# Andrew B Ward

List of Publications by Year
in descending order

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|---|---|---|---|
| 306 papers | 39,360 citations | 2215 99 h-index | 3732 179 g-index |
| 394 all docs | 394 docs citations | 394 times ranked | 27683 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | From structure to sequence: Antibody discovery using cryoEM. Science Advances, 2022, 8, eabk2039. | 10.3 | 18 |
| 2 | The Glycan Hole Area of HIV-1 Envelope Trimers Contributes Prominently to the Induction of Autologous Neutralization. Journal of Virology, 2022, 96, JVI0155221. | 3.4 | 13 |
| 3 | Broadly neutralizing antibodies target a haemagglutinin anchor epitope. Nature, 2022, 602, 314-320. | 27.8 | 78 |
| 4 | Structural insights into the Venus flytrap mechanosensitive ion channel Flycatcher1. Nature Communications, 2022, 13, 850. | 12.8 | 13 |
| 5 | High thermostability improves neutralizing antibody responses induced by native-like HIV-1 envelope trimers. Npj Vaccines, 2022, 7, 27. | 6.0 | 13 |
| 6 | Structure-guided changes at the V2 apex of HIV-1 clade C trimer enhance elicitation of autologous neutralizing and broad V1V2-scaffold antibodies. Cell Reports, 2022, 38, 110436. | 6.4 | 6 |
| 7 | Structural definition of a pan-sarbecovirus neutralizing epitope on the spike S2 subunit. Communications Biology, 2022, 5, 342. | 4.4 | 41 |
| 8 | A combination of potently neutralizing monoclonal antibodies isolated from an Indian convalescent donor protects against the SARS-CoV-2 Delta variant. PLoS Pathogens, 2022, 18, e1010465. | 4.7 | 8 |
| 9 | Structural mapping of antibody landscapes to human betacoronavirus spike proteins. Science Advances, 2022, 8, eabn2911. | 10.3 | 28 |
| 10 | Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120976119. | 7.1 | 27 |
| 11 | Influenza chimeric hemagglutinin structures in complex with broadly protective antibodies to the stem and trimer interface. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 10 |
| 12 | Conjugation of a Tollâ€Like Receptor Agonist to Glycans of an HIV Nativeâ€Like Envelope Trimer Preserves Neutralization Epitopes. ChemBioChem, 2022, 23, . | 2.6 | 4 |
| 13 | Targeted isolation of diverse human protective broadly neutralizing antibodies against SARS-like viruses. Nature Immunology, 2022, 23, 960-970. | 14.5 | 39 |
| 14 | The Pre-Existing Human Antibody Repertoire to Computationally Optimized Influenza H1 Hemagglutinin Vaccines. Journal of Immunology, 2022, 209, 5-15. | 0.8 | 5 |
| 15 | Polyclonal epitope mapping reveals temporal dynamics and diversity of human antibody responses to H5N1 vaccination. Cell Reports, 2021, 34, 108682. | 6.4 | 31 |
| 16 | Immunofocusing and enhancing autologous Tier-2 HIV-1 neutralization by displaying Env trimers on two-component protein nanoparticles. Npj Vaccines, 2021, 6, 24. | 6.0 | 33 |
| 17 | The C3/465 glycan hole cluster in BG505 HIV-1 envelope is the major neutralizing target involved in preventing mucosal SHIV infection. PLoS Pathogens, 2021, 17, e1009257. | 4.7 | 23 |
| 18 | Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. PLoS Pathogens, 2021, 17, e1009282. | 4.7 | 42 |

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|---|---|---|---|
| 19 | Influenza hemagglutinin-specific IgA Fc-effector functionality is restricted to stalk epitopes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 8 |
