Atomic Structure of Human Adenovirus by Cryo-EM Re Networks

Science 329, 1038-1043

DOI: 10.1126/science.1187433

Citation Report

#	Article	IF	CITATIONS
1	Diffraction Techniques in Structural Biology. Current Protocols in Nucleic Acid Chemistry, 2010, 41, Unit 7.13.	0.5	7
2	Looking Inside Adenovirus. Science, 2010, 329, 1026-1027.	6.0	34
3	Electrochemical studies on the permeable characteristics of thiol-modified double-stranded DNA self-assembled monolayers on gold. Analyst, The, 2011, 136, 2090.	1.7	8
4	Reaching the Information Limit in Cryo-EM of Biological Macromolecules: Experimental Aspects. Biophysical Journal, 2011, 100, 2331-2337.	0.2	60
5	Near-atomic resolution cryo-EM for molecular virology. Current Opinion in Virology, 2011, 1, 110-117.	2.6	46
6	Viral attachment strategies: the many faces of adenoviruses. Current Opinion in Virology, 2011, 1, 84-91.	2.6	27
7	Double-stranded DNA viruses: 20 families and only five different architectural principles for virion assembly. Current Opinion in Virology, 2011, 1, 118-124.	2.6	77
8	Single-particle electron cryotomography (cryoET). Advances in Protein Chemistry and Structural Biology, 2011, 82, 37-65.	1.0	24
9	Future prospects. Advances in Protein Chemistry and Structural Biology, 2011, 82, 101-121.	1.0	7
10	Cellular tomography. Advances in Protein Chemistry and Structural Biology, 2011, 82, 67-90.	1.0	21
12	Drifting Motions of the Adenovirus Receptor CAR and Immobile Integrins Initiate Virus Uncoating and Membrane Lytic Protein Exposure. Cell Host and Microbe, 2011, 10, 105-117.	5.1	157
13	Kinesin-1-Mediated Capsid Disassembly and Disruption of the Nuclear Pore Complex Promote Virus Infection. Cell Host and Microbe, 2011, 10, 210-223.	5.1	174
14	An adenovirus traffic update: from receptor engagement to the nuclear pore. Future Microbiology, 2011, 6, 179-192.	1.0	22
15	Validation of the orthogonal tilt reconstruction method with a biological test sample. Journal of Structural Biology, 2011, 175, 85-96.	1.3	4
16	Limiting factors in atomic resolution cryo electron microscopy: No simple tricks. Journal of Structural Biology, 2011, 175, 253-263.	1.3	63
17	Edged watershed segmentation: A semi-interactive algorithm for segmentation of low-resolution maps from electron cryomicroscopy. Journal of Structural Biology, 2011, 176, 127-132.	1.3	6
18	Initial evaluation of a direct detection device detector for single particle cryo-electron microscopy. Journal of Structural Biology, 2011, 176, 404-408.	1.3	91
19	Model of the Trimeric Fiber and Its Interactions with the Pentameric Penton Base of Human Adenovirus by Cryo-electron Microscopy. Journal of Molecular Biology, 2011, 406, 764-774.	2.0	41

#	Article	IF	Citations
20	A helical processing pipeline for EM structure determination of membrane proteins. Methods, 2011, 55, 350-362.	1.9	5
21	Atomic resolution cryo electron microscopy of macromolecular complexes. Advances in Protein Chemistry and Structural Biology, 2011, 82, 1-35.	1.0	70
22	Application of symmetry-adapted functions method for three-dimensional reconstruction of biological macromolecules with dihedral symmetry. Journal of Biomedical Graphics and Computing, $2011,1,\ldots$	0.2	0
23	Recombinant Adenovirus Vector Infection of Human Dendritic Cells. , 0, , .		2
24	Advances and Future Challenges in Adenoviral Vector Pharmacology and Targeting. Current Gene Therapy, 2011, 11, 241-258.	0.9	131
26	Adenovirus-triggered innate signalling pathways. European Journal of Microbiology and Immunology, 2011, 1, 279-288.	1.5	31
27	Near-atomic resolution reconstructions of icosahedral viruses from electron cryo-microscopy. Current Opinion in Structural Biology, 2011, 21, 265-273.	2.6	148
28	Characterization of species C human adenovirus serotype 6 (Ad6). Virology, 2011, 412, 19-27.	1.1	32
29	Virucidal mechanism of action of NVC-422, a novel antimicrobial drug for the treatment of adenoviral conjunctivitis. Antiviral Research, 2011, 92, 470-478.	1.9	16
30	Experimental models to study lymphatic and blood vascular metastasis. Journal of Surgical Oncology, 2011, 103, 475-483.	0.8	17
31	Functional Genetic and Biophysical Analyses of Membrane Disruption by Human Adenovirus. Journal of Virology, 2011, 85, 2631-2641.	1.5	82
32	Implications of the innate immune response to adenovirus and adenoviral vectors. Future Virology, 2011, 6, 357-374.	0.9	65
33	Three-dimensional structure and function of the <i>Paramecium bursaria</i> chlorella virus capsid. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14837-14842.	3.3	80
34	Hydrogen-bonding networks and RNA bases revealed by cryo electron microscopy suggest a triggering mechanism for calcium switches. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9637-9642.	3.3	111
35	Adenovirus Structural Protein IIIa Is Involved in the Serotype Specificity of Viral DNA Packaging. Journal of Virology, 2011, 85, 7849-7855.	1.5	32
36	Characterization of Empty Adenovirus Particles Assembled in the Absence of a Functional Adenovirus IVa2 Protein. Journal of Virology, 2011, 85, 5524-5531.	1.5	41
37	Androgen-Independent Molecular Imaging Vectors to Detect Castration-Resistant and Metastatic Prostate Cancer. Cancer Research, 2011, 71, 6250-6260.	0.4	18
38	A fast mapping method in the ISAF reconstruction algorithm. , 2011, 2011, 3930-3.		O

