

Mark A Kay

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

195
papers

30,706
citations

85
h-index

175
g-index

250
ext. papers

33,741
ext. citations

14.2
avg, IF

6.89
L-index

#	Paper	IF	Citations
195	Progress and problems with the use of viral vectors for gene therapy. <i>Nature Reviews Genetics</i> , 2003 , 4, 346-58	30.1	1911
194	Successful transduction of liver in hemophilia by AAV-Factor IX and limitations imposed by the host immune response. <i>Nature Medicine</i> , 2006 , 12, 342-7	50.5	1525
193	Fatality in mice due to oversaturation of cellular microRNA/short hairpin RNA pathways. <i>Nature</i> , 2006 , 441, 537-41	50.4	1358
192	Adenovirus-associated virus vector-mediated gene transfer in hemophilia B. <i>New England Journal of Medicine</i> , 2011 , 365, 2357-65	59.2	1271
191	Viral vectors for gene therapy: the art of turning infectious agents into vehicles of therapeutics. <i>Nature Medicine</i> , 2001 , 7, 33-40	50.5	1066
190	RNA interference in adult mice. <i>Nature</i> , 2002 , 418, 38-9	50.4	924
189	Evidence for gene transfer and expression of factor IX in haemophilia B patients treated with an AAV vector. <i>Nature Genetics</i> , 2000 , 24, 257-61	36.3	850
188	Long-term safety and efficacy of factor IX gene therapy in hemophilia B. <i>New England Journal of Medicine</i> , 2014 , 371, 1994-2004	59.2	810
187	AAV-mediated factor IX gene transfer to skeletal muscle in patients with severe hemophilia B. <i>Blood</i> , 2003 , 101, 2963-72	2.2	607
186	Robust expansion of human hepatocytes in Fah ^{-/-} /Rag2 ^{-/-} /Il2rg ^{-/-} mice. <i>Nature Biotechnology</i> , 2007 , 25, 903-10	44.5	599
185	A nonviral minicircle vector for deriving human iPS cells. <i>Nature Methods</i> , 2010 , 7, 197-9	21.6	590
184	Sarcoma derived from cultured mesenchymal stem cells. <i>Stem Cells</i> , 2007 , 25, 371-9	5.8	544
183	Inhibition of hepatitis B virus in mice by RNA interference. <i>Nature Biotechnology</i> , 2003 , 21, 639-44	44.5	539
182	Persistent and therapeutic concentrations of human factor IX in mice after hepatic gene transfer of recombinant AAV vectors. <i>Nature Genetics</i> , 1997 , 16, 270-6	36.3	538
181	State-of-the-art gene-based therapies: the road ahead. <i>Nature Reviews Genetics</i> , 2011 , 12, 316-28	30.1	515
180	Human tRNA-derived small RNAs in the global regulation of RNA silencing. <i>Rna</i> , 2010 , 16, 673-95	5.8	473
179	Robust systemic transduction with AAV9 vectors in mice: efficient global cardiac gene transfer superior to that of AAV8. <i>Molecular Therapy</i> , 2006 , 14, 45-53	11.7	465