| 20 | Prominent Neutralizing Antibody Response Targeting the Ebolavirus Glycoprotein Subunit Interface Elicited by Immunization. Journal of Virology, 2021, 95, . | 3.4 | 6 |
| 21 | A cross-neutralizing antibody between HIV-1 and influenza virus. PLoS Pathogens, 2021, 17, e1009407. | 4.7 | 23 |
| 22 | Two-component spike nanoparticle vaccine protects macaques from SARS-CoV-2 infection. Cell, 2021, 184, 1188-1200.e19. | 28.9 | 154 |
| 23 | Extremely potent human monoclonal antibodies from COVID-19 convalescent patients. Cell, 2021, 184, 1821-1835.e16. | 28.9 | 180 |
| 24 | Elicitation of potent serum neutralizing antibody responses in rabbits by immunization with an HIV-1 clade C trimeric Env derived from an Indian elite neutralizer. PLoS Pathogens, 2021, 17, e1008977. | 4.7 | 4 |
| 25 | Enhancing glycan occupancy of soluble HIV-1 envelope trimers to mimic the native viral spike. Cell Reports, 2021, 35, 108933. | 6.4 | 37 |
| 26 | Convergence of a common solution for broad ebolavirus neutralization by glycan cap-directed human antibodies. Cell Reports, 2021, 35, 108984. | 6.4 | 22 |
| 27 | Structure and immune recognition of the porcine epidemic diarrhea virus spike protein. Structure, 2021, 29, 385-392.e5. | 3.3 | 37 |
| 28 | Cross-reactive serum and memory B-cell responses to spike protein in SARS-CoV-2 and endemic coronavirus infection. Nature Communications, 2021, 12, 2938. | 12.8 | 219 |
| 29 | Structural and functional ramifications of antigenic drift in recent SARS-CoV-2 variants. Science, 2021, 373, 818-823. | 12.6 | 309 |
| 30 | A combination of cross-neutralizing antibodies synergizes to prevent SARS-CoV-2 and SARS-CoV pseudovirus infection. Cell Host and Microbe, 2021, 29, 806-818.e6. | 11.0 | 49 |
| 31 | Mining HIV controllers for broad and functional antibodies to recognize and eliminate HIV-infected cells. Cell Reports, 2021, 35, 109167. | 6.4 | 8 |
| 32 | Single-component multilayered self-assembling nanoparticles presenting rationally designed glycoprotein trimers as Ebola virus vaccines. Nature Communications, 2021, 12, 2633. | 12.8 | 25 |
| 33 | First exposure to the pandemic H1N1 virus induced broadly neutralizing antibodies targeting hemagglutinin head epitopes. Science Translational Medicine, 2021, 13, . | 12.4 | 38 |
| 34 | Neutralizing Antibodies Induced by First-Generation gp41-Stabilized HIV-1 Envelope Trimers and Nanoparticles. MBio, 2021, 12, e0042921. | 4.1 | 6 |
| 35 | Disassembly of HIV envelope glycoprotein trimer immunogens is driven by antibodies elicited via immunization. Science Advances, 2021, 7, . | 10.3 | 37 |
| 36 | Isolation and characterization of cross-neutralizing coronavirus antibodies from COVID-19+ subjects. Cell Reports, 2021, 36, 109353. | 6.4 | 95 |

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| 37 | Human antibody recognition of H7N9 influenza virus HA following natural infection. JCI Insight, 2021, 6, . | 5.0 | 1 |
| 38 | Antibodies from Rabbits Immunized with HIV-1 Clade B SOSIP Trimers Can Neutralize Multiple Clade B Viruses by Destabilizing the Envelope Glycoprotein. Journal of Virology, 2021, 95, e0009421. | 3.4 | 5 |
| 39 | Antibody responses induced by SHIV infection are more focused than those induced by soluble native HIV-1 envelope trimers in non-human primates. PLoS Pathogens, 2021, 17, e1009736. | 4.7 | 18 |
