

Robert M Kotin

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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.

56
papers

5,143
citations

35
h-index

57
g-index

57
ext. papers

5,477
ext. citations

6.6
avg, IF

5.3
L-index

#	Paper	IF	Citations
56	RNAi suppresses polyglutamine-induced neurodegeneration in a model of spinocerebellar ataxia. <i>Nature Medicine</i> , 2004 , 10, 816-20	50.5	577
55	RNA interference improves motor and neuropathological abnormalities in a Huntington's disease mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5820-5	11.5	555
54	Insect cells as a factory to produce adeno-associated virus type 2 vectors. <i>Human Gene Therapy</i> , 2002 , 13, 1935-43	4.8	359
53	Cloning and characterization of adeno-associated virus type 5. <i>Journal of Virology</i> , 1999 , 73, 1309-19	6.6	297
52	Mapping and direct visualization of a region-specific viral DNA integration site on chromosome 19q13-qter. <i>Genomics</i> , 1991 , 10, 831-4	4.3	289
51	Adeno-associated virus type 5 (AAV5) but not AAV2 binds to the apical surfaces of airway epithelia and facilitates gene transfer. <i>Journal of Virology</i> , 2000 , 74, 3852-8	6.6	268
50	Prospects for the use of adeno-associated virus as a vector for human gene therapy. <i>Human Gene Therapy</i> , 1994 , 5, 793-801	4.8	220
49	A simplified baculovirus-AAV expression vector system coupled with one-step affinity purification yields high-titer rAAV stocks from insect cells. <i>Molecular Therapy</i> , 2009 , 17, 1888-96	11.7	180
48	Baculovirus: an insect-derived vector for diverse gene transfer applications. <i>Molecular Therapy</i> , 2013 , 21, 739-49	11.7	139
47	Organization of adeno-associated virus DNA in latently infected Detroit 6 cells. <i>Virology</i> , 1989 , 170, 460-7	3.6	122
46	Structural unity among viral origin binding proteins: crystal structure of the nuclease domain of adeno-associated virus Rep. <i>Molecular Cell</i> , 2002 , 10, 327-37	17.6	109
45	Immunological aspects of recombinant adeno-associated virus delivery to the mammalian brain. <i>Journal of Virology</i> , 2002 , 76, 8446-54	6.6	104
44	High-efficiency transfer of the T cell co-stimulatory molecule B7-2 to lymphoid cells using high-titer recombinant adeno-associated virus vectors. <i>Human Gene Therapy</i> , 1995 , 6, 1531-41	4.8	102
43	Forelimb treatment in a large cohort of dystrophic dogs supports delivery of a recombinant AAV for exon skipping in Duchenne patients. <i>Molecular Therapy</i> , 2014 , 22, 1923-35	11.7	95
42	Adeno-associated virus type 2 Rep78 induces apoptosis through caspase activation independently of p53. <i>Journal of Virology</i> , 2000 , 74, 9441-50	6.6	91
41	Large-scale recombinant adeno-associated virus production. <i>Human Molecular Genetics</i> , 2011 , 20, R2-6	5.6	82
40	Adeno-associated virus type 5: transduction efficiency and cell-type specificity in the primate retina. <i>Human Gene Therapy</i> , 2003 , 14, 1663-71	4.8	78

39	Scalable generation of high-titer recombinant adeno-associated virus type 5 in insect cells. <i>Journal of Virology</i> , 2006 , 80, 1874-85	6.6	76
38	The Rep52 gene product of adeno-associated virus is a DNA helicase with 3' to 5' polarity. <i>Journal of Virology</i> , 1998 , 72, 4874-81	6.6	76
37	PrKX is a novel catalytic subunit of the cAMP-dependent protein kinase regulated by the regulatory subunit type I. <i>Journal of Biological Chemistry</i> , 1999 , 274, 5370-8	5.4	75
36	In Vivo Selection Yields AAV-B1 Capsid for Central Nervous System and Muscle Gene Therapy. <i>Molecular Therapy</i> , 2016 , 24, 1247-57	11.7	75
35	The nuclease domain of adeno-associated virus rep coordinates replication initiation using two distinct DNA recognition interfaces. <i>Molecular Cell</i> , 2004 , 13, 403-14	17.6	74
34	Recombinant adeno-associated virus serotypes 2- and 5-mediated gene transfer in the mammalian brain: quantitative analysis of heparin co-infusion. <i>Molecular Therapy</i> , 2002 , 5, 371-80	11.7	71
33	Long-term restoration of cardiac dystrophin expression in golden retriever muscular dystrophy following rAAV6-mediated exon skipping. <i>Molecular Therapy</i> , 2012 , 20, 580-9	11.7	64
32	Producing recombinant adeno-associated virus in foster cells: overcoming production limitations using a baculovirus-insect cell expression strategy. <i>Human Gene Therapy</i> , 2009 , 20, 807-17	4.8	64
31	Reproducible high yields of recombinant adeno-associated virus produced using invertebrate cells in 0.02- to 200-liter cultures. <i>Human Gene Therapy</i> , 2011 , 22, 1021-30	4.8	64
30	Serum-free production and column purification of adeno-associated virus type 5. <i>Journal of Virological Methods</i> , 2003 , 114, 115-24	2.6	61
29	An adeno-associated virus (AAV) initiator protein, Rep78, catalyzes the cleavage and ligation of single-stranded AAV ori DNA. <i>Journal of Virology</i> , 2000 , 74, 3122-9	6.6	58
28	Adeno-associated virus (AAV) type 5 Rep protein cleaves a unique terminal resolution site compared with other AAV serotypes. <i>Journal of Virology</i> , 1999 , 73, 4293-8	6.6	57
27	Versatile and efficient genome editing in human cells by combining zinc-finger nucleases with adeno-associated viral vectors. <i>Human Gene Therapy</i> , 2012 , 23, 321-9	4.8	54
26	Economized large-scale production of high yield of rAAV for gene therapy applications exploiting baculovirus expression system. <i>Journal of Gene Medicine</i> , 2007 , 9, 938-48	3.5	49
25	Inhibition of PrKX, a novel protein kinase, and the cyclic AMP-dependent protein kinase PKA by the regulatory proteins of adeno-associated virus type 2. <i>Molecular and Cellular Biology</i> , 1998 , 18, 5921-9	4.8	47
24	Adenoassociated virus-mediated transfer of a functional water channel into salivary epithelial cells in vitro and in vivo. <i>Human Gene Therapy</i> , 1998 , 9, 2777-85	4.8	42
23	Manufacturing Clinical Grade Recombinant Adeno-Associated Virus Using Invertebrate Cell Lines. <i>Human Gene Therapy</i> , 2017 , 28, 350-360	4.8	40
22	Process optimization of large-scale production of recombinant adeno-associated vectors using dielectric spectroscopy. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 761-72	5.7	40