178	Somatic integration and long-term transgene expression in normal and haemophilic mice using a DNA transposon system. <i>Nature Genetics</i> , 2000 , 25, 35-41	36.3	446
177	In vitro and in vivo gene therapy vector evolution via multispecies interbreeding and retargeting of adeno-associated viruses. <i>Journal of Virology</i> , 2008 , 82, 5887-911	6.6	423
176	In vivo activity of nuclease-resistant siRNAs. <i>Rna</i> , 2004 , 10, 766-71	5.8	421
175	Minicircle DNA vectors devoid of bacterial DNA result in persistent and high-level transgene expression in vivo. <i>Molecular Therapy</i> , 2003 , 8, 495-500	11.7	394
174	Correction of hemophilia B in canine and murine models using recombinant adeno-associated viral vectors. <i>Nature Medicine</i> , 1999 , 5, 64-70	50.5	373
173	Extrachromosomal recombinant adeno-associated virus vector genomes are primarily responsible for stable liver transduction in vivo. <i>Journal of Virology</i> , 2001 , 75, 6969-76	6.6	358
172	The 37/67-kilodalton laminin receptor is a receptor for adeno-associated virus serotypes 8, 2, 3, and 9. <i>Journal of Virology</i> , 2006 , 80, 9831-6	6.6	310
171	Biological basis for restriction of microRNA targets to the 3' untranslated region in mammalian mRNAs. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 144-50	17.6	308
170	Fate tracing of mature hepatocytes in mouse liver homeostasis and regeneration. <i>Journal of Clinical Investigation</i> , 2011 , 121, 4850-60	15.9	303
169	AAV serotype 2 vectors preferentially integrate into active genes in mice. <i>Nature Genetics</i> , 2003 , 34, 297-302	36.3	303
168	Rapid uncoating of vector genomes is the key to efficient liver transduction with pseudotyped adeno-associated virus vectors. <i>Journal of Virology</i> , 2004 , 78, 3110-22	6.6	301
167	Assessment of recombinant adenoviral vectors for hepatic gene therapy. <i>Human Gene Therapy</i> , 1993 , 4, 403-9	4.8	295
166	Efficient construction of a recombinant adenovirus vector by an improved in vitro ligation method. <i>Human Gene Therapy</i> , 1998 , 9, 2577-83	4.8	289
165	In vivo gene therapy of hemophilia B: sustained partial correction in factor IX-deficient dogs. <i>Science</i> , 1993 , 262, 117-9	33.3	288
164	Selection and evaluation of clinically relevant AAV variants in a xenograft liver model. <i>Nature</i> , 2014 , 506, 382-6	50.4	279
163	Helper virus-free, optically controllable, and two-plasmid-based production of adeno-associated virus vectors of serotypes 1 to 6. <i>Molecular Therapy</i> , 2003 , 7, 839-50	11.7	272
162	High-resolution genome-wide mapping of transposon integration in mammals. <i>Molecular and Cellular Biology</i> , 2005 , 25, 2085-94	4.8	267
161	Efficient lentiviral transduction of liver requires cell cycling in vivo. <i>Nature Genetics</i> , 2000 , 24, 49-52	36.3	262

160	Unrestricted hepatocyte transduction with adeno-associated virus serotype 8 vectors in mice. <i>Journal of Virology</i> , 2005 , 79, 214-24	6.6	258
159	Long-term hepatic adenovirus-mediated gene expression in mice following CTLA4Ig administration. <i>Nature Genetics</i> , 1995 , 11, 191-7	36.3	257
158	A robust system for production of minicircle DNA vectors. <i>Nature Biotechnology</i> , 2010 , 28, 1287-9	44.5	223
157	Inclusion of the hepatic locus control region, an intron, and untranslated region increases and stabilizes hepatic factor IX gene expression in vivo but not in vitro. <i>Molecular Therapy</i> , 2000 , 1, 522-32	11.7	212
156	A transfer-RNA-derived small RNA regulates ribosome biogenesis. <i>Nature</i> , 2017 , 552, 57-62	50.4	204
155	The loop position of shRNAs and pre-miRNAs is critical for the accuracy of dicer processing in vivo. <i>Cell</i> , 2012 , 151, 900-911	56.2	198
154	Preclinical in vivo evaluation of pseudotyped adeno-associated virus vectors for liver gene therapy. <i>Blood</i> , 2003 , 102, 2412-9	2.2	172
153	Increasing the size of rAAV-mediated expression cassettes in vivo by intermolecular joining of two complementary vectors. <i>Nature Biotechnology</i> , 2000 , 18, 527-32	44.5	168
152	Expression of shRNA from a tissue-specific pol II promoter is an effective and safe RNAi therapeutic. <i>Molecular Therapy</i> , 2008 , 16, 1630-6	11.7	167
151	Linear DNAs concatemize in vivo and result in sustained transgene expression in mouse liver. <i>Molecular Therapy</i> , 2001 , 3, 403-10	11.7	166
150	Distinct pathways of genomic progression to benign and malignant tumors of the liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14771-6	11.5	165
149	Hepatic gene therapy: persistent expression of human alpha 1-antitrypsin in mice after direct gene delivery in vivo. <i>Human Gene Therapy</i> , 1992 , 3, 641-7	4.8	164
148	Transposition from a gutless adeno-transposon vector stabilizes transgene expression in vivo. <i>Nature Biotechnology</i> , 2002 , 20, 999-1005	44.5	162
147	Isolation of recombinant adeno-associated virus vector-cellular DNA junctions from mouse liver. <i>Journal of Virology</i> , 1999 , 73, 5438-47	6.6	162
146	Recruitment of single-stranded recombinant adeno-associated virus vector genomes and intermolecular recombination are responsible for stable transduction of liver in vivo. <i>Journal of Virology</i> , 2000 , 74, 9451-63	6.6	160
145	The kinetics of rAAV integration in the liver. <i>Nature Genetics</i> , 1998 , 19, 13-5	36.3	159
144	Human COL7A1-corrected induced pluripotent stem cells for the treatment of recessive dystrophic epidermolysis bullosa. <i>Science Translational Medicine</i> , 2014 , 6, 264ra163	17.5	157
143	Sustained survival of human hepatocytes in mice: A model for in vivo infection with human hepatitis B and hepatitis delta viruses. <i>Nature Medicine</i> , 2000 , 6, 327-31	50.5	152