#	Article	IF	Citations
39	Structural basis for scaffolding-mediated assembly and maturation of a dsDNA virus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1355-1360.	3.3	191
40	The Dynactin Complex Enhances the Speed of Microtubule-Dependent Motions of Adenovirus Both Towards and Away from the Nucleus. Viruses, 2011, 3, 233-253.	1.5	44
41	Bacteriophage Assembly. Viruses, 2011, 3, 172-203.	1.5	113
42	Adenovirus Recruits Dynein by an Evolutionary Novel Mechanism Involving Direct Binding to pH-Primed Hexon. Viruses, 2011, 3, 1417-1431.	1.5	40
43	Adenovirus Serotype 5-Specific Neutralizing Antibodies Target Multiple Hexon Hypervariable Regions. Journal of Virology, 2012, 86, 1267-1272.	1.5	81
44	Virus strategies for passing the nuclear envelope barrier. Nucleus, 2012, 3, 526-539.	0.6	90
45	Visualizing large RNA molecules in solution. Rna, 2012, 18, 284-299.	1.6	95
46	AAA ATPase p97/VCP is essential for TRIM21-mediated virus neutralization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19733-19738.	3.3	91
47	Chromatin structure of adenovirus DNA throughout infection. Nucleic Acids Research, 2012, 40, 2369-2376.	6.5	72
48	The phosphoproteome of the adenovirus type 2 virion. Virology, 2012, 433, 253-261.	1.1	17
49	The Role of Capsid Maturation on Adenovirus Priming for Sequential Uncoating. Journal of Biological Chemistry, 2012, 287, 31582-31595.	1.6	82
50	Reconstructing Virus Structures from Nanometer to Near-Atomic Resolutions with Cryo-Electron Microscopy and Tomography. Advances in Experimental Medicine and Biology, 2012, 726, 49-90.	0.8	37
51	RELION: Implementation of a Bayesian approach to cryo-EM structure determination. Journal of Structural Biology, 2012, 180, 519-530.	1.3	4,715
52	Nanoinclusions in Cryogenically Quenched Nanoemulsions. Langmuir, 2012, 28, 12015-12021.	1.6	6
53	Cell-Free Transmission of Human Adenovirus by Passive Mass Transfer in Cell Culture Simulated in a Computer Model. Journal of Virology, 2012, 86, 10123-10137.	1.5	60
54	Cryo-EM in the Study of Membrane Transport Proteins. , 2012, 2, 283-93.		1
55	Seeing Engineered Loops in a Gene Delivery Vehicle by cryoEM. Structure, 2012, 20, 1286-1288.	1.6	2
56	Conserved Fiber-Penton Base Interaction Revealed by Nearly Atomic Resolution Cryo-Electron Microscopy of the Structure of Adenovirus Provides Insight into Receptor Interaction. Journal of Virology, 2012, 86, 12322-12329.	1.5	29

#	Article	IF	Citations
57	Coagulation Factor X Activates Innate Immunity to Human Species C Adenovirus. Science, 2012, 338, 795-798.	6.0	141
58	Electron tomography of cells. Quarterly Reviews of Biophysics, 2012, 45, 27-56.	2.4	138
59	Assemble, replicate, remodel and evade. Current Opinion in Virology, 2012, 2, 111-114.	2.6	1
60	Structure of AAV-DJ, a Retargeted Gene Therapy Vector: Cryo-Electron Microscopy at 4.5ÂÃ Resolution. Structure, 2012, 20, 1310-1320.	1.6	63
61	Principles of Virus Structural Organization. Advances in Experimental Medicine and Biology, 2012, 726, 17-47.	0.8	124
62	Identification of Adenovirus Serotype 5 Hexon Regions That Interact with Scavenger Receptors. Journal of Virology, 2012, 86, 2293-2301.	1.5	69
63	Latest Insights on Adenovirus Structure and Assembly. Viruses, 2012, 4, 847-877.	1.5	138
64	Structure of human adenovirus. Current Opinion in Virology, 2012, 2, 115-121.	2.6	83
65	Go hybrid: EM, crystallography, and beyond. Current Opinion in Structural Biology, 2012, 22, 627-635.	2.6	37
66	1.16 Cryo-Electron Microscopy and Tomography of Virus Particles. , 2012, , 311-340.		1
67	IPET and FETR: Experimental Approach for Studying Molecular Structure Dynamics by Cryo-Electron Tomography of a Single-Molecule Structure. PLoS ONE, 2012, 7, e30249.	1.1	75
68	The Structural Basis for the Integrity of Adenovirus Ad3 Dodecahedron. PLoS ONE, 2012, 7, e46075.	1.1	25
69	CryoEM Visualization of an Adenovirus Capsid-Incorporated HIV Antigen. PLoS ONE, 2012, 7, e49607.	1.1	4
70	Understanding and controlling the interaction of nanomaterials with proteins in a physiological environment. Chemical Society Reviews, 2012, 41, 2780-2799.	18.7	1,385
71	Gorgon and pathwalking: Macromolecular modeling tools for subnanometer resolution density maps. Biopolymers, 2012, 97, 655-668.	1.2	45
72	Structure Unifies the Viral Universe. Annual Review of Biochemistry, 2012, 81, 795-822.	5.0	252
74	EM-Fold: De Novo Atomic-Detail Protein Structure Determination from Medium-Resolution Density Maps. Structure, 2012, 20, 464-478.	1.6	86
75	Disulfide-bond formation by a single cysteine mutation in adenovirus protein VI impairs capsid release and membrane lysis. Virology, 2012, 428, 41-47.	1.1	23