| 40 | Murine Monoclonal Antibodies against the Receptor Binding Domain of SARS-CoV-2 Neutralize Authentic Wild-Type SARS-CoV-2 as Well as B.1.1.7 and B.1.351 Viruses and Protect In Vivo in a Mouse Model in a Neutralization-Dependent Manner. MBio, 2021, 12, e0100221. | 4.1 | 7 |
| 41 | Canonical features of human antibodies recognizing the influenza hemagglutinin trimer interface. Journal of Clinical Investigation, 2021, 131, . | 8.2 | 20 |
| 42 | Polyclonal antibody responses to HIV Env immunogens resolved using cryoEM. Nature Communications, 2021, 12, 4817. | 12.8 | 35 |
| 43 | Bispecific antibodies targeting distinct regions of the spike protein potently neutralize SARS-CoV-2 variants of concern. Science Translational Medicine, 2021, 13, eabj5413. | 12.4 | 79 |
| 44 | High-resolution mapping of the neutralizing and binding specificities of polyclonal sera post-HIV Env trimer vaccination. ELife, 2021, 10, . | 6.0 | 15 |
| 45 | One dose of COVID-19 nanoparticle vaccine REVC-128 protects against SARS-CoV-2 challenge at two weeks post-immunization. Emerging Microbes and Infections, 2021, 10, 2016-2029. | 6.5 | 12 |
| 46 | Pan-ebolavirus protective therapy by two multifunctional human antibodies. Cell, 2021, 184, 5593-5607.e18. | 28.9 | 21 |
| 47 | Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. Cell Reports, 2021, 37, 109922. | 6.4 | 5 |
| 48 | Structural Biology Illuminates Molecular Determinants of Broad Ebolavirus Neutralization by Human Antibodies for Pan-Ebolavirus Therapeutic Development. Frontiers in Immunology, 2021, 12, 808047. | 4.8 | 4 |
| 49 | Diverse Antibody Responses to Conserved Structural Motifs in Plasmodium falciparum Circumsporozoite Protein. Journal of Molecular Biology, 2020, 432, 1048-1063. | 4.2 | 28 |
| 50 | Neutralizing Antibody Responses Induced by HIV-1 Envelope Glycoprotein SOSIP Trimers Derived from Elite Neutralizers. Journal of Virology, 2020, 94, . | 3.4 | 11 |
| 51 | Structural analysis of full-length SARS-CoV-2 spike protein from an advanced vaccine candidate. Science, 2020, 370, 1089-1094. | 12.6 | 290 |
| 52 | Mapping Neutralizing Antibody Epitope Specificities to an HIV Env Trimer in Immunized and in Infected Rhesus Macaques. Cell Reports, 2020, 32, 108122. | 6.4 | 28 |
| 53 | An Alternative Binding Mode of IGHV3-53 Antibodies to the SARS-CoV-2 Receptor Binding Domain. Cell Reports, 2020, 33, 108274. | 6.4 | 152 |
| 54 | Adjuvanted H5N1 influenza vaccine enhances both cross-reactive memory B cell and strain-specific naive B cell responses in humans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17957-17964. | 7.1 | 57 |

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| 55 | A Vaccine Displaying a Trimeric Influenza-A HA Stem Protein on Capsid-Like Particles Elicits Potent and Long-Lasting Protection in Mice. Vaccines, 2020, 8, 389. | 4.4 | 13 |
| 56 | Discoveries in structure and physiology of mechanically activated ion channels. Nature, 2020, 587, 567-576. | 27.8 | 299 |
| 57 | Cross-Neutralization of a SARS-CoV-2 Antibody to a Functionally Conserved Site Is Mediated by Avidity. Immunity, 2020, 53, 1272-1280.e5. | 14.3 | 185 |
| 58 | Drivers of recombinant soluble influenza A virus hemagglutinin and neuraminidase expression in mammalian cells. Protein Science, 2020, 29, 1975-1982. | 7.6 | 6 |