21	Recombinant adeno-associated virus serotype 2 vectors mediate stable interleukin 10 secretion from salivary glands into the bloodstream. <i>Human Gene Therapy</i> , 2002 , 13, 287-98	4.8	35
20	Production of recombinant adeno-associated vectors using two bioreactor configurations at different scales. <i>Journal of Virological Methods</i> , 2007 , 145, 155-61	2.6	33
19	Biochemical characterization of Junonia coenia densovirus nonstructural protein NS-1. <i>Journal of Virology</i> , 2002 , 76, 338-45	6.6	29
18	Recombinant adeno-associated virus for the generation of autologous, gene-modified tumor vaccines: evidence for a high transduction efficiency into primary epithelial cancer cells. <i>Human Gene Therapy</i> , 1998 , 9, 1049-59	4.8	29
17	Widespread dispersion of adeno-associated virus serotype 1 and adeno-associated virus serotype 6 vectors in the rat central nervous system and in human glioblastoma multiforme xenografts. <i>Human Gene Therapy</i> , 2005 , 16, 381-92	4.8	25
16	Germline viral "fossils" guide in silico reconstruction of a mid-Cenozoic era marsupial adeno-associated virus. <i>Scientific Reports</i> , 2016 , 6, 28965	4.9	24
15	Glucose-responsive gene delivery in pancreatic Islet cells via recombinant adeno-associated viral vectors. <i>Pharmaceutical Research</i> , 2000 , 17, 1056-61	4.5	23
14	Evidence of prior exposure to human bocavirus as determined by a retrospective serological study of 404 serum samples from adults in the United States. <i>Vaccine Journal</i> , 2009 , 16, 597-604		21
13	Transposase-mediated construction of an integrated adeno-associated virus type 5 helper plasmid. <i>BioTechniques</i> , 2002 , 33, 204-6, 208, 210-1	2.5	19
12	Strategies for manufacturing recombinant adeno-associated virus vectors for gene therapy applications exploiting baculovirus technology. <i>Briefings in Functional Genomics & Proteomics</i> , 2008 , 7, 303-11		18
11	Glucose- and metabolically regulated hepatic insulin gene therapy for diabetes. <i>Pharmaceutical Research</i> , 2008 , 25, 1460-8	4.5	18
10	Adeno-associated virus (AAV) serotypes 2, 4 and 5 display similar transduction profiles and penetrate solid tumor tissue in models of human glioma. <i>Journal of Gene Medicine</i> , 2006 , 8, 1131-40	3.5	18
9	Chromatography-based purification of adeno-associated virus. <i>Methods in Molecular Biology</i> , 2008 , 434, 37-54	1.4	15
8	Recombinant adeno-associated virus vector for gene transfer to the transplanted rat heart. <i>Transplant International</i> , 2007 , 20, 550-7	3	15
7	Profiles of PrKX expression in developmental mouse embryo and human tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 2005 , 53, 1003-9	3.4	15
6	Sequences around the 3' end of a ribosomal RNA gene of hamster mitochondria. Further support for the transcriptional attenuation model. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1984 , 782, 106-8		12
5	Large-scale production of recombinant adeno-associated viral vectors. <i>Methods in Molecular Biology</i> , 2008 , 433, 79-96	1.4	12
4	The DNA minor groove binding agents Hoechst 33258 and 33342 enhance recombinant adeno-associated virus (rAAV) transgene expression. <i>Journal of Gene Medicine</i> , 2005 , 7, 420-31	3.5	10

3	Production and characterization of novel recombinant adeno-associated virus replicative-form genomes: a eukaryotic source of DNA for gene transfer. <i>PLoS ONE</i> , 2013 , 8, e69879	3.7	7
2	Evidence that the methylation inhibitor cycloleucine causes accumulation of a discrete ribosomal RNA precursor in hamster mitochondria. <i>Molecular Biology Reports</i> , 1986 , 11, 51-5	2.8	6
1	Evolution of dependoparvoviruses across geological timescales-implications for design of AAV-based gene therapy vectors. <i>Virus Evolution</i> , 2020 , 6, veaa043	3.7	2