

Mavis Agbandje-McKenna

List of Publications by Year in descending order

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126
papers

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36203

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#	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	Characterization of the Serpentine Adeno-Associated Virus (SAAV) Capsid Structure: Receptor Interactions and Antigenicity. <i>Journal of Virology</i> , 2022, 96, e0033522.	1.5	5
3	Parvovirus Capsid-Antibody Complex Structures Reveal Conservation of Antigenic Epitopes Across the Family. <i>Viral Immunology</i> , 2021, 34, 3-17.	0.6	19
4	Completion of the AAV Structural Atlas: Serotype Capsid Structures Reveals Clade-Specific Features. <i>Viruses</i> , 2021, 13, 101.	1.5	46
5	Characterization of the GBoV1 Capsid and Its Antibody Interactions. <i>Viruses</i> , 2021, 13, 330.	1.5	6
6	Adeno-associated Virus (AAV) Capsid Chimeras with Enhanced Infectivity Reveal a Core Element in the AAV Genome Critical for both Cell Transduction and Capsid Assembly. <i>Journal of Virology</i> , 2021, 95, .	1.5	9
7	Effects of Altering Heparan Sulfate Proteoglycan Binding and Capsid Hydrophilicity on Retinal Transduction by Adeno-associated Virus. <i>Journal of Virology</i> , 2021, 95, .	1.5	2
8	pH-Induced Conformational Changes of Human Bocavirus Capsids. <i>Journal of Virology</i> , 2021, 95, .	1.5	4
9	Adeno-associated virus capsid assembly is divergent and stochastic. <i>Nature Communications</i> , 2021, 12, 1642.	5.8	99
10	Structural Study of Aavrh.10 Receptor and Antibody Interactions. <i>Journal of Virology</i> , 2021, 95, e0124921.	1.5	8
11	I Am Here: It Took a Global Village. <i>Annual Review of Virology</i> , 2021, 8, 1-21.	3.0	3
12	Improved Genome Packaging Efficiency of Adeno-associated Virus Vectors Using Rep Hybrids. <i>Journal of Virology</i> , 2021, 95, e0077321.	1.5	11
13	Receptor Switching in Newly Evolved Adeno-associated Viruses. <i>Journal of Virology</i> , 2021, 95, e0058721.	1.5	12
14	Adeno-associated Virus 9 Structural Rearrangements Induced by Endosomal Trafficking pH and Glycan Attachment. <i>Journal of Virology</i> , 2021, 95, e0084321.	1.5	23
15	Comparative structural, biophysical, and receptor binding study of true type and wild type AAV2. <i>Journal of Structural Biology</i> , 2021, 213, 107795.	1.3	3
16	Structure comparison of the chimeric AAV2.7m8 vector with parental AAV2. <i>Journal of Structural Biology</i> , 2020, 209, 107433.	1.3	20
17	Characterization of an intermolecular quaternary interaction between discrete segments of the <i>Streptococcus mutans</i> adhesin P1 by NMR spectroscopy. <i>FEBS Journal</i> , 2020, 287, 2597-2611.	2.2	8
18	Comparative Analysis of the Capsid Structures of AAVrh.10, AAVrh.39, and AAV8. <i>Journal of Virology</i> , 2020, 94, .	1.5	38

