

Sergei Zolotukhin

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73
papers

5,083
citations

34
h-index

71
g-index

74
ext. papers

5,648
ext. citations

6.7
avg, IF

4.95
L-index

#	Paper	IF	Citations
73	Recombinant AAV viral vectors pseudotyped with viral capsids from serotypes 1, 2, and 5 display differential efficiency and cell tropism after delivery to different regions of the central nervous system. <i>Molecular Therapy</i> , 2004 , 10, 302-17	11.7	598
72	Production and purification of serotype 1, 2, and 5 recombinant adeno-associated viral vectors. <i>Methods</i> , 2002 , 28, 158-67	4.6	460
71	Next generation of adeno-associated virus 2 vectors: point mutations in tyrosines lead to high-efficiency transduction at lower doses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7827-32	11.5	422
70	High-efficiency transduction of the mouse retina by tyrosine-mutant AAV serotype vectors. <i>Molecular Therapy</i> , 2009 , 17, 463-71	11.7	299
69	Identification of amino acid residues in the capsid proteins of adeno-associated virus type 2 that contribute to heparan sulfate proteoglycan binding. <i>Journal of Virology</i> , 2003 , 77, 6995-7006	6.6	259
68	Neuron-specific transduction in the rat septohippocampal or nigrostriatal pathway by recombinant adeno-associated virus vectors. <i>Experimental Neurology</i> , 1998 , 150, 183-94	5.7	205
67	Sustained peripheral expression of transgene adiponectin offsets the development of diet-induced obesity in rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14217-22	11.5	204
66	Tyrosine-phosphorylation of AAV2 vectors and its consequences on viral intracellular trafficking and transgene expression. <i>Virology</i> , 2008 , 381, 194-202	3.6	167
65	Structure of adeno-associated virus serotype 8, a gene therapy vector. <i>Journal of Virology</i> , 2007 , 81, 12260-71	6.71	163
64	Adeno-associated virus type 2 VP2 capsid protein is nonessential and can tolerate large peptide insertions at its N terminus. <i>Journal of Virology</i> , 2004 , 78, 6595-609	6.6	145
63	Production and purification of recombinant adeno-associated virus. <i>Methods in Enzymology</i> , 2000 , 316, 743-61	1.7	130
62	Structural insight into the unique properties of adeno-associated virus serotype 9. <i>Journal of Virology</i> , 2012 , 86, 6947-58	6.6	123
61	Neutralizing antibodies against AAV serotypes 1, 2, 6, and 9 in sera of commonly used animal models. <i>Molecular Therapy</i> , 2012 , 20, 73-83	11.7	106
60	A dual role of EGFR protein tyrosine kinase signaling in ubiquitination of AAV2 capsids and viral second-strand DNA synthesis. <i>Molecular Therapy</i> , 2007 , 15, 1323-30	11.7	105
59	High-efficiency transduction and correction of murine hemophilia B using AAV2 vectors devoid of multiple surface-exposed tyrosines. <i>Molecular Therapy</i> , 2010 , 18, 2048-56	11.7	103
58	Successful production of pseudotyped rAAV vectors using a modified baculovirus expression system. <i>Molecular Therapy</i> , 2005 , 12, 1217-25	11.7	97
57	OneBac: platform for scalable and high-titer production of adeno-associated virus serotype 1-12 vectors for gene therapy. <i>Human Gene Therapy</i> , 2014 , 25, 212-22	4.8	90