142	Improved production and purification of minicircle DNA vector free of plasmid bacterial sequences and capable of persistent transgene expression in vivo. <i>Human Gene Therapy</i> , 2005 , 16, 126-31	4.8	151
141	Argonaute proteins are key determinants of RNAi efficacy, toxicity, and persistence in the adult mouse liver. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3106-19	15.9	145
140	A bright cyan-excitable orange fluorescent protein facilitates dual-emission microscopy and enhances bioluminescence imaging in vivo. <i>Nature Biotechnology</i> , 2016 , 34, 760-7	44.5	143
139	Large-scale molecular characterization of adeno-associated virus vector integration in mouse liver. <i>Journal of Virology</i> , 2005 , 79, 3606-14	6.6	139
138	Lack of germline transmission of vector sequences following systemic administration of recombinant AAV-2 vector in males. <i>Molecular Therapy</i> , 2001 , 4, 586-92	11.7	136
137	Therapeutic levels of human factor VIII and IX using HIV-1Based lentiviral vectors in mouse liver. <i>Blood</i> , 2000 , 96, 1173-1176	2.2	135
136	Mutational analysis of the N-terminal DNA-binding domain of sleeping beauty transposase: critical residues for DNA binding and hyperactivity in mammalian cells. <i>Molecular and Cellular Biology</i> , 2004 , 24, 9239-47	4.8	130
135	Silencing of episomal transgene expression in liver by plasmid bacterial backbone DNA is independent of CpG methylation. <i>Molecular Therapy</i> , 2008 , 16, 548-56	11.7	129
134	Helper-Independent Sleeping Beauty transposon-transposase vectors for efficient nonviral gene delivery and persistent gene expression in vivo. <i>Molecular Therapy</i> , 2003 , 8, 654-65	11.7	124
133	In vivo correction of murine tyrosinemia type I by DNA-mediated transposition. <i>Molecular Therapy</i> , 2002 , 6, 759-69	11.7	124
132	Genome editing of isogenic human induced pluripotent stem cells recapitulates long QT phenotype for drug testing. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 451-9	15.1	123
131	Nonrandom transduction of recombinant adeno-associated virus vectors in mouse hepatocytes in vivo: cell cycling does not influence hepatocyte transduction. <i>Journal of Virology</i> , 2000 , 74, 3793-803	6.6	118
130	FATP2 is a hepatic fatty acid transporter and peroxisomal very long-chain acyl-CoA synthetase. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E384-93	6	117
129	Hepatocyte transplantation: clinical and experimental application. <i>Journal of Molecular Medicine</i> , 2001 , 79, 617-30	5.5	116
128	Therapeutic application of RNAi: is mRNA targeting finally ready for prime time?. <i>Journal of Clinical Investigation</i> , 2007 , 117, 3633-41	15.9	115
127	A new adenoviral helper-dependent vector results in long-term therapeutic levels of human coagulation factor IX at low doses in vivo. <i>Blood</i> , 2002 , 99, 3923-30	2.2	114
126	Liver tissue engineering at extrahepatic sites in mice as a potential new therapy for genetic liver diseases. <i>Hepatology</i> , 2005 , 41, 132-40	11.2	113
125	Silencing of hepatic fatty acid transporter protein 5 in vivo reverses diet-induced non-alcoholic fatty liver disease and improves hyperglycemia. <i>Journal of Biological Chemistry</i> , 2008 , 283, 22186-92	5.4	111