| 59 | Structural and functional evaluation of de novo-designed, two-component nanoparticle carriers for HIV Env trimer immunogens. PLoS Pathogens, 2020, 16, e1008665. | 4.7 | 52 |
| 60 | Visualization of the HIV-1 Env glycan shield across scales. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28014-28025. | 7.1 | 57 |
| 61 | Polyreactive Broadly Neutralizing B cells Are Selected to Provide Defense against Pandemic Threat Influenza Viruses. Immunity, 2020, 53, 1230-1244.e5. | 14.3 | 61 |
| 62 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. PLoS Pathogens, 2020, 16, e1008753. | 4.7 | 61 |
| 63 | SARS-CoV-2 Infection Depends on Cellular Heparan Sulfate and ACE2. Cell, 2020, 183, 1043-1057.e15. | 28.9 | 860 |
| 64 | Human germinal centres engage memory and naive B cells after influenza vaccination. Nature, 2020, 586, 127-132. | 27.8 | 194 |
| 65 | Targeting HIV Env immunogens to B cell follicles in nonhuman primates through immune complex or protein nanoparticle formulations. Npj Vaccines, 2020, 5, 72. | 6.0 | 39 |
| 66 | A Strain-Specific Inhibitor of Receptor-Bound HIV-1 Targets a Pocket near the Fusion Peptide. Cell Reports, 2020, 33, 108428. | 6.4 | 5 |
| 67 | Quantification of the Resilience and Vulnerability of HIV-1 Native Glycan Shield at Atomistic Detail. IScience, 2020, 23, 101836. | 4.1 | 11 |
| 68 | Innovations in structure-based antigen design and immune monitoring for next generation vaccines. Current Opinion in Immunology, 2020, 65, 50-56. | 5.5 | 43 |
| 69 | HIV-1 Envelope and MPER Antibody Structures in Lipid Assemblies. Cell Reports, 2020, 31, 107583. | 6.4 | 60 |
| 70 | Vulnerabilities in coronavirus glycan shields despite extensive glycosylation. Nature Communications, 2020, 11, 2688. | 12.8 | 304 |
| 71 | Structural basis of broad HIV neutralization by a vaccine-induced cow antibody. Science Advances, 2020, 6, eaba0468. | 10.3 | 31 |
| 72 | Potent neutralizing antibodies from COVID-19 patients define multiple targets of vulnerability. Science, 2020, 369, 643-650. | 12.6 | 1,104 |

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| 73 | HIV envelope trimer-elicited autologous neutralizing antibodies bind a region overlapping the N332 glycan supersite. Science Advances, 2020, 6, eaba0512. | 10.3 | 18 |
| 74 | Harnessing Activin A Adjuvanticity to Promote Antibody Responses to BG505 HIV Envelope Trimers. Frontiers in Immunology, 2020, 11, 1213. | 4.8 | 4 |
| 75 | Mapping Polyclonal Antibody Responses in Non-human Primates Vaccinated with HIV Env Trimer Subunit Vaccines. Cell Reports, 2020, 30, 3755-3765.e7. | 6.4 | 81 |
| 76 | Structure and mechanism of monoclonal antibody binding to theÂjunctional epitope of Plasmodium falciparumÂcircumsporozoite protein. PLoS Pathogens, 2020, 16, e1008373. | 4.7 | 30 |
| 77 | Molecular Dynamics Simulations Studies of the Proton Channel Otopetrin and Other Mechanically-Activated Ion Channels. Biophysical Journal, 2020, 118, 274a-275a. | 0.5 | 0 |
| 78 | Networks of HIV-1 Envelope Glycans Maintain Antibody Epitopes in the Face of Glycan Additions and Deletions. Structure, 2020, 28, 897-909.e6. | 3.3 | 46 |
| 79 | Engineered immunogen binding to alum adjuvant enhances humoral immunity. Nature Medicine, 2020, 26, 430-440. | 30.7 | 172 |