#	Article	IF	CITATIONS
76	Crystallization and preliminary crystallographic analysis of the major capsid proteins VP16 and VP17 of bacteriophage P23-77. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 580-583.	0.7	8
77	Ab initio protein modeling into CryoEM density maps using EMâ€Fold. Biopolymers, 2012, 97, 669-677.	1.2	23
78	Structure and Physics of Viruses. Sub-Cellular Biochemistry, 2013, , .	1.0	41
79	Structure of viruses: a short history. Quarterly Reviews of Biophysics, 2013, 46, 133-180.	2.4	86
80	pH shift assembly of adenoviral serotype 5 capsid protein nanosystems for enhanced delivery of nanoparticles, proteins and nucleic acids. Journal of Controlled Release, 2013, 172, 341-350.	4.8	5
81	Post translational modifications in adenovirus type 2. Virology, 2013, 447, 104-111.	1.1	19
82	Is EM dead?. Journal of Cell Science, 2013, 126, 4545-4552.	1.2	69
83	A Direct and Versatile Assay Measuring Membrane Penetration of Adenovirus in Single Cells. Journal of Virology, 2013, 87, 12367-12379.	1.5	62
84	Identification of a Suppressor Mutation That Improves the Yields of Hexon-Modified Adenovirus Vectors. Journal of Virology, 2013, 87, 9661-9671.	1.5	9
85	Regulation of a Viral Proteinase by a Peptide and DNA in One-dimensional Space. Journal of Biological Chemistry, 2013, 288, 2092-2102.	1.6	44
86	Cryo-EM structure of the mature dengue virus at 3.5-Ã resolution. Nature Structural and Molecular Biology, 2013, 20, 105-110.	3.6	372
87	Integrin and Defensin Modulate the Mechanical Properties of Adenovirus. Journal of Virology, 2013, 87, 2756-2766.	1.5	76
88	Adenovirus vaccines., 2013,, 113-126.		2
89	Web-based visualisation and analysis of 3D electron-microscopy data from EMDB and PDB. Journal of Structural Biology, 2013, 184, 173-181.	1.3	34
90	Dynamics in cryo EM reconstructions visualized with maximum-likelihood derived variance maps. Journal of Structural Biology, 2013, 181, 195-206.	1.3	43
91	Maximizing the potential of electron cryomicroscopy data collected using direct detectors. Journal of Structural Biology, 2013, 184, 193-202.	1.3	30
92	Engineering polypeptide coatings to augment gene transduction and in vivo stability of adenoviruses. Journal of Controlled Release, 2013, 166, 75-85.	4.8	16
94	Uncoating of non-enveloped viruses. Current Opinion in Virology, 2013, 3, 27-33.	2.6	105

#	Article	IF	Citations
95	Prospects for oral replicating adenovirus-vectored vaccines. Vaccine, 2013, 31, 3236-3243.	1.7	39
96	Optimized negative-staining electron microscopy for lipoprotein studies. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2150-2159.	1.1	50
97	Quantitative characterization of electron detectors for transmission electron microscopy. Journal of Structural Biology, 2013, 184, 385-393.	1.3	183
98	Automatic protein structure solution from weak X-ray data. Nature Communications, 2013, 4, 2777.	5.8	245
99	Zernike phase contrast cryo-electron microscopy reveals 100 kDa component in a protein complex. Journal Physics D: Applied Physics, 2013, 46, 494008.	1.3	8
100	The Role of Chromatin in Adenoviral Vector Function. Viruses, 2013, 5, 1500-1515.	1.5	15
101	Regulation of a Viral Proteinase by a Peptide and DNA in One-dimensional Space. Journal of Biological Chemistry, 2013, 288, 2059-2067.	1.6	15
102	Monitoring dynamics of human adenovirus disassembly induced by mechanical fatigue. Scientific Reports, 2013, 3, 1434.	1.6	85
103	Atomic structure of the 75 MDa extremophile <i>Sulfolobus</i> turreted icosahedral virus determined by CryoEM and X-ray crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5504-5509.	3.3	77
104	From lows to highs: using low-resolution models to phase X-ray data. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2257-2265.	2.5	11
105	Coagulation Factor Binding Orientation and Dimerization May Influence Infectivity of Adenovirus-Coagulation Factor Complexes. Journal of Virology, 2013, 87, 9610-9619.	1.5	25
107	De novo modeling of the F420-reducing [NiFe]-hydrogenase from a methanogenic archaeon by cryo-electron microscopy. ELife, 2013, 2, e00218.	2.8	66
108	Precise improvement of ISAF reconstruction algorithm based on the computational radius of density function. Bio-Medical Materials and Engineering, 2014, 24, 3787-3795.	0.4	0
109	Adenoviruses: Molecular Biologyâ~†., 2014, , .		1
110	Structures and organization of adenovirus cement proteins provide insights into the role of capsid maturation in virus entry and infection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11715-11720.	3.3	90
111	Structure, Function and Dynamics in Adenovirus Maturation. Viruses, 2014, 6, 4536-4570.	1.5	103
112	The Adenovirus Genome Contributes to the Structural Stability of the Virion. Viruses, 2014, 6, 3563-3583.	1.5	47
113	Coat as a Dagger: The Use of Capsid Proteins to Perforate Membranes during Non-Enveloped DNA Viruses Trafficking. Viruses, 2014, 6, 2899-2937.	1.5	13