124	Histone modifications are associated with the persistence or silencing of vector-mediated transgene expression in vivo. <i>Molecular Therapy</i> , 2007 , 15, 1348-55	11.7	110
123	Site-directed transposon integration in human cells. <i>Nucleic Acids Research</i> , 2007 , 35, e50	20.1	108
122	Hepatocyte growth factor induces hepatocyte proliferation in vivo and allows for efficient retroviral-mediated gene transfer in mice. <i>Hepatology</i> , 1998 , 28, 707-16	11.2	101
121	Bioengineered AAV Capsids with Combined High Human Liver Transduction In Vivo and Unique Humoral Seroreactivity. <i>Molecular Therapy</i> , 2018 , 26, 289-303	11.7	97
120	Adeno-associated virus gene repair corrects a mouse model of hereditary tyrosinemia in vivo. <i>Hepatology</i> , 2010 , 51, 1200-8	11.2	97
119	Adenovirus transduction is required for the correction of diabetes using Pdx-1 or Neurogenin-3 in the liver. <i>Molecular Therapy</i> , 2007 , 15, 255-63	11.7	97
118	Minicircle DNA vectors achieve sustained expression reflected by active chromatin and transcriptional level. <i>Molecular Therapy</i> , 2013 , 21, 131-8	11.7	91
117	Method for multiple portal vein infusions in mice: quantitation of adenovirus-mediated hepatic gene transfer. <i>BioTechniques</i> , 1996 , 20, 278-85	2.5	91
116	Modified HIV-1 based lentiviral vectors have an effect on viral transduction efficiency and gene expression in vitro and in vivo. <i>Molecular Therapy</i> , 2001 , 4, 164-73	11.7	90
115	The host response to adenovirus, helper-dependent adenovirus, and adeno-associated virus in mouse liver. <i>Molecular Therapy</i> , 2008 , 16, 931-41	11.7	89
114	Recombinant AAV as a platform for translating the therapeutic potential of RNA interference. <i>Molecular Therapy</i> , 2014 , 22, 692-701	11.7	88
113	Liver transduction with recombinant adeno-associated virus is primarily restricted by capsid serotype not vector genotype. <i>Journal of Virology</i> , 2006 , 80, 426-39	6.6	86
112	A limited number of transducible hepatocytes restricts a wide-range linear vector dose response in recombinant adeno-associated virus-mediated liver transduction. <i>Journal of Virology</i> , 2002 , 76, 11343-9	6.6	86
111	Integrating adenovirus-adeno-associated virus hybrid vectors devoid of all viral genes. <i>Journal of Virology</i> , 1999 , 73, 9314-24	6.6	84
110	Genome editing of human embryonic stem cells and induced pluripotent stem cells with zinc finger nucleases for cellular imaging. <i>Circulation Research</i> , 2012 , 111, 1494-503	15.7	81
109	Novel minicircle vector for gene therapy in murine myocardial infarction. <i>Circulation</i> , 2009 , 120, S230-7	16.7	81
108	Determinants of hepatitis C translational initiation in vitro, in cultured cells and mice. <i>Molecular Therapy</i> , 2002 , 5, 676-84	11.7	81
107	Adeno-Associated Virus Vectors and Hematology. <i>Blood</i> , 1999 , 94, 864-874	2.2	81