56	Retroviral transfer and expression of a humanized, red-shifted green fluorescent protein gene into human tumor cells. <i>Nature Biotechnology</i> , 1996 , 14, 610-4	44.5	83
55	Efficient transduction of vascular endothelial cells with recombinant adeno-associated virus serotype 1 and 5 vectors. <i>Human Gene Therapy</i> , 2005 , 16, 235-47	4.8	77
54	E Pluribus Unum: 50 Years of Research, Millions of Viruses, and One Goal--Tailored Acceleration of AAV Evolution. <i>Molecular Therapy</i> , 2015 , 23, 1819-31	11.7	66
53	Leptin-induced leptin resistance reveals separate roles for the anorexic and thermogenic responses in weight maintenance. <i>Endocrinology</i> , 2002 , 143, 3026-35	4.8	64
52	An inducible system for highly efficient production of recombinant adeno-associated virus (rAAV) vectors in insect Sf9 cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5059-64	11.5	58
51	Snord116 is critical in the regulation of food intake and body weight. <i>Scientific Reports</i> , 2016 , 6, 18614	4.9	54
50	Adeno-Associated Virus Type 2 and Hepatocellular Carcinoma?. <i>Human Gene Therapy</i> , 2015 , 26, 779-81	4.8	52
49	Structural insights into adeno-associated virus serotype 5. <i>Journal of Virology</i> , 2013 , 87, 11187-99	6.6	51
48	Central leptin gene therapy fails to overcome leptin resistance associated with diet-induced obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003 , 285, R1011-20	3.2	51
47	Vector design Tour de Force: integrating combinatorial and rational approaches to derive novel adeno-associated virus variants. <i>Molecular Therapy</i> , 2014 , 22, 1900-9	11.7	42
46	Leptin-induced leptin resistant rats exhibit enhanced responses to the melanocortin agonist MT II. <i>Neuropharmacology</i> , 2003 , 45, 211-9	5.5	42
45	Salivary PYY: a putative bypass to satiety. <i>PLoS ONE</i> , 2011 , 6, e26137	3.7	41
44	A simplified purification protocol for recombinant adeno-associated virus vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014 , 1, 14034	6.4	40
43	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 1271-4		38
42	Production, purification, crystallization and preliminary X-ray structural studies of adeno-associated virus serotype 5. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 917-21		36
41	Modulation of taste responsiveness by the satiation hormone peptide YY. <i>FASEB Journal</i> , 2013 , 27, 5022-33		35
40	High-efficiency transduction of human monocyte-derived dendritic cells by capsid-modified recombinant AAV2 vectors. <i>Vaccine</i> , 2012 , 30, 3908-17	4.1	34
39	Direct Head-to-Head Evaluation of Recombinant Adeno-associated Viral Vectors Manufactured in Human versus Insect Cells. <i>Molecular Therapy</i> , 2017 , 25, 2661-2675	11.7	32

38	OneBac 2.0: Sf9 Cell Lines for Production of AAV5 Vectors with Enhanced Infectivity and Minimal Encapsidation of Foreign DNA. <i>Human Gene Therapy</i> , 2015 , 26, 688-97	4.8	31
37	Streamlined large-scale production of recombinant adeno-associated virus (rAAV) vectors. <i>Methods in Enzymology</i> , 2002 , 346, 413-30	1.7	31
36	Ectopic expression of Wnt10b decreases adiposity and improves glucose homeostasis in obese rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 293, E726-36	6	30
35	Synergy between leptin therapy and a seemingly negligible amount of voluntary wheel running prevents progression of dietary obesity in leptin-resistant rats. <i>Diabetes</i> , 2008 , 57, 614-22	0.9	28
34	Helper-free Production of Laboratory Grade AAV and Purification by Iodixanol Density Gradient Centrifugation. <i>Molecular Therapy - Methods and Clinical Development</i> , 2018 , 10, 1-7	6.4	26
33	Transduction of human and mouse pancreatic islet cells using a bicistronic recombinant adeno-associated viral vector. <i>Molecular Therapy</i> , 2002 , 5, 154-60	11.7	25
32	Limited ATF4 Expression in Degenerating Retinas with Ongoing ER Stress Promotes Photoreceptor Survival in a Mouse Model of Autosomal Dominant Retinitis Pigmentosa. <i>PLoS ONE</i> , 2016 , 11, e0154779	3.7	25
31	Distribution of Y-receptors in murine lingual epithelia. <i>PLoS ONE</i> , 2012 , 7, e46358	3.7	24
30	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 9. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009 , 65, 715-8		23
29	Production, purification, crystallization and preliminary X-ray analysis of adeno-associated virus serotype 8. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005 , 61, 558-61		22
28	High-accuracy biodistribution analysis of adeno-associated virus variants by double barcode sequencing. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015 , 2, 15041	6.4	20
27	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 7. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007 , 63, 1073-6		18
26	Achieving High-Yield Production of Functional AAV5 Gene Delivery Vectors via Fedbatch in an Insect Cell-One Baculovirus System. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019 , 13, 279-289	6.4	17
25	Leptin-Induced Leptin Resistance Reveals Separate Roles for the Anorexic and Thermogenic Responses in Weight Maintenance		17
24	Conditional, genetic disruption of ciliary neurotrophic factor receptors reveals a role in adult motor neuron survival. <i>European Journal of Neuroscience</i> , 2008 , 27, 2830-7	3.5	16
23	Prader-Willi Critical Region, a Non-Translated, Imprinted Central Regulator of Bone Mass: Possible Role in Skeletal Abnormalities in Prader-Willi Syndrome. <i>PLoS ONE</i> , 2016 , 11, e0148155	3.7	16
22	Evaluation of engineered AAV capsids for hepatic factor IX gene transfer in murine and canine models. <i>Journal of Translational Medicine</i> , 2017 , 15, 94	8.5	15
21	OneBac 2.0: Sf9 Cell Lines for Production of AAV1, AAV2, and AAV8 Vectors with Minimal Encapsidation of Foreign DNA. <i>Human Gene Therapy Methods</i> , 2017 , 28, 15-22	4.9	13

20	An animal model of PDH deficiency using AAV8-siRNA vector-mediated knockdown of pyruvate dehydrogenase E1 β . <i>Molecular Genetics and Metabolism</i> , 2010 , 101, 183-91	3.7	13
19	The CRTC1-MAML2 fusion is the major oncogenic driver in mucoepidermoid carcinoma. <i>JCI Insight</i> , 2021 , 6,	9.9	13
18	Salivary peptide tyrosine-tyrosine 3-36 modulates ingestive behavior without inducing taste aversion. <i>Journal of Neuroscience</i> , 2013 , 33, 18368-80	6.6	12
17	Altering Tropism of rAAV by Directed Evolution. <i>Methods in Molecular Biology</i> , 2016 , 1382, 151-73	1.4	10
16	Optimization of recombinant adeno-associated viral vectors for human beta-globin gene transfer and transgene expression. <i>Human Gene Therapy</i> , 2008 , 19, 365-75	4.8	10
15	Engineering and Selection of a Novel AAV3B Variant with High Hepatocyte Tropism and Reduced Seroreactivity. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 19, 347-361	6.4	9
14	Applying machine learning to predict viral assembly for adeno-associated virus capsid libraries. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 20, 276-286	6.4	9
13	Taste Receptor Cells in Mice Express Receptors for the Hormone Adiponectin. <i>Chemical Senses</i> , 2019 , 44, 409-422	4.8	7
12	Development of Novel Recombinant AAV Vectors and Strategies for the Potential Gene Therapy of Hemophilia. <i>Journal of Genetic Syndromes & Gene Therapy</i> , 2012 , S1,		7
11	A comprehensive study of a 29-capsid AAV library in a non-human primate central nervous system. <i>Molecular Therapy</i> , 2021 , 29, 2806-2820	11.7	7
10	An Immune-Competent Murine Model to Study Elimination of AAV-Transduced Hepatocytes by Capsid-Specific CD8 T Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017 , 5, 142-152	6.4	6
9	Removal of Endotoxin from rAAV Samples Using a Simple Detergent-Based Protocol. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019 , 15, 112-119	6.4	5
8	Gene therapy for obesity. <i>Expert Opinion on Biological Therapy</i> , 2005 , 5, 347-57	5.4	3
7	Identification of low-expressing transcripts of the NPY receptors family in the murine lingual epithelia. <i>Methods in Molecular Biology</i> , 2014 , 1211, 213-28	1.4	2
6	Scratching the surface of RGD-directed AAV capsid engineering. <i>Molecular Therapy</i> , 2021 , 29, 3099-3100	11.7	1
5	Mixture interactions at mammalian olfactory receptors are dependent on the cellular environment. <i>Scientific Reports</i> , 2021 , 11, 9278	4.9	0
4	Y1 receptors modulate taste-related behavioral responsiveness in male mice to prototypical gustatory stimuli. <i>Hormones and Behavior</i> , 2021 , 136, 105056	3.7	0
3	Gene Therapy for Obesity and Diabetes 2010 , 251-260		

- 2 Conditional, genetic disruption of ciliary neurotrophic factor receptors reveals a role in adult motor neuron survival. *European Journal of Neuroscience*, **2008**, 28, 238-238 3.5
- 1 Targeting Saliva for the Purpose of Modulating Feeding Behavior. *FASEB Journal*, **2010**, 24, lb279 0.9