#	Article	IF	Citations
114	A Structural Model of the Genome Packaging Process in a Membrane-Containing Double Stranded DNA Virus. PLoS Biology, 2014, 12, e1002024.	2.6	41
115	Reply to Campos: Revised structures of adenovirus cement proteins represent a consensus model for understanding virus assembly and disassembly. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4544-5.	3 . 3	7
116	Protruding knob-like proteins violate local symmetries in an icosahedral marine virus. Nature Communications, 2014, 5, 4278.	5.8	21
117	A visualized investigation at the atomic scale of the antitumor effect of magnetic nanomedicine on gastric cancer cells. Nanomedicine, 2014, 9, 1389-1402.	1.7	6
118	Single-particle EM reveals plasticity of interactions between the adenovirus penton base and integrin $\hat{l}\pm$ _V \hat{l}^2 ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8815-8819.	3.3	33
119	Single-step antibody-based affinity cryo-electron microscopy for imaging and structural analysis of macromolecular assemblies. Journal of Structural Biology, 2014, 187, 1-9.	1.3	35
120	Intertypic modular exchanges of genomic segments by homologous recombination at universally conserved segments in human adenovirus species D. Gene, 2014, 547, 10-17.	1.0	20
121	High-resolution cryo-electron microscopy on macromolecular complexes and cell organelles. Protoplasma, 2014, 251, 417-427.	1.0	24
122	Innate Immunity to Adenovirus. Human Gene Therapy, 2014, 25, 265-284.	1.4	185
123	Adenovirus-Based Vaccines for Fighting Infectious Diseases and Cancer: Progress in the Field. Human Gene Therapy, 2014, 25, 301-317.	1.4	90
124	Proteome Analysis of Adenovirus Using Mass Spectrometry. Methods in Molecular Biology, 2014, 1089, 25-44.	0.4	4
125	Common Mechanism for RNA Encapsidation by Negative-Strand RNA Viruses. Journal of Virology, 2014, 88, 3766-3775.	1.5	37
126	New structural model of adenoviral cement proteins is not yet concrete. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4542-3.	3.3	10
127	Four Levels of Hierarchical Organization, Including Noncovalent Chainmail, Brace the Mature Tumor Herpesvirus Capsid against Pressurization. Structure, 2014, 22, 1385-1398.	1.6	16
128	Toward a high-resolution structure of IP3R channel. Cell Calcium, 2014, 56, 125-132.	1.1	37
129	IIIa deleted adenovirus as a single-cycle genome replicating vector. Virology, 2014, 462-463, 158-165.	1.1	35
130	Isolation and Characterization of the DNA and Protein Binding Activities of Adenovirus Core Protein V. Journal of Virology, 2014, 88, 9287-9296.	1.5	30
131	Cryo-EM structures of two bovine adenovirus type 3 intermediates. Virology, 2014, 450-451, 174-181.	1.1	31

#	Article	IF	CITATIONS
132	Adenovirus Composition, Proteolysis, and Disassembly Studied by In-depth Qualitative and Quantitative Proteomics. Journal of Biological Chemistry, 2014, 289, 11421-11430.	1.6	81
133	Towards an integrative structural biology approach: combining Cryo-TEM, X-ray crystallography, and NMR. Journal of Structural and Functional Genomics, 2014, 15, 117-124.	1.2	19
134	The Cleaved N-Terminus of pVI Binds Peripentonal Hexons in Mature Adenovirus. Journal of Molecular Biology, 2014, 426, 1971-1979.	2.0	25
135	Optimized Negative Staining: a High-throughput Protocol for Examining Small and Asymmetric Protein Structure by Electron Microscopy. Journal of Visualized Experiments, 2014, , e51087.	0.2	60
136	\$gamma\$-SUP: A clustering algorithm for cryo-electron microscopy images of asymmetric particles. Annals of Applied Statistics, 2014, 8, .	0.5	17
137	Singleâ€Particle Cryoâ€EM and 3D Reconstruction of Hybrid Nanoparticles with Electronâ€Dense Components. Small, 2015, 11, 5157-5163.	5.2	6
138	Electron Tomography: A Threeâ€Dimensional Analytic Tool for Hard and Soft Materials Research. Advanced Materials, 2015, 27, 5638-5663.	11.1	152
139	Misdelivery at the Nuclear Pore Complexâ€"Stopping a Virus Dead in Its Tracks. Cells, 2015, 4, 277-296.	1.8	38
141	Cryo-EM: A Unique Tool for the Visualization of Macromolecular Complexity. Molecular Cell, 2015, 58, 677-689.	4.5	300
142	Interregional Coevolution Analysis Revealing Functional and Structural Interrelatedness between Different Genomic Regions in <i>Human Mastadenovirus D</i>). Journal of Virology, 2015, 89, 6209-6217.	1.5	17
143	Viral Vectors for Delivery of Antiviral Sequences., 2015,, 95-126.		3
144	Prospects for polymer therapeutics in Parkinson's disease and other neurodegenerative disorders. Progress in Polymer Science, 2015, 44, 79-112.	11.8	24
145	Virus crystallography and structural virology: a personal perspective. Crystallography Reviews, 2015, 21, 57-102.	0.4	4
146	Single crystal X-ray diffraction analysis of virus structure and its applications in the development of pharmaceutical agents. Crystallography Reviews, 2015, 21, 103-121.	0.4	2
147	Transmission electron microscopy and the molecular structure of icosahedral viruses. Archives of Biochemistry and Biophysics, 2015, 581, 59-67.	1.4	6
148	The Amphipathic Helix of Adenovirus Capsid Protein VI Contributes to Penton Release and Postentry Sorting. Journal of Virology, 2015, 89, 2121-2135.	1.5	25
149	Overview and future of single particle electron cryomicroscopy. Archives of Biochemistry and Biophysics, 2015, 581, 19-24.	1.4	89
150	Differential ultracentrifugation coupled to small-angle X-ray scattering on macromolecular complexes. Journal of Applied Crystallography, 2015, 48, 769-775.	1.9	6