| 80 | Analysis of a Therapeutic Antibody Cocktail Reveals Determinants for Cooperative and Broad Ebolavirus Neutralization. Immunity, 2020, 52, 388-403.e12. | 14.3 | 71 |
| 81 | Autologous Antibody Responses to an HIV Envelope Glycan Hole Are Not Easily Broadened in Rabbits. Journal of Virology, 2020, 94, . | 3.4 | 57 |
| 82 | Neutralizing Antibody Induction by HIV-1 Envelope Glycoprotein SOSIP Trimers on Iron Oxide Nanoparticles May Be Impaired by Mannose Binding Lectin. Journal of Virology, 2020, 94, . | 3.4 | 29 |
| 83 | Antiâ€“influenza H7 human antibody targets antigenic site in hemagglutinin head domain interface. Journal of Clinical Investigation, 2020, 130, 4734-4739. | 8.2 | 13 |
| 84 | A natural mutation between SARS-CoV-2 and SARS-CoV determines neutralization by a cross-reactive antibody. PLoS Pathogens, 2020, 16, e1009089. | 4.7 | 55 |
| 85 | Tailored design of protein nanoparticle scaffolds for multivalent presentation of viral glycoprotein antigens. ELife, 2020, 9, . | 6.0 | 123 |
| 86 | Title is missing!. , 2020, 16, e1008665. | | 0 |
| 87 | Title is missing!. , 2020, 16, e1008665. | | 0 |
| 88 | Title is missing!. , 2020, 16, e1008665. | | 0 |
| 89 | Title is missing!. , 2020, 16, e1008665. | | 0 |
| 90 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753. | | 0 |

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|---|---|---|---|
| 91 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753. | | 0 |
| 92 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753. | | 0 |
| 93 | Mapping the immunogenic landscape of near-native HIV-1 envelope trimers in non-human primates. , 2020, 16, e1008753. | | 0 |
| 94 | Similarities and differences between native HIV-1 envelope glycoprotein trimers and stabilized soluble trimer mimetics. PLoS Pathogens, 2019, 15, e1007920. | 4.7 | 61 |
| 95 | Differences in the Binding Affinity of an HIV-1 V2 Apex-Specific Antibody for the SIV <sub>smm/mac</sub> Envelope Glycoprotein Uncouple Antibody-Dependent Cellular Cytotoxicity from Neutralization. MBio, 2019, 10, . | 4.1 | 18 |
| 96 | Antibody-dependent enhancement of influenza disease promoted by increase in hemagglutinin stem flexibility and virus fusion kinetics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15194-15199. | 7.1 | 65 |
| 97 | Human monoclonal antibodies against chikungunya virus target multiple distinct epitopes in the E1 and E2 glycoproteins. PLoS Pathogens, 2019, 15, e1008061. | 4.7 | 35 |
| 98 | A generalized HIV vaccine design strategy for priming of broadly neutralizing antibody responses. Science, 2019, 366, . | 12.6 | 172 |
| 99 | Structural Definition of a Neutralization-Sensitive Epitope on the MERS-CoV S1-NTD. Cell Reports, 2019, 28, 3395-3405.e6. | 6.4 | 63 |
| 100 | Enhancing and shaping the immunogenicity of native-like HIV-1 envelope trimers with a two-component protein nanoparticle. Nature Communications, 2019, 10, 4272. | 12.8 | 149 |
| 101 | Potent anti-influenza H7 human monoclonal antibody induces separation of hemagglutinin receptor-binding head domains. PLoS Biology, 2019, 17, e3000139. | 5.6 | 37 |
| 102 | Structure of the SARS-CoV nsp12 polymerase bound to nsp7 and nsp8 co-factors. Nature Communications, 2019, 10, 2342. | 12.8 | 688 |
| 103 | Structure and immunogenicity of a stabilized HIV-1 envelope trimer based on a group-M consensus sequence. Nature Communications, 2019, 10, 2355. | 12.8 | 116 |