106	Minicircle DNA-based gene therapy coupled with immune modulation permits long-term expression of β -iduronidase in mice with mucopolysaccharidosis type I. <i>Molecular Therapy</i> , 2011 , 19, 450-60	11.7	77
105	Therapeutic serum concentrations of human alpha-1-antitrypsin after adenoviral-mediated gene transfer into mouse hepatocytes. <i>Hepatology</i> , 1995 , 21, 815-819	11.2	76
104	Episomal persistence of recombinant adenoviral vector genomes during the cell cycle in vivo. <i>Journal of Virology</i> , 2003 , 77, 7689-95	6.6	74
103	Rescue of Pompe disease in mice by AAV-mediated liver delivery of secretable acid β -glucosidase. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	72
102	Nonhomologous-end-joining factors regulate DNA repair fidelity during Sleeping Beauty element transposition in mammalian cells. <i>Molecular and Cellular Biology</i> , 2003 , 23, 8505-18	4.8	70
101	A gene-deleted adenoviral vector results in phenotypic correction of canine hemophilia B without liver toxicity or thrombocytopenia. <i>Blood</i> , 2003 , 102, 2403-11	2.2	69
100	Host factors that impact the biodistribution and persistence of multipotent adult progenitor cells. <i>Blood</i> , 2006 , 107, 4182-8	2.2	68
99	A potent and specific morpholino antisense inhibitor of hepatitis C translation in mice. <i>Hepatology</i> , 2003 , 38, 503-8	11.2	68
98	A direct comparison of two nonviral gene therapy vectors for somatic integration: in vivo evaluation of the bacteriophage integrase phiC31 and the Sleeping Beauty transposase. <i>Molecular Therapy</i> , 2005 , 11, 695-706	11.7	66
97	RNA interference. Drugging RNAi. <i>Science</i> , 2015 , 347, 1069-70	33.3	65
96	Hyperactive sleeping beauty transposase enables persistent phenotypic correction in mice and a canine model for hemophilia B. <i>Molecular Therapy</i> , 2010 , 18, 1896-906	11.7	65
95	Thermodynamic stability of small hairpin RNAs highly influences the loading process of different mammalian Argonautes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9208-13	11.5	64
94	Capped small RNAs and MOV10 in human hepatitis delta virus replication. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 714-21	17.6	64
93	RNAi and gene therapy: a mutual attraction. <i>Hematology American Society of Hematology Education Program</i> , 2007 , 473-81	3.1	64
92	A rapid protocol for construction and production of high-capacity adenoviral vectors. <i>Nature Protocols</i> , 2009 , 4, 547-64	18.8	56
91	Somatic correction of junctional epidermolysis bullosa by a highly recombinogenic AAV variant. <i>Molecular Therapy</i> , 2014 , 22, 725-33	11.7	54
90	Radioprotection in vitro and in vivo by minicircle plasmid carrying the human manganese superoxide dismutase transgene. <i>Human Gene Therapy</i> , 2008 , 19, 820-6	4.8	52
89	The role of DNA-PKcs and artemis in opening viral DNA hairpin termini in various tissues in mice. <i>Journal of Virology</i> , 2007 , 81, 11304-21	6.6	50

88	The extragenic spacer length between the 5Tand 3Tends of the transgene expression cassette affects transgene silencing from plasmid-based vectors. <i>Molecular Therapy</i> , 2012 , 20, 2111-9	11.7	47
87	Role of hepatocyte direct hyperplasia in lentivirus-mediated liver transduction in vivo. <i>Human Gene Therapy</i> , 2002 , 13, 653-63	4.8	47
86	DNA palindromes with a modest arm length of greater, similar 20 base pairs are a significant target for recombinant adeno-associated virus vector integration in the liver, muscles, and heart in mice. <i>Journal of Virology</i> , 2007 , 81, 11290-303	6.6	46
85	Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals. <i>Nature Methods</i> , 2020 , 17, 852-860	21.6	46
84	Multiplexed in vivo homology-directed repair and tumor barcoding enables parallel quantification of Kras variant oncogenicity. <i>Nature Communications</i> , 2017 , 8, 2053	17.4	44
83	Novel codon-optimized mini-intronic plasmid for efficient, inexpensive, and xeno-free induction of pluripotency. <i>Scientific Reports</i> , 2015 , 5, 8081	4.9	44
82	A mini-intronic plasmid (MIP): a novel robust transgene expression vector in vivo and in vitro. <i>Molecular Therapy</i> , 2013 , 21, 954-63	11.7	44
81	Helper-independent and AAV-ITR-independent chromosomal integration of double-stranded linear DNA vectors in mice. <i>Molecular Therapy</i> , 2003 , 7, 101-11	11.7	44
80	Looking into the safety of AAV vectors. <i>Nature</i> , 2003 , 424, 251	50.4	43
79	Increased maintenance and persistence of transgenes by excision of expression cassettes from plasmid sequences in vivo. <i>Human Gene Therapy</i> , 2005 , 16, 558-70	4.8	42
78	A modified urokinase plasminogen activator induces liver regeneration without bleeding. <i>Human Gene Therapy</i> , 1995 , 6, 1029-37	4.8	42
77	Survival Advantage of Both Human Hepatocyte Xenografts and Genome-Edited Hepatocytes for Treatment of Δ Antitrypsin Deficiency. <i>Molecular Therapy</i> , 2017 , 25, 2477-2489	11.7	41
76	The effect of age on hepatic gene transfer with self-inactivating lentiviral vectors in vivo. <i>Molecular Therapy</i> , 2003 , 8, 314-23	11.7	40
75	Cis-acting gene regulatory activities in the terminal regions of sleeping beauty DNA transposon-based vectors. <i>Human Gene Therapy</i> , 2007 , 18, 1193-204	4.8	38
74	Somatic integration from an adenoviral hybrid vector into a hot spot in mouse liver results in persistent transgene expression levels in vivo. <i>Molecular Therapy</i> , 2007 , 15, 146-56	11.7	37
73	Low-level shRNA cytotoxicity can contribute to MYC-induced hepatocellular carcinoma in adult mice. <i>Molecular Therapy</i> , 2010 , 18, 161-70	11.7	35
72	Real-time in vivo imaging of stem cells following transgenesis by transposition. <i>Molecular Therapy</i> , 2005 , 12, 42-8	11.7	35
71	Adenoviral preterminal protein stabilizes mini-adenoviral genomes in vitro and in vivo. <i>Nature Biotechnology</i> , 1997 , 15, 1383-7	44.5	34

