

# Sergei Zolotukhin

## List of Publications by Year in Descending Order

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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.

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	Scratching the surface of RGD-directed AAV capsid engineering. <i>Molecular Therapy</i> , <b>2021</b> , 29, 3099-3100	11.7	1
72	The CRTC1-MAML2 fusion is the major oncogenic driver in mucoepidermoid carcinoma. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	13
71	Mixture interactions at mammalian olfactory receptors are dependent on the cellular environment. <i>Scientific Reports</i> , <b>2021</b> , 11, 9278	4.9	0
70	Applying machine learning to predict viral assembly for adeno-associated virus capsid libraries. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2021</b> , 20, 276-286	6.4	9
69	A comprehensive study of a 29-capsid AAV library in a non-human primate central nervous system. <i>Molecular Therapy</i> , <b>2021</b> , 29, 2806-2820	11.7	7
68	Y1 receptors modulate taste-related behavioral responsiveness in male mice to prototypical gustatory stimuli. <i>Hormones and Behavior</i> , <b>2021</b> , 136, 105056	3.7	0
67	Engineering and Selection of a Novel AAV3B Variant with High Hepatocyte Tropism and Reduced Seroreactivity. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2020</b> , 19, 347-361	6.4	9
66	Removal of Endotoxin from rAAV Samples Using a Simple Detergent-Based Protocol. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2019</b> , 15, 112-119	6.4	5
65	Taste Receptor Cells in Mice Express Receptors for the Hormone Adiponectin. <i>Chemical Senses</i> , <b>2019</b> , 44, 409-422	4.8	7
64	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> , <b>2019</b> , 13, 279-289	6.4	17
63	Helper-free Production of Laboratory Grade AAV and Purification by Iodixanol Density Gradient Centrifugation. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2018</b> , 10, 1-7	6.4	26
62	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> , <b>2017</b> , 28, 15-22	4.9	13
61	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> , <b>2017</b> , 5, 142-152	6.4	6
60	Direct Head-to-Head Evaluation of Recombinant Adeno-associated Viral Vectors Manufactured in Human versus Insect Cells. <i>Molecular Therapy</i> , <b>2017</b> , 25, 2661-2675	11.7	32
59	Evaluation of engineered AAV capsids for hepatic factor IX gene transfer in murine and canine models. <i>Journal of Translational Medicine</i> , <b>2017</b> , 15, 94	8.5	15
58	Altering Tropism of rAAV by Directed Evolution. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1382, 151-73	1.4	10
57	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> , <b>2016</b> , 11, e0148155	3.7	16

56	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> , <b>2016</b> , 11, e0154779	3.7	25
55	Snord116 is critical in the regulation of food intake and body weight. <i>Scientific Reports</i> , <b>2016</b> , 6, 18614	4.9	54
54	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> , <b>2015</b> , 26, 688-97	4.8	31
53	E Pluribus Unum: 50 Years of Research, Millions of Viruses, and One Goal--Tailored Acceleration of AAV Evolution. <i>Molecular Therapy</i> , <b>2015</b> , 23, 1819-31	11.7	66
52	High-accuracy biodistribution analysis of adeno-associated virus variants by double barcode sequencing. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2015</b> , 2, 15041	6.4	20
51	Adeno-Associated Virus Type 2 and Hepatocellular Carcinoma?. <i>Human Gene Therapy</i> , <b>2015</b> , 26, 779-81	4.8	52
50	OneBac: platform for scalable and high-titer production of adeno-associated virus serotype 1-12 vectors for gene therapy. <i>Human Gene Therapy</i> , <b>2014</b> , 25, 212-22	4.8	90
49	Vector design Tour de Force: integrating combinatorial and rational approaches to derive novel adeno-associated virus variants. <i>Molecular Therapy</i> , <b>2014</b> , 22, 1900-9	11.7	42
48	A simplified purification protocol for recombinant adeno-associated virus vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2014</b> , 1, 14034	6.4	40
47	Identification of low-expressing transcripts of the NPY receptors family in the murine lingual epithelia. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1211, 213-28	1.4	2
46	Salivary peptide tyrosine-tyrosine 3-36 modulates ingestive behavior without inducing taste aversion. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 18368-80	6.6	12
45	Modulation of taste responsiveness by the satiation hormone peptide YY. <i>FASEB Journal</i> , <b>2013</b> , 27, 5022-33	6.3	35
44	Structural insights into adeno-associated virus serotype 5. <i>Journal of Virology</i> , <b>2013</b> , 87, 11187-99	6.6	51
43	High-efficiency transduction of human monocyte-derived dendritic cells by capsid-modified recombinant AAV2 vectors. <i>Vaccine</i> , <b>2012</b> , 30, 3908-17	4.1	34
42	Distribution of Y-receptors in murine lingual epithelia. <i>PLoS ONE</i> , <b>2012</b> , 7, e46358	3.7	24
41	Structural insight into the unique properties of adeno-associated virus serotype 9. <i>Journal of Virology</i> , <b>2012</b> , 86, 6947-58	6.6	123
40	Neutralizing antibodies against AAV serotypes 1, 2, 6, and 9 in sera of commonly used animal models. <i>Molecular Therapy</i> , <b>2012</b> , 20, 73-83	11.7	106
39	Development of Novel Recombinant AAV Vectors and Strategies for the Potential Gene Therapy of Hemophilia. <i>Journal of Genetic Syndromes &amp; Gene Therapy</i> , <b>2012</b> , S1,		7