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19	Geminivirus structure and assembly. <i>Advances in Virus Research</i> , 2020, 108, 1-32.	0.9	10
20	Coevolution of Adeno-associated Virus Capsid Antigenicity and Tropism through a Structure-Guided Approach. <i>Journal of Virology</i> , 2020, 94, .	1.5	38
21	Molecular biology and structure of a novel penaeid shrimp densovirus elucidate convergent parvoviral host capsid evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20211-20222.	3.3	13
22	Evolution of dependoparvoviruses across geological timescalesâ€™ implications for design of AAV-based gene therapy vectors. <i>Virus Evolution</i> , 2020, 6, veaa043.	2.2	10
23	Restoring the natural tropism of AAV2 vectors for human liver. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	41
24	Characterization of AAV-Specific Affinity Ligands: Consequences for Vector Purification and Development Strategies. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 19, 362-373.	1.8	29
25	Impact of Natural or Synthetic Singletons in the Capsid of Human Bocavirus 1 on Particle Infectivity and Immunoreactivity. <i>Journal of Virology</i> , 2020, 94, .	1.5	10
26	Structural characterization of a bat Adeno-associated virus capsid. <i>Journal of Structural Biology</i> , 2020, 211, 107547.	1.3	10
27	Structural Characterization of Cuta- and Tusavirus: Insight into Protoparvoviruses Capsid Morphology. <i>Viruses</i> , 2020, 12, 653.	1.5	9
28	Attenuation of Heparan Sulfate Proteoglycan Binding Enhances InÂVivo Transduction of Human Primary Hepatocytes with AAV2. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 1139-1154.	1.8	29
29	Site-Directed Mutagenesis Improves the Transduction Efficiency of Capsid Library-Derived Recombinant AAV Vectors. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 545-555.	1.8	21
30	Adeno-Associated Virus (AAV) Capsid Stability and Liposome Remodeling During Endo/Lysosomal pH Trafficking. <i>Viruses</i> , 2020, 12, 668.	1.5	32
31	Pre-arrayed Pan-AAV Peptide Display Libraries for Rapid Single-Round Screening. <i>Molecular Therapy</i> , 2020, 28, 1016-1032.	3.7	46
32	Enhanced Transduction of Human Hematopoietic Stem Cells by AAV6 Vectors: Implications in Gene Therapy and Genome Editing. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 20, 451-458.	2.3	17
33	An Ancient Lineage of Highly Divergent Parvoviruses Infects both Vertebrate and Invertebrate Hosts. <i>Viruses</i> , 2019, 11, 525.	1.5	64
34	Twenty-Five Years of Structural Parvovirology. <i>Viruses</i> , 2019, 11, 362.	1.5	122
35	Adeno-Associated Virus VP1u Exhibits Protease Activity. <i>Viruses</i> , 2019, 11, 399.	1.5	12
36	Protease-Activatable Adeno-Associated Virus Vector for Gene Delivery to Damaged Heart Tissue. <i>Molecular Therapy</i> , 2019, 27, 611-622.	3.7	33

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37	High-Resolution Structural Characterization of a New Adeno-associated Virus Serotype 5 Antibody Epitope toward Engineering Antibody-Resistant Recombinant Gene Delivery Vectors. <i>Journal of Virology</i> , 2019, 93, .	1.5	37
38	ICTV Virus Taxonomy Profile: Parvoviridae. <i>Journal of General Virology</i> , 2019, 100, 367-368.	1.3	312
39	A Rationally Engineered Capsid Variant of AAV9 for Systemic CNS-Directed and Peripheral Tissue-Detargeted Gene Delivery in Neonates. <i>Molecular Therapy - Methods and Clinical Development</i> , 2018, 9, 234-246.	1.8	42
40	AAV6 K531 serves a dual function in selective receptor and antibody ADK6 recognition. <i>Virology</i> , 2018, 518, 369-376.	1.1	20
41	Structural Characterization of Emerging Pathogenic Human Parvoviruses. <i>Microscopy and Microanalysis</i> , 2018, 24, 1214-1215.	0.2	2
42	Endogenous amdoparvovirus-related elements reveal insights into the biology and evolution of vertebrate parvoviruses. <i>Virus Evolution</i> , 2018, 4, vey026.	2.2	19
43	Assembly and disassembly intermediates of maize streak geminivirus. <i>Virology</i> , 2018, 525, 224-236.	1.1	9
44	Atomic Resolution Structures of Human Bufaviruses Determined by Cryo-Electron Microscopy. <i>Viruses</i> , 2018, 10, 22.	1.5	20
45	Sub-2Å... Ewald curvature corrected structure of an AAV2 capsid variant. <i>Nature Communications</i> , 2018, 9, 3628.	5.8	73
46	A novel adeno-associated virus capsid with enhanced neurotropism corrects a lysosomal transmembrane enzyme deficiency. <i>Brain</i> , 2018, 141, 2014-2031.	3.7	80
47	Atomic structure of a rationally engineered gene delivery vector, AAV2.5. <i>Journal of Structural Biology</i> , 2018, 203, 236-241.	1.3	24
48	Creating an arsenal of Adeno-associated virus (AAV) gene delivery stealth vehicles. <i>PLoS Pathogens</i> , 2018, 14, e1006929.	2.1	22
49	Optimizing the Targeting of Mouse Parvovirus 1 to Murine Melanoma Selects for Recombinant Genomes and Novel Mutations in the Viral Capsid Gene. <i>Viruses</i> , 2018, 10, 54.	1.5	2
50	OneBac 2.0: <i>Sf</i> 9 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.	2.1	24
51	Rationally Engineered AAV Capsids Improve Transduction and Volumetric Spread in the CNS. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 184-197.	2.3	48
52	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
53	Understanding capsid assembly and genome packaging for adeno-associated viruses. <i>Future Virology</i> , 2017, 12, 283-297.	0.9	25
54	Structural Insights into Human Bocaparvoviruses. <i>Journal of Virology</i> , 2017, 91, .	1.5	37