70	Optimization of cis-acting elements for gene expression from nonviral vectors in vivo. <i>Human Gene Therapy</i> , 2003 , 14, 215-25	4.8	34
69	miR-122 removal in the liver activates imprinted microRNAs and enables more effective microRNA-mediated gene repression. <i>Nature Communications</i> , 2018 , 9, 5321	17.4	34
68	Stability and repeat regeneration potential of the engineered liver tissues under the kidney capsule in mice. <i>Cell Transplantation</i> , 2005 , 14, 621-7	4	33
67	Future of rAAV Gene Therapy: Platform for RNAi, Gene Editing, and Beyond. <i>Human Gene Therapy</i> , 2017 , 28, 361-372	4.8	32
66	Expression determinants of mammalian argonaute proteins in mediating gene silencing. <i>Nucleic Acids Research</i> , 2012 , 40, 3704-13	20.1	32
65	Using a barcoded AAV capsid library to select for clinically relevant gene therapy vectors. <i>JCI Insight</i> , 2019 , 4,	9.9	32
64	A universal system to select gene-modified hepatocytes in vivo. <i>Science Translational Medicine</i> , 2016 , 8, 342ra79	17.5	31
63	Combined proteomic-RNAi screen for host factors involved in human hepatitis delta virus replication. <i>Rna</i> , 2009 , 15, 1971-9	5.8	31
62	Implication of interfering antibody formation and apoptosis as two different mechanisms leading to variable duration of adenovirus-mediated transgene expression in immune-competent mice. <i>Journal of Virology</i> , 1999 , 73, 4755-66	6.6	31
61	Promoterless gene targeting without nucleases rescues lethality of a Crigler-Najjar syndrome mouse model. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1346-1355	12	28
60	AAV vectors containing rDNA homology display increased chromosomal integration and transgene persistence. <i>Molecular Therapy</i> , 2012 , 20, 1902-11	11.7	28
59	Translational data from adeno-associated virus-mediated gene therapy of hemophilia B in dogs. <i>Human Gene Therapy Clinical Development</i> , 2015 , 26, 5-14	3.2	25
58	RNA interference-induced hepatotoxicity results from loss of the first synthesized isoform of microRNA-122 in mice. <i>Nature Medicine</i> , 2016 , 22, 557-62	50.5	25
57	Organ size control is dominant over Rb family inactivation to restrict proliferation in vivo. <i>Cell Reports</i> , 2014 , 8, 371-81	10.6	24
56	Ribosomal DNA integrating rAAV-rDNA vectors allow for stable transgene expression. <i>Molecular Therapy</i> , 2012 , 20, 1912-23	11.7	24
55	A tRNA-Derived Small RNA Regulates Ribosomal Protein S28 Protein Levels after Translation Initiation in Humans and Mice. <i>Cell Reports</i> , 2019 , 29, 3816-3824.e4	10.6	21
54	rAAV-mediated tumorigenesis: still unresolved after an AAV assault. <i>Molecular Therapy</i> , 2012 , 20, 2014-7	11.7	20
53	Pathways of removal of free DNA vector ends in normal and DNA-PKcs-deficient SCID mouse hepatocytes transduced with rAAV vectors. <i>Human Gene Therapy</i> , 2003 , 14, 871-81	4.8	20

