

TimothÃ©e Bruel

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

9,272
citations

159585

30
h-index

91884

69
g-index

106
all docs

106
docs citations

106
times ranked

14845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Reduced sensitivity of SARS-CoV-2 variant Delta to antibody neutralization. <i>Nature</i> , 2021, 596, 276-280. | 27.8 | 1,803 |
| 2 | Considerable escape of SARS-CoV-2 Omicron to antibody neutralization. <i>Nature</i> , 2022, 602, 671-675. | 27.8 | 1,202 |
| 3 | IgA dominates the early neutralizing antibody response to SARS-CoV-2. <i>Science Translational Medicine</i> , 2021, 13, . | 12.4 | 840 |
| 4 | Sensitivity of infectious SARS-CoV-2 B.1.1.7 and B.1.351 variants to neutralizing antibodies. <i>Nature Medicine</i> , 2021, 27, 917-924. | 30.7 | 617 |
| 5 | Syncytia formation by SARS-CoV-2-infected cells. <i>EMBO Journal</i> , 2020, 39, e106267. | 7.8 | 361 |
| 6 | Serum neutralization of SARS-CoV-2 Omicron sublineages BA.1 and BA.2 in patients receiving monoclonal antibodies. <i>Nature Medicine</i> , 2022, 28, 1297-1302. | 30.7 | 235 |
| 7 | A comparison of four serological assays for detecting anti-SARS-CoV-2 antibodies in human serum samples from different populations. <i>Science Translational Medicine</i> , 2020, 12, . | 12.4 | 228 |
| 8 | CD32a is a marker of a CD4 T-cell HIV reservoir harbouring replication-competent proviruses. <i>Nature</i> , 2017, 543, 564-567. | 27.8 | 224 |
| 9 | Elimination of HIV-1-infected cells by broadly neutralizing antibodies. <i>Nature Communications</i> , 2016, 7, 10844. | 12.8 | 201 |
| 10 | IFITM Proteins Incorporated into HIV-1 Virions Impair Viral Fusion and Spread. <i>Cell Host and Microbe</i> , 2014, 16, 736-747. | 11.0 | 184 |
| 11 | Evolution of antibody responses up to 13 months after SARS-CoV-2 infection and risk of reinfection. <i>EBioMedicine</i> , 2021, 71, 103561. | 6.1 | 172 |
| 12 | SARS-CoV-2 infection induces the dedifferentiation of multiciliated cells and impairs mucociliary clearance. <i>Nature Communications</i> , 2021, 12, 4354. | 12.8 | 154 |
| 13 | Rapid decline of neutralizing antibodies against SARS-CoV-2 among infected healthcare workers. <i>Nature Communications</i> , 2021, 12, 844. | 12.8 | 146 |
| 14 | Zika virus induces massive cytoplasmic vacuolization and paraptosis-like death in infected cells. <i>EMBO Journal</i> , 2017, 36, 1653-1668. | 7.8 | 118 |
| 15 | Distinct systemic and mucosal immune responses during acute SARS-CoV-2 infection. <i>Nature Immunology</i> , 2021, 22, 1428-1439. | 14.5 | 110 |
| 16 | Serologic responses to SARS-CoV-2 infection among hospital staff with mild disease in eastern France. <i>EBioMedicine</i> , 2020, 59, 102915. | 6.1 | 101 |
| 17 | Considerable escape of SARS-CoV-2 Omicron to antibody neutralization. <i>Nature</i> , 0, , . | 27.8 | 88 |
| 18 | A human immune system mouse model with robust lymph node development. <i>Nature Methods</i> , 2018, 15, 623-630. | 19.0 | 78 |