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55	The Good That Viruses Do. <i>Annual Review of Virology</i> , 2017, 4, iii-v.	3.0	17
56	Thermal Stability as a Determinant of AAV Serotype Identity. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 6, 171-182.	1.8	95
57	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.	3.7	59
58	Parvovirus Capsid Structures Required for Infection: Mutations Controlling Receptor Recognition and Protease Cleavages. <i>Journal of Virology</i> , 2017, 91, .	1.5	23
59	Atomic Resolution Structure of the Oncolytic Parvovirus Lull3 by Electron Microscopy and 3D Image Reconstruction. <i>Viruses</i> , 2017, 9, 321.	1.5	6
60	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
61	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
62	Cryoannealing-induced space-group transition of crystals of the carbonic anhydrase psCA3. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 573-577.	0.4	5
63	Cryo-electron Microscopy Reconstruction and Stability Studies of the Wild Type and the R432A Variant of Adeno-associated Virus Type 2 Reveal that Capsid Structural Stability Is a Major Factor in Genome Packaging. <i>Journal of Virology</i> , 2016, 90, 8542-8551.	1.5	39
64	The Structure of Carbonic Anhydrase IX Is Adapted for Low-pH Catalysis. <i>Biochemistry</i> , 2016, 55, 4642-4653.	1.2	51
65	Mutants at the 2-Fold Interface of Adeno-associated Virus Type 2 (AAV2) Structural Proteins Suggest a Role in Viral Transcription for AAV Capsids. <i>Journal of Virology</i> , 2016, 90, 7196-7204.	1.5	27
66	Impact of Heparan Sulfate Binding on Transduction of Retina by Recombinant Adeno-Associated Virus Vectors. <i>Journal of Virology</i> , 2016, 90, 4215-4231.	1.5	61
67	Mapping Antigenic Epitopes on the Human Bocavirus Capsid. <i>Journal of Virology</i> , 2016, 90, 4670-4680.	1.5	28
68	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
69	Identification and Mutagenesis of the Adeno-Associated Virus 5 Sialic Acid Binding Region. <i>Journal of Virology</i> , 2015, 89, 1660-1672.	1.5	41
70	Structure of an Enteric Pathogen, Bovine Parvovirus. <i>Journal of Virology</i> , 2015, 89, 2603-2614.	1.5	39
71	Site-Directed Mutagenesis of Surface-Exposed Lysine Residues Leads to Improved Transduction by AAV2, But Not AAV8, Vectors in Murine Hepatocytes <i>In Vivo</i> . <i>Human Gene Therapy Methods</i> , 2015, 26, 211-220.	2.1	27
72	Structural and biophysical characterization of the Î±-carbonic anhydrase from the gammaproteobacterium <i>Thiomicrospira crunogena</i> XCL-2: insights into engineering thermostable enzymes for CO ₂ sequestration. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 1745-1756.	2.5	16