| 104 | Structures of the otopetrin proton channels Otop1 and Otop3. Nature Structural and Molecular Biology, 2019, 26, 518-525. | 8.2 | 48 |
| 105 | Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies. Cell Host and Microbe, 2019, 25, 873-883.e5. | 11.0 | 42 |
| 106 | Field-Based Affinity Optimization of a Novel Azabicyclohexane Scaffold HIV-1 Entry Inhibitor. Molecules, 2019, 24, 1581. | 3.8 | 8 |
| 107 | Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. Cell, 2019, 177, 1153-1171.e28. | 28.9 | 293 |
| 108 | The Chimpanzee SIV Envelope Trimer: Structure and Deployment as an HIV Vaccine Template. Cell Reports, 2019, 27, 2426-2441.e6. | 6.4 | 35 |

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| 109 | Structural Topology of Glycoprotein Surface Networks using High Throughput Atomistic Modeling and Graph Theory. Biophysical Journal, 2019, 116, 166a-167a. | 0.5 | 0 |
| 110 | A Site of Vulnerability on the Influenza Virus Hemagglutinin Head Domain Trimer Interface. Cell, 2019, 177, 1136-1152.e18. | 28.9 | 177 |
| 111 | Cryo-EM structure of the Ebola virus nucleoproteinâ€“RNA complex. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 340-347. | 0.8 | 17 |
| 112 | Antibody responses to viral infections: a structural perspective across three different enveloped viruses. Nature Microbiology, 2019, 4, 734-747. | 13.3 | 158 |
| 113 | Probing the Mechanosensing Features of Mammalian Piezo Channels and Plant OSCA Channels via Molecular Dynamics Simulations. Biophysical Journal, 2019, 116, 219a. | 0.5 | 1 |
| 114 | Developability Assessment of Physicochemical Properties and Stability Profiles of HIV-1 BG505 SOSIP.664 and BG505 SOSIP.v4.1-GT1.1 gp140 Envelope Glycoprotein Trimers as Candidate Vaccine Antigens. Journal of Pharmaceutical Sciences, 2019, 108, 2264-2277. | 3.3 | 16 |
| 115 | Stabilization of the V2 loop improves the presentation of V2 loopâ€“associated broadly neutralizing antibody epitopes on HIV-1 envelope trimers. Journal of Biological Chemistry, 2019, 294, 5616-5631. | 3.4 | 16 |
| 116 | The HIV-1 Envelope Glycoprotein C3/V4 Region Defines a Prevalent Neutralization Epitope following Immunization. Cell Reports, 2019, 27, 586-598.e6. | 6.4 | 32 |
| 117 | Capturing the inherent structural dynamics of the HIV-1 envelope glycoprotein fusion peptide. Nature Communications, 2019, 10, 763. | 12.8 | 30 |
| 118 | Playing Chess with HIV. Immunity, 2019, 50, 283-285. | 14.3 | 0 |
| 119 | SOS and IP Modifications Predominantly Affect the Yield but Not Other Properties of SOSIP.664 HIV-1 Env Glycoprotein Trimers. Journal of Virology, 2019, 94, . | 3.4 | 4 |
| 120 | Vaccination with Glycan-Modified HIV NFL Envelope Trimer-Liposomes Elicits Broadly Neutralizing Antibodies to Multiple Sites of Vulnerability. Immunity, 2019, 51, 915-929.e7. | 14.3 | 111 |
| 121 | An MPER antibody neutralizes HIV-1 using germline features shared among donors. Nature Communications, 2019, 10, 5389. | 12.8 | 44 |
| 122 | Structural Basis of Protection against H7N9 Influenza Virus by Human Anti-N9 Neuraminidase Antibodies. Cell Host and Microbe, 2019, 26, 729-738.e4. | 11.0 | 51 |
| 123 | Influenza H7N9 Virus Neuraminidase-Specific Human Monoclonal Antibodies Inhibit Viral Egress and Protect from Lethal Influenza Infection in Mice. Cell Host and Microbe, 2019, 26, 715-728.e8. | 11.0 | 49 |