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|----|--|------|-----------|
| 19 | Multiplex assays for the identification of serological signatures of SARS-CoV-2 infection: an antibody-based diagnostic and machine learning study. <i>Lancet Microbe</i> , The, 2021, 2, e60-e69. | 7.3 | 78 |
| 20 | SARS-CoV-2 infection in schools in a northern French city: a retrospective serological cohort study in an area of high transmission, France, January to April 2020. <i>Eurosurveillance</i> , 2021, 26, . | 7.0 | 69 |
| 21 | Sex Differences in the Evolution of Neutralizing Antibodies to Severe Acute Respiratory Syndrome Coronavirus 2. <i>Journal of Infectious Diseases</i> , 2021, 224, 983-988. | 4.0 | 65 |
| 22 | Ultrasensitive HIV-1 p24 Assay Detects Single Infected Cells and Differences in Reservoir Induction by Latency Reversal Agents. <i>Journal of Virology</i> , 2017, 91, . | 3.4 | 64 |
| 23 | Asymptomatic and symptomatic SARS-CoV-2 infections elicit polyfunctional antibodies. <i>Cell Reports Medicine</i> , 2021, 2, 100275. | 6.5 | 64 |
| 24 | Plasmacytoid Dendritic Cell Dynamics Tune Interferon-Alpha Production in SIV-Infected Cynomolgus Macaques. <i>PLoS Pathogens</i> , 2014, 10, e1003915. | 4.7 | 63 |
| 25 | Lack of ADCC Breadth of Human Nonneutralizing Anti-HIV-1 Antibodies. <i>Journal of Virology</i> , 2017, 91, . | 3.4 | 63 |
| 26 | Cluster of COVID-19 in Northern France: A Retrospective Closed Cohort Study. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 57 |
| 27 | Structural Basis for Broad HIV-1 Neutralization by the MPER-Specific Human Broadly Neutralizing Antibody LN01. <i>Cell Host and Microbe</i> , 2019, 26, 623-637.e8. | 11.0 | 56 |
| 28 | Expression and Immunogenicity of the Mycobacterial Ag85B/ESAT-6 Antigens Produced in Transgenic Plants by Elastin-Like Peptide Fusion Strategy. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-14. | 3.0 | 51 |
| 29 | Conformational Plasticity in Broadly Neutralizing HIV-1 Antibodies Triggers Polyreactivity. <i>Cell Reports</i> , 2018, 23, 2568-2581. | 6.4 | 46 |
| 30 | A fourth dose of the mRNA-1273 SARS-CoV-2 vaccine improves serum neutralization against the Delta variant in kidney transplant recipients. <i>Kidney International</i> , 2022, 101, 1073-1076. | 5.2 | 44 |
| 31 | HIV-1 cell-to-cell transmission and broadly neutralizing antibodies. <i>Retrovirology</i> , 2018, 15, 51. | 2.0 | 43 |
| 32 | Epithelial induction of porcine suppressor of cytokine signaling 2 (SOCS2) gene expression in response to <i>Entamoeba histolytica</i> . <i>Developmental and Comparative Immunology</i> , 2010, 34, 562-571. | 2.3 | 39 |
| 33 | Immunogenicity of BNT162b2 vaccine against the Alpha and Delta variants in immunocompromised patients with systemic inflammatory diseases. <i>Annals of the Rheumatic Diseases</i> , 2022, 81, 720-728. | 0.9 | 39 |
| 34 | Sera Neutralizing Activities Against Severe Acute Respiratory Syndrome Coronavirus 2 and Multiple Variants 6 Months After Hospitalization for Coronavirus Disease 2019. <i>Clinical Infectious Diseases</i> , 2021, 73, e1337-e1344. | 5.8 | 35 |
| 35 | Potent human broadly SARS-CoV-2 neutralizing IgA and IgG antibodies effective against Omicron BA.1 and BA.2. <i>Journal of Experimental Medicine</i> , 2022, 219, . | 8.5 | 34 |
| 36 | Kinetics of the Severe Acute Respiratory Syndrome Coronavirus 2 Antibody Response and Serological Estimation of Time Since Infection. <i>Journal of Infectious Diseases</i> , 2021, 224, 1489-1499. | 4.0 | 32 |

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|----|--|------|-----------|
| 37 | Immune checkpoint inhibitors increase T cell immunity during SARS-CoV-2 infection. <i>Science Advances</i> , 2021, 7, . | 10.3 | 27 |
| 38 | Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120976119. | 7.1 | 27 |
| 39 | Anti-HIV-1 antibodies trigger non-lytic complement deposition on infected cells. <i>EMBO Reports</i> , 2020, 21, e49351. | 4.5 | 26 |
| 40 | Identification of DAXX as a restriction factor of SARS-CoV-2 through a CRISPR/Cas9 screen. <i>Nature Communications</i> , 2022, 13, 2442. | 12.8 | 25 |
| 41 | HIV Fusion in Dendritic Cells Occurs Mainly at the Surface and Is Limited by Low CD4 Levels. <i>Journal of Virology</i> , 2017, 91, . | 3.4 | 24 |
| 42 | Accelerated thymopoiesis and improved T cell responses in HLA-A2/DR2 transgenic B6-based human immune system mice. <i>European Journal of Immunology</i> , 2019, 49, 954-965. | 2.9 | 24 |
| 43 | Anti-CD38 therapy impairs SARS-CoV-2 vaccine response against alpha and delta variants in patients with multiple myeloma. <i>Blood</i> , 2022, 139, 942-946. | 1.4 | 24 |
| 44 | SAMHD1 Limits HIV-1 Antigen Presentation by Monocyte-Derived Dendritic Cells. <i>Journal of Virology</i> , 2015, 89, 6994-7006. | 3.4 | 23 |
| 45 | Targeting SARS-CoV-2 receptor-binding domain to cells expressing CD40 improves protection to infection in convalescent macaques. <i>Nature Communications</i> , 2021, 12, 5215. | 12.8 | 22 |
| 46 | Long-Term Control of Simian Immunodeficiency Virus (SIV) in Cynomolgus Macaques Not Associated with Efficient SIV-Specific CD8 ⁺ T-Cell Responses. <i>Journal of Virology</i> , 2015, 89, 3542-3556. | 3.4 | 21 |
| 47 | HIV-1 Envelope Recognition by Polyreactive and Cross-Reactive Intestinal B Cells. <i>Cell Reports</i> , 2019, 27, 572-585.e7. | 6.4 | 21 |
| 48 | Markers of the HIV-1 reservoir. <i>Current Opinion in HIV and AIDS</i> , 2018, 13, 383-388. | 3.8 | 19 |
| 49 | Release of infectious virus and cytokines in nasopharyngeal swabs from individuals infected with non-alpha or alpha SARS-CoV-2 variants: an observational retrospective study. <i>EBioMedicine</i> , 2021, 73, 103637. | 6.1 | 19 |
| 50 | Broadly neutralizing anti-HIV-1 antibodies tether viral particles at the surface of infected cells. <i>Nature Communications</i> , 2022, 13, 630. | 12.8 | 19 |
| 51 | Dendritic Cells from HIV Controllers Have Low Susceptibility to HIV-1 Infection In Vitro but High Capacity to Capture HIV-1 Particles. <i>PLoS ONE</i> , 2016, 11, e0160251. | 2.5 | 18 |
| 52 | Phagocytosis by an HIV antibody is associated with reduced viremia irrespective of enhanced complement lysis. <i>Nature Communications</i> , 2022, 13, 662. | 12.8 | 18 |
| 53 | COVID-19 outbreak in vaccinated patients from a haemodialysis unit: antibody titres as a marker of protection from infection. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, 1357-1365. | 0.7 | 17 |
| 54 | Flow Cytometry Analysis of HIV-1 Env Conformations at the Surface of Infected Cells and Virions: Role of Nef, CD4, and SERINC5. <i>Journal of Virology</i> , 2020, 94, . | 3.4 | 16 |