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73	Parvovirus Family Conundrum: What Makes a Killer?. Annual Review of Virology, 2015, 2, 425-450.	3.0	53
74	Structure of neurotropic adeno-associated virus AAVrh.8. Journal of Structural Biology, 2015, 192, 21-36.	1.3	47
75	Adeno-Associated Virus Serotype 1 (AAV1)- and AAV5-Antibody Complex Structures Reveal Evolutionary Commonalities in Parvovirus Antigenic Reactivity. Journal of Virology, 2015, 89, 1794-1808.	1.5	64
76	Parvovirus glycan interactions. Current Opinion in Virology, 2014, 7, 108-118.	2.6	101
77	Diversity of environmental single-stranded DNA phages revealed by PCR amplification of the partial major capsid protein. ISME Journal, 2014, 8, 2093-2103.	4.4	71
78	Mapping the AAV Capsid Host Antibody Response toward the Development of Second Generation Gene Delivery Vectors. Frontiers in Immunology, 2014, 5, 9.	2.2	93
79	Adeno-Associated Virus Capsid Proteins May Play a Role in Transcription and Second-Strand Synthesis of Recombinant Genomes. Journal of Virology, 2014, 88, 1071-1079.	1.5	53
80	The family Parvoviridae. Archives of Virology, 2014, 159, 1239-1247.	0.9	555
81	Defining the Stoichiometry and Cargo Load of Viral and Bacterial Nanoparticles by Orbitrap Mass Spectrometry. Journal of the American Chemical Society, 2014, 136, 7295-7299.	6.6	134
82	OneBac: Platform for Scalable and High-Titer Production of Adeno-Associated Virus Serotype 12 Vectors for Gene Therapy. Human Gene Therapy, 2014, 25, 212-222.	1.4	117
83	Gene Transfer Properties and Structural Modeling of Human Stem Cell-derived AAV. Molecular Therapy, 2014, 22, 1625-1634.	3.7	48
84	Vector Design Tour de Force: Integrating Combinatorial and Rational Approaches to Derive Novel Adeno-associated Virus Variants. Molecular Therapy, 2014, 22, 1900-1909.	3.7	59
85	The structure of AAVrh32.33, a novel gene delivery vector. Journal of Structural Biology, 2014, 186, 308-317.	1.3	31
86	A simplified purification protocol for recombinant adeno-associated virus vectors. Molecular Therapy - Methods and Clinical Development, 2014, 1, 14034.	1.8	56
87	Profiling of Glycan Receptors for Minute Virus of Mice in Permissive Cell Lines Towards Understanding the Mechanism of Cell Recognition. PLoS ONE, 2014, 9, e86909.	1.1	14
88	Adeno-associated virus structural biology as a tool in vector development. Future Virology, 2013, 8, 1183-1199.	0.9	68
89	Structure and Dynamics of Adeno-Associated Virus Serotype 1 VP1-Unique N-Terminal Domain and Its Role in Capsid Trafficking. Journal of Virology, 2013, 87, 4974-4984.	1.5	151
90	Engraftment of a Galactose Receptor Footprint onto Adeno-associated Viral Capsids Improves Transduction Efficiency. Journal of Biological Chemistry, 2013, 288, 28814-28823.	1.6	77

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91	Structural Insights into Adeno-Associated Virus Serotype 5. <i>Journal of Virology</i> , 2013, 87, 11187-11199.	1.5	69
92	Capsid Antibodies to Different Adeno-Associated Virus Serotypes Bind Common Regions. <i>Journal of Virology</i> , 2013, 87, 9111-9124.	1.5	102
93	Comparative Analysis of Adeno-Associated Virus Capsid Stability and Dynamics. <i>Journal of Virology</i> , 2013, 87, 13150-13160.	1.5	114
94	Characterization of Naturally-Occurring Humoral Immunity to AAV in Sheep. <i>PLoS ONE</i> , 2013, 8, e75142.	1.1	14
95	The Threefold Protrusions of Adeno-Associated Virus Type 8 Are Involved in Cell Surface Targeting as Well as Postattachment Processing. <i>Journal of Virology</i> , 2012, 86, 9396-9408.	1.5	40
96	Structural Insight into the Unique Properties of Adeno-Associated Virus Serotype 9. <i>Journal of Virology</i> , 2012, 86, 6947-6958.	1.5	163
97	Evidence for pH-Dependent Protease Activity in the Adeno-Associated Virus Capsid. <i>Journal of Virology</i> , 2012, 86, 11877-11885.	1.5	53
98	Identification of the Galactose Binding Domain of the Adeno-Associated Virus Serotype 9 Capsid. <i>Journal of Virology</i> , 2012, 86, 7326-7333.	1.5	101
99	Parvoviruses: structure and infection. <i>Future Virology</i> , 2012, 7, 253-278.	0.9	49
100	Random Insertion of mCherry Into VP3 Domain of Adeno-associated Virus Yields Fluorescent Capsids With no Loss of Infectivity. <i>Molecular Therapy - Nucleic Acids</i> , 2012, 1, e54.	2.3	43
101	Examining the cross-reactivity and neutralization mechanisms of a panel of mAbs against adeno-associated virus serotypes 1 and 5. <i>Journal of General Virology</i> , 2012, 93, 347-355.	1.3	43
102	Phase 1 Gene Therapy for Duchenne Muscular Dystrophy Using a Translational Optimized AAV Vector. <i>Molecular Therapy</i> , 2012, 20, 443-455.	3.7	328
103	AAV Capsid Structure and Cell Interactions. <i>Methods in Molecular Biology</i> , 2012, 807, 47-92.	0.4	152
104	Mapping a Neutralizing Epitope onto the Capsid of Adeno-Associated Virus Serotype 8. <i>Journal of Virology</i> , 2012, 86, 7739-7751.	1.5	86
105	Engineering Liver-detargeted AAV9 Vectors for Cardiac and Musculoskeletal Gene Transfer. <i>Molecular Therapy</i> , 2011, 19, 1070-1078.	3.7	179
106	Structural Studies of Adeno-Associated Virus Serotype 8 Capsid Transitions Associated with Endosomal Trafficking. <i>Journal of Virology</i> , 2011, 85, 11791-11799.	1.5	78
107	The AAV9 receptor and its modification to improve in vivo lung gene transfer in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2427-2435.	3.9	150
108	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

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109	Human Hepatocyte Growth Factor Receptor Is a Cellular Coreceptor for Adeno-Associated Virus Serotype 3. <i>Human Gene Therapy</i> , 2010, 21, 1741-1747.	1.4	82
110	Human Bocavirus Capsid Structure: Insights into the Structural Repertoire of the <i>Parvoviridae</i>. <i>Journal of Virology</i> , 2010, 84, 5880-5889.	1.5	79
111	Structural Characterization of the Dual Glycan Binding Adeno-Associated Virus Serotype 6. <i>Journal of Virology</i> , 2010, 84, 12945-12957.	1.5	120
112	Heparin binding induces conformational changes in Adeno-associated virus serotype 2. <i>Journal of Structural Biology</i> , 2009, 165, 146-156.	1.3	98
113	Tyrosine-phosphorylation of AAV2 vectors and its consequences on viral intracellular trafficking and transgene expression. <i>Virology</i> , 2008, 381, 194-202.	1.1	193
114	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, 7827-7832.	3.3	505
115	Engineering and Selection of Shuffled AAV Genomes: A New Strategy for Producing Targeted Biological Nanoparticles. <i>Molecular Therapy</i> , 2008, 16, 1252-1260.	3.7	224
116	Molecular Characterization of the Heparin-Dependent Transduction Domain on the Capsid of a Novel Adeno-Associated Virus Isolate, AAV(VR-942). <i>Journal of Virology</i> , 2008, 82, 8911-8916.	1.5	54
117	Structure of Adeno-Associated Virus Serotype 8, a Gene Therapy Vector. <i>Journal of Virology</i> , 2007, 81, 12260-12271.	1.5	199
118	Host-Selected Amino Acid Changes at the Sialic Acid Binding Pocket of the Parvovirus Capsid Modulate Cell Binding Affinity and Determine Virulence. <i>Journal of Virology</i> , 2006, 80, 1563-1573.	1.5	72
119	$\hat{I}\pm 2,3$ and $\hat{I}\pm 2,6$ N-Linked Sialic Acids Facilitate Efficient Binding and Transduction by Adeno-Associated Virus Types 1 and 6. <i>Journal of Virology</i> , 2006, 80, 9093-9103.	1.5	268
120	Structurally Mapping the Diverse Phenotype of Adeno-Associated Virus Serotype 4. <i>Journal of Virology</i> , 2006, 80, 11556-11570.	1.5	165
121	Adeno-Associated Virus Type 2 Contains an Integrin $\hat{I}\pm 5\hat{I}^1$ Binding Domain Essential for Viral Cell Entry. <i>Journal of Virology</i> , 2006, 80, 8961-8969.	1.5	164
122	Structure of Adeno-Associated Virus Type 4. <i>Journal of Virology</i> , 2005, 79, 5047-5058.	1.5	95
123	Atomic structure of viral particles. , 2005, , 107-123.		13
124	Structure of Adeno-Associated Virus Serotype 5. <i>Journal of Virology</i> , 2004, 78, 3361-3371.	1.5	104
125	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.	1.5	294
126	Mutational Analysis of the Adeno-Associated Virus Type 2 (AAV2) Capsid Gene and Construction of AAV2 Vectors with Altered Tropism. <i>Journal of Virology</i> , 2000, 74, 8635-8647.	1.5	344