| 124 | Vaccine-Induced Protection from Homologous Tier 2 SHIV Challenge in Nonhuman Primates Depends on Serum-Neutralizing Antibody Titers. Immunity, 2019, 50, 241-252.e6. | 14.3 | 153 |
| 125 | Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. Journal of Molecular Biology, 2019, 431, 842-856. | 4.2 | 36 |
| 126 | Closing and Opening Holes in the Glycan Shield of HIV-1 Envelope Glycoprotein SOSIP Trimers Can Redirect the Neutralizing Antibody Response to the Newly Unmasked Epitopes. Journal of Virology, 2019, 93, . | 3.4 | 66 |

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| 127 | Rational design of a trispecific antibody targeting the HIV-1 Env with elevated anti-viral activity. Nature Communications, 2018, 9, 877. | 12.8 | 65 |
| 128 | Effects of Adjuvants on HIV-1 Envelope Glycoprotein SOSIP Trimers In Vitro. Journal of Virology, 2018, 92, . | 3.4 | 34 |
| 129 | Glycosylation of Human IgA Directly Inhibits Influenza A and Other Sialic-Acid-Binding Viruses. Cell Reports, 2018, 23, 90-99. | 6.4 | 80 |
| 130 | Envelope proteins of two HIV-1 clades induced different epitope-specific antibody response. Vaccine, 2018, 36, 1627-1636. | 3.8 | 11 |
| 131 | Integrity of Glycosylation Processing of a Glycan-Depleted Trimeric HIV-1 Immunogen Targeting Key B-Cell Lineages. Journal of Proteome Research, 2018, 17, 987-999. | 3.7 | 23 |
| 132 | Structure of the mechanically activated ion channel Piezo1. Nature, 2018, 554, 481-486. | 27.8 | 401 |
| 133 | Structure and Immune Recognition of the HIV Glycan Shield. Annual Review of Biophysics, 2018, 47, 499-523. | 10.0 | 115 |
| 134 | Stabilization of the gp120 V3 loop through hydrophobic interactions reduces the immunodominant V3-directed non-neutralizing response to HIV-1 envelope trimers. Journal of Biological Chemistry, 2018, 293, 1688-1701. | 3.4 | 40 |
| 135 | cGMP production and analysis of BG505 SOSIP.664, an extensively glycosylated, trimeric HIVâ€1 envelope glycoprotein vaccine candidate. Biotechnology and Bioengineering, 2018, 115, 885-899. | 3.3 | 75 |
| 136 | P-C5 Broadly neutralizing nanobodies selected from dromedary immune libraries with subtype C SOSIP Env glycoproteins: Optimization and preclinical development. Journal of Acquired Immune Deficiency Syndromes (1999), 2018, 77, 58-58. | 2.1 | 0 |
| 137 | HIV-1 vaccine design through minimizing envelope metastability. Science Advances, 2018, 4, eaau6769. | 10.3 | 75 |
| 138 | Deception through Mimicry: A Cellular Antiviral Strategy. Cell, 2018, 175, 1728-1729. | 28.9 | 0 |
| 139 | Development of Smartphone Accelerometer-Based Airfield Friction Assessment Tools. Transportation Research Record, 2018, 2672, 95-105. | 1.9 | 1 |
| 140 | Cryo-EM structure of P. falciparum circumsporozoite protein with a vaccine-elicited antibody is stabilized by somatically mutated inter-Fab contacts. Science Advances, 2018, 4, eaau8529. | 10.3 | 70 |
| 141 | Stabilized coronavirus spikes are resistant to conformational changes induced by receptor recognition or proteolysis. Scientific Reports, 2018, 8, 15701. | 3.3 | 408 |
| 142 | Universal protection against influenza infection by a multidomain antibody to influenza hemagglutinin. Science, 2018, 362, 598-602. | 12.6 | 170 |
| 143 | Structural Basis of Pan-Ebolavirus Neutralization by an Antibody Targeting the Glycoprotein Fusion Loop. Cell Reports, 2018, 24, 2723-2732.e4. | 6.4 | 26 |
| 144 | Rational Design of DNA-Expressed Stabilized Native-Like HIV-1 Envelope Trimers. Cell Reports, 2018, 24, 3324-3338.e5. | 6.4 | 49 |

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|---|---|---|---|
| 145 | Differential processing of HIV envelope glycans on the virus and soluble recombinant trimer. Nature Communications, 2018, 9, 3693. | 12.8 | 124 |
| 146 | Structure of a cleavage-independent HIV Env recapitulates the glycoprotein architecture of the native cleaved trimer. Nature Communications, 2018, 9, 1956. | 12.8 | 50 |
| 147 | Development of Clinical-Stage Human Monoclonal Antibodies That Treat Advanced Ebola Virus Disease in Nonhuman Primates. Journal of Infectious Diseases, 2018, 218, S612-S626. | 4.0 | 146 |
| 148 | Structural and immunologic correlates of chemically stabilized HIV-1 envelope glycoproteins. PLoS Pathogens, 2018, 14, e1006986. | 4.7 | 28 |
| 149 | Electron-Microscopy-Based Epitope Mapping Defines Specificities of Polyclonal Antibodies Elicited during HIV-1 BG505 Envelope Trimer Immunization. Immunity, 2018, 49, 288-300.e8. | 14.3 | 175 |
| 150 | Cleavage-Independent HIV-1 Trimers From CHO Cell Lines Elicit Robust Autologous Tier 2 Neutralizing Antibodies. Frontiers in Immunology, 2018, 9, 1116. | 4.8 | 27 |
| 151 | Multifunctional Pan-ebolavirus Antibody Recognizes a Site of Broad Vulnerability on the Ebolavirus Glycoprotein. Immunity, 2018, 49, 363-374.e10. | 14.3 | 61 |
| 152 | A multifunctional human monoclonal neutralizing antibody that targets a unique conserved epitope on influenza HA. Nature Communications, 2018, 9, 2669. | 12.8 | 67 |
| 153 | Broadly neutralizing antibodies from human survivors target a conserved site in the Ebola virus glycoprotein HR2â€“MPER region. Nature Microbiology, 2018, 3, 670-677. | 13.3 | 68 |
| 154 | Systematic Analysis of Monoclonal Antibodies against Ebola Virus GP Defines Features that Contribute to Protection. Cell, 2018, 174, 938-952.e13. | 28.9 | 173 |
| 155 | Co-evolution of HIV Envelope and Apex-Targeting Neutralizing Antibody Lineage Provides Benchmarks for Vaccine Design. Cell Reports, 2018, 23, 3249-3261. | 6.4 | 52 |
| 156 | Epitopes for neutralizing antibodies induced by HIV-1 envelope glycoprotein BG505 SOSIP trimers in rabbits and macaques. PLoS Pathogens, 2018, 14, e1006913. | 4.7 | 111 |
| 157 | Structure of the human volume regulated anion channel. ELife, 2018, 7, . | 6.0 | 91 |
| 158 | OSCA/TMEM63 are an evolutionarily conserved family of mechanically activated ion channels. ELife, 2018, 7, . | 6.0 | 230 |
| 159 | Cryo-EM structure of the mechanically activated ion channel OSCA1.2. ELife, 2018, 7, . | 6.0 | 118 |
| 160 | The <scp>HIV</scp>â€1 envelope glycoprotein structure: nailing down a moving target. Immunological Reviews, 2017, 275, 21-32. | 6.0 | 251 |
| 161 | Differential Antibody Responses to Conserved HIV-1 Neutralizing Epitopes in the Context of Multivalent Scaffolds and Native-Like gp140 Trimers. MBio, 2017, 8, . | 4.1 | 28 |
| 162 | Cooperativity Enables Non-neutralizing Antibodies to Neutralize Ebolavirus. Cell Reports, 2017, 19, 413-424. | 6.4 | 66 |

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