#	Article	IF	Citations
151	Cryo-Electron Microscopy and the Amazing Race to Atomic Resolution. Biochemistry, 2015, 54, 3133-3141.	1.2	44
152	Distribution of DNA-condensing protein complexes in the adenovirus core. Nucleic Acids Research, 2015, 43, 4274-4283.	6.5	41
153	Adenovirus membrane penetration: Tickling the tail of a sleeping dragon. Virology, 2015, 479-480, 591-599.	1.1	50
154	2.2 \tilde{A} resolution cryo-EM structure of \hat{I}^2 -galactosidase in complex with a cell-permeant inhibitor. Science, 2015, 348, 1147-1151.	6.0	440
155	Structures of Adenovirus Incomplete Particles Clarify Capsid Architecture and Show Maturation Changes of Packaging Protein L1 52/55k. Journal of Virology, 2015, 89, 9653-9664.	1.5	44
156	Cryo-EM shows the polymerase structures and a nonspooled genome within a dsRNA virus. Science, 2015, 349, 1347-1350.	6.0	74
157	How cryo-EM is revolutionizing structural biology. Trends in Biochemical Sciences, 2015, 40, 49-57.	3.7	709
158	Conformational Changes in the Adenovirus Hexon Subunit Responsible for Regulating Cytoplasmic Dynein Recruitment. Journal of Virology, 2015, 89, 1013-1023.	1.5	23
159	Solving protein nanocrystals by cryo-EM diffraction: Multiple scattering artifacts. Ultramicroscopy, 2015, 148, 87-93.	0.8	49
160	Adenoviruses. , 0, , 575-597.		2
162	Biology of Adenovirus Cell Entry. , 2016, , 27-58.		11
163	A novel capsid-modified oncolytic recombinant adenovirus type 5 for tumor-targeting gene therapy by intravenous route. Oncotarget, 2016, 7, 47287-47301.	0.8	15
164	Adenoviral Vector Targeting via Mitigation of Liver Sequestration., 2016,, 293-317.		0
165	Insights into Adenovirus Uncoating from Interactions with Integrins and Mediators of Host Immunity. Viruses, 2016, 8, 337.	1.5	24
166	Components of Adenovirus Genome Packaging. Frontiers in Microbiology, 2016, 7, 1503.	1.5	61
167	Dissecting Virus Infectious Cycles by Cryo-Electron Microscopy. PLoS Pathogens, 2016, 12, e1005625.	2.1	12
168	Albumin-binding adenoviruses circumvent pre-existing neutralizing antibodies upon systemic delivery. Journal of Controlled Release, 2016, 237, 78-88.	4.8	51
169	Diffraction Techniques in Structural Biology. Current Protocols in Nucleic Acid Chemistry, 2016, 65, 7.13.1-7.13.41.	0.5	11

#	Article	IF	CITATIONS
170	Interaction between hexon and L4-100K determines virus rescue and growth of hexon-chimeric recombinant Ad5 vectors. Scientific Reports, 2016, 6, 22464.	1.6	11
171	Single particle electron cryomicroscopy: trends, issues and future perspective. Quarterly Reviews of Biophysics, 2016, 49, e13.	2.4	163
172	Adenovirus Structure., 2016, , 1-26.		0
173	Adenoviral vector-based strategies against infectious disease and cancer. Human Vaccines and Immunotherapeutics, 2016, 12, 2064-2074.	1.4	87
174	Resolution advances in cryo-EM enable application to drug discovery. Current Opinion in Structural Biology, 2016, 41, 194-202.	2.6	95
176	The Density Code for the Development of a Vaccine?. Journal of Pharmaceutical Sciences, 2016, 105, 3223-3232.	1.6	22
177	Protein cages and synthetic polymers: a fruitful symbiosis for drug delivery applications, bionanotechnology and materials science. Chemical Society Reviews, 2016, 45, 6213-6249.	18.7	136
178	Symmetry-mismatch reconstruction of genomes and associated proteins within icosahedral viruses using cryo-EM. Biophysics Reports, 2016, 2, 25-32.	0.2	14
179	An algorithm for estimation and correction of anisotropic magnification distortion of cryo-EM images without need of pre-calibration. Journal of Structural Biology, 2016, 195, 207-215.	1.3	37
180	Recent advances in human viruses imaging studies. Journal of Basic Microbiology, 2016, 56, 591-607.	1.8	5
181	Protein Ensembles: How Does Nature Harness Thermodynamic Fluctuations for Life? The Diverse Functional Roles of Conformational Ensembles in the Cell. Chemical Reviews, 2016, 116, 6516-6551.	23.0	302
182	2.9ÂÃ Resolution Cryo-EM 3D Reconstruction of Close-Packed Virus Particles. Structure, 2016, 24, 319-328.	1.6	74
183	Adenoviral Vectors Vaccine. , 2016, , 571-590.		1
184	Single-particle cryo-electron microscopy of macromolecular complexes. Microscopy (Oxford,) Tj ETQq1 1 0.7843	14 _d gBT/C)verlock 10
185	Integration of X-ray crystallography and electron cryo-microscopy in the analysis of virus structure and function. Crystallography Reviews, 2016, 22, 102-127.	0.4	3
186	Development of Novel Adenoviral Vectors to Overcome Challenges Observed With HAdV-5–based Constructs. Molecular Therapy, 2016, 24, 6-16.	3.7	85
187	Vitrification after multiple rounds of sample application and blotting improves particle density on cryo-electron microscopy grids. Journal of Structural Biology, 2017, 198, 38-42.	1.3	68
188	Cryo-EM structure of human adenovirus D26 reveals the conservation of structural organization among human adenoviruses. Science Advances, 2017, 3, e1602670.	4.7	64