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|----|---|------|-----------|
| 55 | Broadly neutralizing antibodies suppress post-transcytosis HIV-1 infectivity. <i>Mucosal Immunology</i> , 2017, 10, 814-826. | 6.0 | 13 |
| 56 | Kinetics of the SARS-CoV-2 Antibody Avidity Response Following Infection and Vaccination. <i>Viruses</i> , 2022, 14, 1491. | 3.3 | 13 |
| 57 | Porcine colon explants in the study of innate immune response to <i>Entamoeba histolytica</i> . <i>Veterinary Immunology and Immunopathology</i> , 2012, 145, 611-617. | 1.2 | 12 |
| 58 | Towards the Establishment of a Porcine Model to Study Human Amebiasis. <i>PLoS ONE</i> , 2011, 6, e28795. | 2.5 | 12 |
| 59 | Stage-specific IFN-induced and IFN gene expression reveal convergence of type I and type II IFN and highlight their role in both acute and chronic stage of pathogenic SIV infection. <i>PLoS ONE</i> , 2018, 13, e0190334. | 2.5 | 10 |
| 60 | Robust and Functional Immune Memory Up to 9 Months After SARS-CoV-2 Infection: A Southeast Asian Longitudinal Cohort. <i>Frontiers in Immunology</i> , 2022, 13, 817905. | 4.8 | 10 |
| 61 | Fusogenicity and neutralization sensitivity of the SARS-CoV-2 Delta sublineage AY.4.2. <i>EBioMedicine</i> , 2022, 77, 103934. | 6.1 | 10 |
| 62 | CD4-mimetic sulfopeptide conjugates display sub-nanomolar anti-HIV-1 activity and protect macaques against a SHIV162P3 vaginal challenge. <i>Scientific Reports</i> , 2016, 6, 34829. | 3.3 | 7 |
| 63 | Revisiting an IgG Fc Loss-of-Function Experiment: the Role of Complement in HIV Broadly Neutralizing Antibody b12 Activity. <i>MBio</i> , 2021, 12, e0174321. | 4.1 | 7 |
| 64 | Characteristics Associated with Olfactory and Taste Disorders in COVID-19. <i>Neuroepidemiology</i> , 2021, 55, 381-386. | 2.3 | 6 |
| 65 | HIV-1 Envelope FRETted Over by Antibodies. <i>Cell Host and Microbe</i> , 2019, 25, 767-768. | 11.0 | 3 |
| 66 | Case Report: Evolution of Humoral and Cellular Immunity in Two COVID-19 Breakthrough Infections After BNT162b2 Vaccine. <i>Frontiers in Immunology</i> , 2022, 13, 790212. | 4.8 | 3 |
| 67 | Transmission of SARS-CoV-2 Alpha Variant (B.1.1.7) From a BNT162b2-Vaccinated Individual. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofab369. | 0.9 | 2 |
| 68 | Persistence of Sera Neutralizing Activity Six Month after Hospitalization for COVID-19. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 69 | Structural Basis for Broad HIV-1 Neutralization by a Novel MPER-Specific Human Broadly Neutralizing Antibody. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |