

# Aravind Asokan

## List of Publications by Year in descending order

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62  
papers

5,060  
citations

168829

31  
h-index

145109

60  
g-index

63  
all docs

63  
docs citations

63  
times ranked

7204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structurally Mapping Antigenic Epitopes of Adeno-associated Virus 9: Development of Antibody Escape Variants. <i>Journal of Virology</i> , 2022, 96, JVI0125121.	1.5	11
2	Targeted Delivery for Cardiac Regeneration: Comparison of Intra-coronary Infusion and Intra-myocardial Injection in Porcine Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 833335.	1.1	7
3	Epigenetic Silencing of Recombinant Adeno-associated Virus Genomes by NP220 and the HUSH Complex. <i>Journal of Virology</i> , 2022, 96, JVI0203921.	1.5	20
4	Engineering highly efficient backsplicing and translation of synthetic circRNAs. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 23, 821-834.	2.3	36
5	Adeno-Associated Virus-Mediated Gene Therapy in the Mashl <sup>o</sup> Mouse Model of Alternating Hemiplegia of Childhood. <i>Human Gene Therapy</i> , 2021, 32, 405-419.	1.4	9
6	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	13.7	84
7	AAV-CNS matters turn from gray to white. <i>Molecular Therapy</i> , 2021, 29, 1659-1660.	3.7	1
8	Characterization of liver GSD IX <sup>Δ3</sup> pathophysiology in a novel Phkg2 <sup>-/-</sup> mouse model. <i>Molecular Genetics and Metabolism</i> , 2021, 133, 269-276.	0.5	4
9	Transgenic mice for in vivo epigenome editing with CRISPR-based systems. <i>Nature Methods</i> , 2021, 18, 965-974.	9.0	56
10	Full-length dystrophin restoration via targeted exon integration by AAV-CRISPR in a humanized mouse model of Duchenne muscular dystrophy. <i>Molecular Therapy</i> , 2021, 29, 3243-3257.	3.7	27
11	Receptor Switching in Newly Evolved Adeno-associated Viruses. <i>Journal of Virology</i> , 2021, 95, e0058721.	1.5	12
12	Safe and Effective In Vivo Targeting and Gene Editing in Hematopoietic Stem Cells: Strategies for Accelerating Development. <i>Human Gene Therapy</i> , 2021, 32, 31-42.	1.4	15
13	The membrane associated accessory protein is an adeno-associated viral egress factor. <i>Nature Communications</i> , 2021, 12, 6239.	5.8	30
14	Abstract 12181: Targeted Intra-Coronary Delivery versus Intra-Myocardial Injection of Therapeutics for Myocardial Recovery: A Nanoparticle Image Guided Porcine Study. <i>Circulation</i> , 2021, 144, .	1.6	0
15	Optimizing delivery for efficient cardiac reprogramming. <i>Biochemical and Biophysical Research Communications</i> , 2020, 533, 9-16.	1.0	15
16	Coevolution of Adeno-associated Virus Capsid Antigenicity and Tropism through a Structure-Guided Approach. <i>Journal of Virology</i> , 2020, 94, .	1.5	38
17	The Golgi Calcium ATPase Pump Plays an Essential Role in Adeno-associated Virus Trafficking and Transduction. <i>Journal of Virology</i> , 2020, 94, .	1.5	17
18	Intravital imaging of mouse embryos. <i>Science</i> , 2020, 368, 181-186.	6.0	70

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19	Gangliosides are essential endosomal receptors for quasi-enveloped and naked hepatitis A virus. <i>Nature Microbiology</i> , 2020, 5, 1069-1078.	5.9	45
20	Rescuing AAV gene transfer from neutralizing antibodies with an IgG-degrading enzyme. <i>JCI Insight</i> , 2020, 5, .	2.3	77
21	Ring finger protein 121 is a potent regulator of adeno-associated viral genome transcription. <i>PLoS Pathogens</i> , 2019, 15, e1007988.	2.1	22
22	A CRISPR Screen Identifies the Cell Polarity Determinant Crumbs 3 as an Adeno-associated Virus Restriction Factor in Hepatocytes. <i>Journal of Virology</i> , 2019, 93, .	1.5	14
23	Vaccine-Mediated Inhibition of the Transporter Associated with Antigen Processing Is Insufficient To Induce Major Histocompatibility Complex E-Restricted CD8 <sup>+</sup> T Cells in Nonhuman Primates. <i>Journal of Virology</i> , 2019, 93, .	1.5	5
24	Modulation of Sialic Acid Dependence Influences the Central Nervous System Transduction Profile of Adeno-associated Viruses. <i>Journal of Virology</i> , 2019, 93, .	1.5	55
25	Long-term evaluation of AAV-CRISPR genome editing for Duchenne muscular dystrophy. <i>Nature Medicine</i> , 2019, 25, 427-432.	15.2	303
26	CRISPR genome editing in stem cells turns to gold. <i>Nature Materials</i> , 2019, 18, 1038-1039.	13.3	4
27	Mapping and Engineering Functional Domains of the Assembly-Activating Protein of Adeno-associated Viruses. <i>Journal of Virology</i> , 2018, 92, .	1.5	15
28	Mapping the Structural Determinants Required for AAVrh.10 Transport across the Blood-Brain Barrier. <i>Molecular Therapy</i> , 2018, 26, 510-523.	3.7	60
29	Physical positioning markedly enhances brain transduction after intrathecal AAV9 infusion. <i>Science Advances</i> , 2018, 4, eaau9859.	4.7	28
30	Tissue-Dependent Expression and Translation of Circular RNAs with Recombinant AAV Vectors In Vivo. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 89-98.	2.3	89
31	Systemic and Persistent Muscle Gene Expression in Rhesus Monkeys with a Liver De-Targeted Adeno-Associated Virus Vector. <i>Human Gene Therapy</i> , 2017, 28, 385-391.	1.4	21
32	Inducing circular RNA formation using the CRISPR endoribonuclease Csy4. <i>Rna</i> , 2017, 23, 619-627.	1.6	19
33	Structure-guided evolution of antigenically distinct adeno-associated virus variants for immune evasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4812-E4821.	3.3	152
34	Primary Cilia Signaling Shapes the Development of Interneuronal Connectivity. <i>Developmental Cell</i> , 2017, 42, 286-300.e4.	3.1	90
35	Hepatocytic expression of human sodium-taurocholate cotransporting polypeptide enables hepatitis B virus infection of macaques. <i>Nature Communications</i> , 2017, 8, 2146.	5.8	59
36	Glymphatic fluid transport controls paravascular clearance of AAV vectors from the brain. <i>JCI Insight</i> , 2016, 1, e88034.	2.3	52

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37	AAV Gene Therapy for MPS1-associated Corneal Blindness. <i>Scientific Reports</i> , 2016, 6, 22131.	1.6	40
38	Characterization of the Adeno-Associated Virus 1 and 6 Sialic Acid Binding Site. <i>Journal of Virology</i> , 2016, 90, 5219-5230.	1.5	63
39	CNS-restricted Transduction and CRISPR/Cas9-mediated Gene Deletion with an Engineered AAV Vector. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e338.	2.3	56
40	Generation and characterization of anti-Adeno-associated virus serotype 8 (AAV8) and anti-AAV9 monoclonal antibodies. <i>Journal of Virological Methods</i> , 2016, 236, 105-110.	1.0	22
41	Cellular transduction mechanisms of adeno-associated viral vectors. <i>Current Opinion in Virology</i> , 2016, 21, 54-60.	2.6	42
42	Engineering AAV receptor footprints for gene therapy. <i>Current Opinion in Virology</i> , 2016, 18, 89-96.	2.6	32
43	In vivo genome editing improves muscle function in a mouse model of Duchenne muscular dystrophy. <i>Science</i> , 2016, 351, 403-407.	6.0	957
44	Development of Patient-specific AAV Vectors After Neutralizing Antibody Selection for Enhanced Muscle Gene Transfer. <i>Molecular Therapy</i> , 2016, 24, 53-65.	3.7	45
45	An siRNA Screen Identifies the U2 snRNP Spliceosome as a Host Restriction Factor for Recombinant Adeno-associated Viruses. <i>PLoS Pathogens</i> , 2015, 11, e1005082.	2.1	35
46	Strategies to circumvent humoral immunity to adeno-associated viral vectors. <i>Expert Opinion on Biological Therapy</i> , 2015, 15, 845-855.	1.4	49
47	Functional Analysis of the Putative Integrin Recognition Motif on Adeno-associated Virus 9. <i>Journal of Biological Chemistry</i> , 2015, 290, 1496-1504.	1.6	18
48	Unique Glycan Signatures Regulate Adeno-Associated Virus Tropism in the Developing Brain. <i>Journal of Virology</i> , 2015, 89, 3976-3987.	1.5	13
49	Controlling mRNA stability and translation with the CRISPR endoribonuclease Csy4. <i>Rna</i> , 2015, 21, 1921-1930.	1.6	23
50	Biology of adeno-associated viral vectors in the central nervous system. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 76.	1.4	137
51	Engraftment of a Galactose Receptor Footprint onto Adeno-associated Viral Capsids Improves Transduction Efficiency. <i>Journal of Biological Chemistry</i> , 2013, 288, 28814-28823.	1.6	77
52	Multiple Roles for Sialylated Glycans in Determining the Cardiopulmonary Tropism of Adeno-Associated Virus 4. <i>Journal of Virology</i> , 2013, 87, 13206-13213.	1.5	32
53	An Emerging Adeno-Associated Viral Vector Pipeline for Cardiac Gene Therapy. <i>Human Gene Therapy</i> , 2013, 24, 906-913.	1.4	31
54	The AAV Vector Toolkit: Poised at the Clinical Crossroads. <i>Molecular Therapy</i> , 2012, 20, 699-708.	3.7	388

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55	Human Galectin 3 Binding Protein Interacts with Recombinant Adeno-Associated Virus Type 6. <i>Journal of Virology</i> , 2012, 86, 6620-6631.	1.5	52
56	Tyrosine Cross-Linking Reveals Interfacial Dynamics in Adeno-Associated Viral Capsids during Infection. <i>ACS Chemical Biology</i> , 2012, 7, 1059-1066.	1.6	22
57	Terminal N-Linked Galactose Is the Primary Receptor for Adeno-associated Virus 9. <i>Journal of Biological Chemistry</i> , 2011, 286, 13532-13540.	1.6	213
58	Reengineering a receptor footprint of adeno-associated virus enables selective and systemic gene transfer to muscle. <i>Nature Biotechnology</i> , 2010, 28, 79-82.	9.4	220
59	Reengineered AAV vectors: old dog, new tricks. <i>Discovery Medicine</i> , 2010, 9, 399-403.	0.5	15
60	Adeno-associated Virus Serotypes: Vector Toolkit for Human Gene Therapy. <i>Molecular Therapy</i> , 2006, 14, 316-327.	3.7	744
61	Adeno-Associated Virus Type 2 Contains an Integrin $\alpha 5 \beta 1$ Binding Domain Essential for Viral Cell Entry. <i>Journal of Virology</i> , 2006, 80, 8961-8969.	1.5	164
62	Strategies for the Cytosolic Delivery of Macromolecules: An Overview. , 0, , 279-296.		1