#	Article	IF	CITATIONS
189	Viral mechanisms for docking and delivering at nuclear pore complexes. Seminars in Cell and Developmental Biology, 2017, 68, 59-71.	2.3	33
190	Near-Atomic Resolution Structure Determination of a Cypovirus Capsid and Polymerase Complex Using Cryo-EM at 200kV. Journal of Molecular Biology, 2017, 429, 79-87.	2.0	31
191	The nuclear export factor CRM1 controls juxta-nuclear microtubule-dependent virus transport. Journal of Cell Science, 2017, 130, 2185-2195.	1.2	34
193	Proteolytic Cleavage of Bovine Adenovirus 3-Encoded pVIII. Journal of Virology, 2017, 91, .	1.5	6
194	Structure of a Reptilian Adenovirus Reveals a Phage Tailspike Fold Stabilizing a Vertebrate Virus Capsid. Structure, 2017, 25, 1562-1573.e5.	1.6	19
195	Atomic Structures of Minor Proteins VI and VII in Human Adenovirus. Journal of Virology, 2017, 91, .	1.5	59
196	Temporal characterization of the non-structural Adenovirus type 2 proteome and phosphoproteome using high-resolving mass spectrometry. Virology, 2017, 511, 240-248.	1.1	8
197	Polymeric Vectors for Strategic Delivery of Nucleic Acids. Nano LIFE, 2017, 07, 1730003.	0.6	3
198	Cryo-EM structure of the bacteriophage T4 isometric head at 3.3-Ã resolution and its relevance to the assembly of icosahedral viruses. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8184-E8193.	3.3	63
199	Electron Cryomicroscopy of Viruses at Near-Atomic Resolutions. Annual Review of Virology, 2017, 4, 287-308.	3.0	25
200	The Role of Hexon Protein as a Molecular Mold in Patterning the Protein IX Organization in Human Adenoviruses. Journal of Molecular Biology, 2017, 429, 2747-2751.	2.0	13
201	Atomic cryo-EM structures of viruses. Current Opinion in Structural Biology, 2017, 46, 122-129.	2.6	55
202	Evolution and Cryo-electron Microscopy Capsid Structure of a North American Bat Adenovirus and Its Relationship to Other Mastadenoviruses. Journal of Virology, 2017, 91, .	1.5	26
203	The potential of cryo-electron microscopy for structure-based drug design. Essays in Biochemistry, 2017, 61, 543-560.	2.1	34
204	Localization of adenovirus morphogenesis players, together with visualization of assembly intermediates and failed products, favor a model where assembly and packaging occur concurrently at the periphery of the replication center. PLoS Pathogens, 2017, 13, e1006320.	2.1	46
205	Cellular origin of the viral capsid-like bacterial microcompartments. Biology Direct, 2017, 12, 25.	1.9	17
206	Virus Structure. , 2017, , 21-29.		6
207	Bovine adenovirus type 3 virions cannot be rescuedin vivoafter full-length viral genome transfection in the absence of detectable polypeptide IX. Journal of Veterinary Science, 2017, 18, 217.	0.5	0

#	ARTICLE	IF	CITATIONS
208	Bovine adenovirusâ€3 protein VIII associates with eukaryotic initiation factorâ€6 during infection. Cellular Microbiology, 2018, 20, e12842.	1.1	3
209	Membrane-containing virus particles exhibit the mechanics of a composite material for genome protection. Nanoscale, $2018, 10, 7769-7779$.	2.8	12
210	Structure-based assessment of protein-protein interactions and accessibility of protein IX in adenoviruses with implications for antigen display. Virology, 2018, 516, 102-107.	1.1	13
211	Recent advances in retroviruses via cryo-electron microscopy. Retrovirology, 2018, 15, 23.	0.9	5
212	Structure of Herpesvirus Capsid Sheds Light on Drug Discovery. Trends in Microbiology, 2018, 26, 391-392.	3.5	2
213	Building the atomic model of a boreal lake virus of unknown fold in a 3.9 à cryo-EM map. Journal of Structural Biology, 2018, 202, 94-99.	1.3	3
214	Estimating the effect of finite depth of field in single-particle cryo-EM. Ultramicroscopy, 2018, 184, 94-99.	0.8	19
215	Novel Divergent Polar Bear-Associated Mastadenovirus Recovered from a Deceased Juvenile Polar Bear. MSphere, 2018, 3, .	1.3	8
216	A Method for Fully Automated Particle Picking in Cryo-Electron Microscopy Based on a CNN. , 2018, , .		2
217	Biomolecular Assemblies: Moving from Observation to Predictive Design. Chemical Reviews, 2018, 118, 11519-11574.	23.0	71
218	Computing methods for icosahedral and symmetry-mismatch reconstruction of viruses by cryo-electron microscopy. Chinese Physics B, 2018, 27, 056802.	0.7	0
219	Breaking Symmetry in Viral Icosahedral Capsids as Seen through the Lenses of X-ray Crystallography and Cryo-Electron Microscopy. Viruses, 2018, 10, 67.	1.5	34
220	Bacteriophage imaging: past, present and future. Research in Microbiology, 2018, 169, 488-494.	1.0	12
221	Progress in Adenoviral Capsid-Display Vaccines. Biomedicines, 2018, 6, 81.	1.4	18
222	Recent Advancements in 3-D Structure Determination of Bacteriophages: from Negative Stain to CryoEM. Journal of the Indian Institute of Science, 2018, 98, 247-260.	0.9	0
223	Tropism and transduction of oncolytic adenovirus 5 vectors in cancer therapy: Focus on fiber chimerism and mosaicism, hexon and plX. Virus Research, 2018, 257, 40-51.	1.1	37
224	Revised Crystal Structure of Human Adenovirus Reveals the Limits on Protein IX Quasi-Equivalence and on Analyzing Large Macromolecular Complexes. Journal of Molecular Biology, 2018, 430, 4132-4141.	2.0	20
225	Porcine Adenovirus Type 3 E3 Encodes a Structural Protein Essential for Capsid Stability and Production of Infectious Progeny Virions. Journal of Virology, 2018, 92, .	1.5	2

#	ARTICLE	IF	CITATIONS
226	Adenovirus Vaccines. , 2018, , 121-133.e8.		5
227	Lung macrophage scavenger receptor SR-A6 (MARCO) is an adenovirus type-specific virus entry receptor. PLoS Pathogens, 2018, 14, e1006914.	2.1	56
228	Adenovirus major core protein condenses DNA in clusters and bundles, modulating genome release and capsid internal pressure. Nucleic Acids Research, 2019, 47, 9231-9242.	6.5	31
229	Membrane-Containing Icosahedral Bacteriophage PRD1: The Dawn of Viral Lineages. Advances in Experimental Medicine and Biology, 2019, 1215, 85-109.	0.8	9
230	Physical Virology. Advances in Experimental Medicine and Biology, 2019, , .	0.8	8
231	Adenovirus Entry: From Infection to Immunity. Annual Review of Virology, 2019, 6, 177-197.	3.0	113
232	Editorial: Physical Virology and the Nature of Virus Infections. Advances in Experimental Medicine and Biology, 2019, 1215, 1-11.	0.8	5
233	Virus Maturation. Advances in Experimental Medicine and Biology, 2019, 1215, 129-158.	0.8	6
234	Structural analysis of pleomorphic and asymmetric viruses using cryo-electron tomography and subtomogram averaging. Advances in Virus Research, 2019, 105, 117-159.	0.9	18
235	Complement C4 Prevents Viral Infection through Capsid Inactivation. Cell Host and Microbe, 2019, 25, 617-629.e7.	5.1	53
236	Adenovirus flow in host cell networks. Open Biology, 2019, 9, 190012.	1.5	18
237	Sialic Acids in Nonenveloped Virus Infections. Advances in Carbohydrate Chemistry and Biochemistry, 2019, 76, 65-111.	0.4	13
238	Introductory Chapter: Human Adenoviruses. , 2019, , .		1
239	Lessons learned from adenovirus (1970–2019). FEBS Letters, 2019, 593, 3395-3418.	1.3	26
240	Bottom-up structural proteomics: cryoEM of protein complexes enriched from the cellular milieu. Nature Methods, 2020, 17, 79-85.	9.0	80
241	Delivery systems for enhancing oncolytic adenoviruses efficacy. International Journal of Pharmaceutics, 2020, 591, 119971.	2.6	5
242	Recent Advances in Novel Antiviral Therapies against Human Adenovirus. Microorganisms, 2020, 8, 1284.	1.6	16
243	Dynamic competition for hexon binding between core protein VII and lytic protein VI promotes adenovirus maturation and entry. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13699-13707.	3.3	26

#	ARTICLE	IF	CITATIONS
244	Fusion of Large Polypeptides to Human Adenovirus Type 5 Capsid Protein IX Can Compromise Virion Stability and DNA Packaging Capacity. Journal of Virology, 2020, 94, .	1.5	5
245	The FDA-Approved Drug Nelfinavir Inhibits Lytic Cell-Free but Not Cell-Associated Nonlytic Transmission of Human Adenovirus. Antimicrobial Agents and Chemotherapy, 2020, 64, .	1.4	16
246	Chemical engineering of protein cages and nanoparticles for pharmaceutical applications. , 2020, , 415-433.		5
247	Cryo-electron microscopy for the study of virus assembly. Nature Chemical Biology, 2020, 16, 231-239.	3.9	65
248	A novel vibriophage exhibits inhibitory activity against host protein synthesis machinery. Scientific Reports, 2020, 10, 2347.	1.6	20
249	Adenoviruses (Adenoviridae) and Their Structural Relatives. , 2021, , 329-344.		1
250	Icosahedral virus structures and the protein data bank. Journal of Biological Chemistry, 2021, 296, 100554.	1.6	17
251	Adenovirus Core Proteins: Structure and Function. Viruses, 2021, 13, 388.	1.5	38
252	Capsid and Genome Modification Strategies to Reduce the Immunogenicity of Adenoviral Vectors. International Journal of Molecular Sciences, 2021, 22, 2417.	1.8	17
253	Cryo-EM structure of enteric adenovirus HAdV-F41 highlights structural variations among human adenoviruses. Science Advances, 2021, 7, .	4.7	15
254	Fluctuating nonlinear spring theory: Strength, deformability, and toughness of biological nanoparticles from theoretical reconstruction of force-deformation spectra. Acta Biomaterialia, 2021, 122, 263-277.	4.1	5
255	Near-atomic structure of an atadenovirus reveals a conserved capsid-binding motif and intergenera variations in cementing proteins. Science Advances, 2021, 7, .	4.7	9
256	Pharmaceutical Aspects and Clinical Evaluation of COVID-19 Vaccines. Immunological Investigations, 2021, 50, 743-779.	1.0	16
257	Adenovirus Structure: What Is New?. International Journal of Molecular Sciences, 2021, 22, 5240.	1.8	53
258	Understanding Post Entry Sorting of Adenovirus Capsids; A Chance to Change Vaccine Vector Properties. Viruses, 2021, 13, 1221.	1.5	9
259	Adenovirus – a blueprint for gene delivery. Current Opinion in Virology, 2021, 48, 49-56.	2.6	25
260	Molecular Characteristics of Human Adenovirus Type 3 Circulating in Parts of China During 2014–2018. Frontiers in Microbiology, 2021, 12, 688661.	1.5	10
261	Sub-3 Ã Cryo-EM Structures of Necrosis Virus Particles via the Use of Multipurpose TEM with Electron Counting Camera. International Journal of Molecular Sciences, 2021, 22, 6859.	1.8	2

#	Article	IF	CITATIONS
262	A Close Look at Molecular Self-Assembly with the Transmission Electron Microscope. Chemical Reviews, 2021, 121, 14232-14280.	23.0	33
263	Cryogenic Electron Microscopy for Resolving DNA Nanostructures and Their Complexes. Small Structures, 2021, 2, 2100053.	6.9	4
264	On-chip transporting arresting and characterizing individual nano-objects in biological ionic liquids. Science Advances, 2021, 7, .	4.7	2
265	Synthetic Biology Approaches for Engineering Next-Generation Adenoviral Gene Therapies. ACS Nano, 2021, 15, 13970-13979.	7.3	7
266	Virus Removal and Inactivation Mechanisms during Iron Electrocoagulation: Capsid and Genome Damages and Electro-Fenton Reactions. Environmental Science & Environmental Science & 2021, 55, 13198-13208.	4.6	9
267	Synchronized attachment and the Darwinian evolution of coronaviruses CoV-1 and CoV-2. Physica A: Statistical Mechanics and Its Applications, 2021, 581, 126202.	1.2	5
268	The structure of enteric human adenovirus 41—A leading cause of diarrhea in children. Science Advances, 2021, 7, .	4.7	40
269	Biophysical Methods to Monitor Structural Aspects of the Adenovirus Infectious Cycle. Methods in Molecular Biology, 2014, 1089, 1-24.	0.4	1
270	Single Particle Cryo-electron Microscopy and 3-D Reconstruction of Viruses. Methods in Molecular Biology, 2014, 1117, 401-443.	0.4	132
271	Structural Organization and Protein-Protein Interactions in Human Adenovirus Capsid. Sub-Cellular Biochemistry, 2021, 96, 503-518.	1.0	10
272	Structure and Assembly of Complex Viruses. Sub-Cellular Biochemistry, 2013, 68, 329-360.	1.0	9
273	Combined Approaches to Study Virus Structures. Sub-Cellular Biochemistry, 2013, 68, 203-246.	1.0	3
274	Adenoviruses., 2019,,.		2
275	Electron Microscopy of Viruses: Techniques to Prepare Viruses and Viral Proteins for Observation by Electron Microscopyâ ⁻ †., 2014, , .		1
276	Purification and characterization of adenovirus core protein VII: a histone-like protein that is critical for adenovirus core formation. Journal of General Virology, 2017, 98, 1785-1794.	1.3	4
277	Conserved regions of bovine adenovirus-3 pVIII contain functional domains involved in nuclear localization and packaging in mature infectious virions. Journal of General Virology, 2014, 95, 1743-1754.	1.3	12
279	An Intrinsically Disordered Region of the Adenovirus Capsid Is Implicated in Neutralization by Human Alpha Defensin 5. PLoS ONE, 2013, 8, e61571.	1.1	44
280	Plaque2.0—A High-Throughput Analysis Framework to Score Virus-Cell Transmission and Clonal Cell Expansion. PLoS ONE, 2015, 10, e0138760.	1.1	44

#	Article	IF	Citations
281	Geometric architecture of viruses. World Journal of Virology, 2020, 9, 5-18.	1.3	12
282	A new topology of the HK97-like fold revealed in Bordetella bacteriophage by cryoEM at 3.5 Ã resolution. ELife, 2013, 2, e01299.	2.8	49
283	Imaging Flow Cytometry and Confocal Immunofluorescence Microscopy of Virus-Host Cell Interactions. Frontiers in Cellular and Infection Microbiology, 2021, 11, 749039.	1.8	4
285	Introduction to Capsid Architecture. , 2015, , 3-12.		O
291	Immunological Study of Reconstructed Common Ancestral Sequence of Adenovirus Hexon Protein. Frontiers in Microbiology, 2021, 12, 717047.	1.5	1
294	Combine Cryo-EM Density Map and Residue Contact for Protein Structure Prediction., 2020,,.		0
295	Structure of a Cell Entry Defective Human Adenovirus Provides Insights into Precursor Proteins and Capsid Maturation. Journal of Molecular Biology, 2022, 434, 167350.	2.0	4
296	Combining Cryo-EM Density Map and Residue Contact for Protein Secondary Structure Topologies. Molecules, 2021, 26, 7049.	1.7	0
297	Seeing and touching adenovirus: complementary approaches for understanding assembly and disassembly of a complex virion. Current Opinion in Virology, 2022, 52, 112-122.	2.6	11
298	Analysis of Recombinant Adenovirus Vectors by Ion Trap Charge Detection Mass Spectrometry: Accurate Molecular Weight Measurements beyond 150 MDa. Analytical Chemistry, 2022, 94, 1543-1551.	3.2	9
299	Breaking Entry-and Species Barriers: LentiBOOST® Plus Polybrene Enhances Transduction Efficacy of Dendritic Cells and Monocytes by Adenovirus 5. Viruses, 2022, 14, 92.	1.5	6
300	Structural parasitology of the malaria parasite Plasmodium falciparum. Trends in Biochemical Sciences, 2022, 47, 149-159.	3.7	4
301	Refined Capsid Structure of Human Adenovirus D26 at 3.4 Ã Resolution. Viruses, 2022, 14, 414.	1.5	1
302	ICTV Virus Taxonomy Profile: Adenoviridae 2022. Journal of General Virology, 2022, 103, .	1.3	76
303	Adenovirus entry: Stability, uncoating, and nuclear import. Molecular Microbiology, 2022, 118, 309-320.	1.2	11
304	Chapter 10. Transmission Cryo-electron Microscopy in Drug Discovery. RSC Drug Discovery Series, 0, , 263-276.	0.2	0
305	RANBP2 and USP9x regulate nuclear import of adenovirus minor coat protein Illa. PLoS Pathogens, 2022, 18, e1010588.	2.1	1
306	Cryo-electron tomography related radiation-damage parameters for individual-molecule 3D structure determination. Frontiers in Chemistry, 0, 10 , .	1.8	8

#	Article	IF	CITATIONS
307	Icosahedral gold nanoparticles decorated with hexon protein: a surrogate for adenovirus serotype 5. Analytical and Bioanalytical Chemistry, 0, , .	1.9	0
308	Human Adenovirus Gene Expression and Replication Is Regulated through Dynamic Changes in Nucleoprotein Structure throughout Infection. Viruses, 2023, 15, 161.	1.5	6
309	Resolution Revolution ${\bf \hat{a}} \in {\bf \hat{a}}$ Seeing the Molecules of Life With Electron Cryomicroscopy. Frontiers for Young Minds, 0, 11, .	0.8	0
310	Viral Conjunctivitis. Viruses, 2023, 15, 676.	1.5	6
311	Oncolytic Virusâ€Driven Biotherapies from Bench to Bedside. Small, 2023, 19, .	5.2	3
312	Label-free microscopy for virus infections. Microscopy (Oxford, England), 2023, 72, 204-212.	0.7	2
316	Human Adenovirus Vaccines., 2023,, 145-156.e7.		0
324	Virus assembly. , 2024, , 2131-2175.		O