gene Therapy*, **1994**, 5, 615-39	4.8	99
411	CD40 ligand-dependent activation of cytotoxic T lymphocytes by adeno-associated virus vectors in vivo: role of immature dendritic cells. *Journal of Virology*, **2000**, 74, 8003-10	6.6	98
410	Route of administration determines induction of T-cell-independent humoral responses to adeno-associated virus vectors. *Molecular Therapy*, **2000**, 1, 323-9	11.7	98
409	Noninvasive gene transfer to the lung for systemic delivery of therapeutic proteins. *Journal of Clinical Investigation*, **2002**, 110, 499-504	15.9	97
408	Physiological modulation of CFTR activity by AMP-activated protein kinase in polarized T84 cells. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C1297-308	5.4	95
407	Gene transfer into skeletal muscle using novel AAV serotypes. *Journal of Gene Medicine*, **2005**, 7, 442-51	3.5	94
406	Cross-presentation of adeno-associated virus serotype 2 capsids activates cytotoxic T cells but does not render hepatocytes effective cytolytic targets. *Human Gene Therapy*, **2007**, 18, 185-94	4.8	93
405	Lentiviral vectors pseudotyped with minimal filovirus envelopes increased gene transfer in murine lung. *Molecular Therapy*, **2003**, 8, 777-89	11.7	93
404	Genotype spectrum of ornithine transcarbamylase deficiency: correlation with the clinical and biochemical phenotype. *American Journal of Medical Genetics Part A*, **2000**, 93, 313-9		93
403	Evaluation of toxicity from high-dose systemic administration of recombinant adenovirus vector in vector-naive and pre-immunized mice. *Gene Therapy*, **2005**, 12, 427-36	4	91
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