38	Salivary PYY: a putative bypass to satiety. <i>PLoS ONE</i> , <b>2011</b> , 6, e26137	3.7	41
37	Gene Therapy for Obesity and Diabetes <b>2010</b> , 251-260		
36	High-efficiency transduction and correction of murine hemophilia B using AAV2 vectors devoid of multiple surface-exposed tyrosines. <i>Molecular Therapy</i> , <b>2010</b> , 18, 2048-56	11.7	103
35	An animal model of PDH deficiency using AAV8-siRNA vector-mediated knockdown of pyruvate dehydrogenase E1 $\alpha$ . <i>Molecular Genetics and Metabolism</i> , <b>2010</b> , 101, 183-91	3.7	13
34	Targeting Saliva for the Purpose of Modulating Feeding Behavior. <i>FASEB Journal</i> , <b>2010</b> , 24, lb279	0.9	
33	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> , <b>2009</b> , 106, 5059-64	11.5	58
32	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 9. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2009</b> , 65, 715-8		23
31	High-efficiency transduction of the mouse retina by tyrosine-mutant AAV serotype vectors. <i>Molecular Therapy</i> , <b>2009</b> , 17, 463-71	11.7	299
30	Conditional, genetic disruption of ciliary neurotrophic factor receptors reveals a role in adult motor neuron survival. <i>European Journal of Neuroscience</i> , <b>2008</b> , 27, 2830-7	3.5	16
29	Conditional, genetic disruption of ciliary neurotrophic factor receptors reveals a role in adult motor neuron survival. <i>European Journal of Neuroscience</i> , <b>2008</b> , 28, 238-238	3.5	
28	Tyrosine-phosphorylation of AAV2 vectors and its consequences on viral intracellular trafficking and transgene expression. <i>Virology</i> , <b>2008</b> , 381, 194-202	3.6	167
27	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> , <b>2008</b> , 105, 7827-32	11.5	422
26	Optimization of recombinant adeno-associated viral vectors for human beta-globin gene transfer and transgene expression. <i>Human Gene Therapy</i> , <b>2008</b> , 19, 365-75	4.8	10
25	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> , <b>2008</b> , 57, 614-22	0.9	28
24	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 7. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2007</b> , 63, 1073-6		18
23	Ectopic expression of Wnt10b decreases adiposity and improves glucose homeostasis in obese rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 293, E726-36	6	30
22	Structure of adeno-associated virus serotype 8, a gene therapy vector. <i>Journal of Virology</i> , <b>2007</b> , 81, 12260-71	6.71	163
21	A dual role of EGFR protein tyrosine kinase signaling in ubiquitination of AAV2 capsids and viral second-strand DNA synthesis. <i>Molecular Therapy</i> , <b>2007</b> , 15, 1323-30	11.7	105

20	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2006</b> , 62, 1271-4		38
19	Successful production of pseudotyped rAAV vectors using a modified baculovirus expression system. <i>Molecular Therapy</i> , <b>2005</b> , 12, 1217-25	11.7	97
18	Production, purification, crystallization and preliminary X-ray analysis of adeno-associated virus serotype 8. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2005</b> , 61, 558-61		22
17	Production, purification, crystallization and preliminary X-ray structural studies of adeno-associated virus serotype 5. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , <b>2005</b> , 61, 917-21		36
16	Efficient transduction of vascular endothelial cells with recombinant adeno-associated virus serotype 1 and 5 vectors. <i>Human Gene Therapy</i> , <b>2005</b> , 16, 235-47	4.8	77
15	Gene therapy for obesity. <i>Expert Opinion on Biological Therapy</i> , <b>2005</b> , 5, 347-57	5.4	3
14	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> , <b>2004</b> , 78, 6595-609	6.6	145
13	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> , <b>2004</b> , 10, 302-17	11.7	598
12	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> , <b>2003</b> , 100, 14217-22	11.5	204
11	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> , <b>2003</b> , 285, R1011-20	3.2	51
10	Leptin-induced leptin resistant rats exhibit enhanced responses to the melanocortin agonist MT II. <i>Neuropharmacology</i> , <b>2003</b> , 45, 211-9	5.5	42
9	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> , <b>2003</b> , 77, 6995-7006	6.6	259
8	Transduction of human and mouse pancreatic islet cells using a bicistronic recombinant adeno-associated viral vector. <i>Molecular Therapy</i> , <b>2002</b> , 5, 154-60	11.7	25
7	Leptin-induced leptin resistance reveals separate roles for the anorexic and thermogenic responses in weight maintenance. <i>Endocrinology</i> , <b>2002</b> , 143, 3026-35	4.8	64
6	Streamlined large-scale production of recombinant adeno-associated virus (rAAV) vectors. <i>Methods in Enzymology</i> , <b>2002</b> , 346, 413-30	1.7	31
5	Production and purification of serotype 1, 2, and 5 recombinant adeno-associated viral vectors. <i>Methods</i> , <b>2002</b> , 28, 158-67	4.6	460
4	Production and purification of recombinant adeno-associated virus. <i>Methods in Enzymology</i> , <b>2000</b> , 316, 743-61	1.7	130
3	Neuron-specific transduction in the rat septohippocampal or nigrostriatal pathway by recombinant adeno-associated virus vectors. <i>Experimental Neurology</i> , <b>1998</b> , 150, 183-94	5.7	205

- 2 Retroviral transfer and expression of a humanized, red-shifted green fluorescent protein gene into human tumor cells. *Nature Biotechnology*, **1996**, 14, 610-4 44.5 83
- 1 Leptin-Induced Leptin Resistance Reveals Separate Roles for the Anorexic and Thermogenic Responses in Weight Maintenance 17