52	Regulation of microRNA-mediated gene silencing by microRNA precursors. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 825-32	17.6	19
51	Correction of DNA protein kinase deficiency by spliceosome-mediated RNA trans-splicing and sleeping beauty transposon delivery. <i>Molecular Therapy</i> , 2007 , 15, 1273-9	11.7	19
50	Rapid and stable knockdown of an endogenous gene in retinal pigment epithelium. <i>Human Gene Therapy</i> , 2007 , 18, 871-80	4.8	19
49	Free DNA ends are essential for concatemerization of synthetic double-stranded adeno-associated virus vector genomes transfected into mouse hepatocytes in vivo. <i>Molecular Therapy</i> , 2003 , 7, 112-21	11.7	19
48	Transfer RNA-Derived Small RNAs: Another Layer of Gene Regulation and Novel Targets for Disease Therapeutics. <i>Molecular Therapy</i> , 2020 , 28, 2340-2357	11.7	19
47	An in vitro-identified high-affinity nucleosome-positioning signal is capable of transiently positioning a nucleosome in vivo. <i>Epigenetics and Chromatin</i> , 2010 , 3, 13	5.8	18
46	Regulated complex assembly safeguards the fidelity of Sleeping Beauty transposition. <i>Nucleic Acids Research</i> , 2017 , 45, 311-326	20.1	17
45	Weak base pairing in both seed and 3' regions reduces RNAi off-targets and enhances si/shRNA designs. <i>Nucleic Acids Research</i> , 2014 , 42, 12169-76	20.1	17
44	Modified infusion procedures affect recombinant adeno-associated virus vector type 2 transduction in the liver. <i>Human Gene Therapy</i> , 2005 , 16, 299-306	4.8	17
43	Early Clinical Trial Results Following Administration of a Low Dose of a Novel Self Complementary Adeno-Associated Viral Vector Encoding Human Factor IX In Two Subjects with Severe Hemophilia B. <i>Blood</i> , 2010 , 116, 248-248	2.2	17
42	Coupling AAV-mediated promoterless gene targeting to SaCas9 nuclease to efficiently correct liver metabolic diseases. <i>JCI Insight</i> , 2019 , 5,	9.9	15
41	Evolution of a Human-Specific Tandem Repeat Associated with ALS. <i>American Journal of Human Genetics</i> , 2020 , 107, 445-460	11	15
40	An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. <i>Nature Chemical Biology</i> , 2019 , 15, 433-436	11.7	14
39	Allele-Specific Silencing Ameliorates Restrictive Cardiomyopathy Attributable to a Human Myosin Regulatory Light Chain Mutation. <i>Circulation</i> , 2019 , 140, 765-778	16.7	14
38	Tracking Adeno-Associated Virus Capsid Evolution by High-Throughput Sequencing. <i>Human Gene Therapy</i> , 2020 , 31, 553-564	4.8	12
37	A 5' Noncoding Exon Containing Engineered Intron Enhances Transgene Expression from Recombinant AAV Vectors in vivo. <i>Human Gene Therapy</i> , 2017 , 28, 125-134	4.8	11
36	Bioengineered Viral Platform for Intramuscular Passive Vaccine Delivery to Human Skeletal Muscle. <i>Molecular Therapy - Methods and Clinical Development</i> , 2018 , 10, 144-155	6.4	11
35	The anti-genomic (negative) strand of Hepatitis C Virus is not targetable by shRNA. <i>Nucleic Acids Research</i> , 2013 , 41, 3688-98	20.1	11

34	Promoterless, Nuclease-Free Genome Editing Confers a Growth Advantage for Corrected Hepatocytes in Mice With Methylmalonic Acidemia. <i>Hepatology</i> , 2021 , 73, 2223-2237	11.2	11
33	Osteosarcoma Derived from Cultured Mesenchymal Stem Cells.. <i>Blood</i> , 2006 , 108, 2554-2554	2.2	10
32	Hepatic parenchymal replacement in mice by transplanted allogeneic hepatocytes is facilitated by bone marrow transplantation and mediated by CD4 cells. <i>Hepatology</i> , 2008 , 47, 706-18	11.2	9
31	Development of a clinical protocol for hepatic gene transfer: lessons learned in preclinical studies. <i>Pediatric Research</i> , 1993 , 33, 313-20	3.2	9
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