

Steven E Bosinger

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112 papers	5,634 citations	39 h-index	74 g-index
124 ext. papers	7,588 ext. citations	13.7 avg, IF	5.22 L-index

#	Paper	IF	Citations
112	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. <i>Science</i> , 2020 , 369, 1210-1220	33.3	485
111	Type I interferon responses in rhesus macaques prevent SIV infection and slow disease progression. <i>Nature</i> , 2014 , 511, 601-5	50.4	324
110	Global genomic analysis reveals rapid control of a robust innate response in SIV-infected sooty mangabeys. <i>Journal of Clinical Investigation</i> , 2009 , 119, 3556-72	15.9	312
109	Interferon-mediated immunopathological events are associated with atypical innate and adaptive immune responses in patients with severe acute respiratory syndrome. <i>Journal of Virology</i> , 2007 , 81, 8692-706	6.6	297
108	Severe depletion of mucosal CD4+ T cells in AIDS-free simian immunodeficiency virus-infected sooty mangabeys. <i>Journal of Immunology</i> , 2007 , 179, 3026-34	5.3	232
107	Regulation of tyrosine kinase activation and granule release through beta-arrestin by CXCR1. <i>Nature Immunology</i> , 2000 , 1, 227-33	19.1	203
106	Natural SIV hosts: showing AIDS the door. <i>Science</i> , 2012 , 335, 1188-93	33.3	200
105	Low levels of SIV infection in sooty mangabey central memory CD4 ^{hi} T cells are associated with limited CCR5 expression. <i>Nature Medicine</i> , 2011 , 17, 830-6	50.5	173
104	Type I and Type III Interferons Restrict SARS-CoV-2 Infection of Human Airway Epithelial Cultures. <i>Journal of Virology</i> , 2020 , 94,	6.6	152
103	Comparative transcriptomics of extreme phenotypes of human HIV-1 infection and SIV infection in sooty mangabey and rhesus macaque. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2391-400	15.9	144
102	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019 , 177, 1153-1171.e28	56.2	143
101	A new rhesus macaque assembly and annotation for next-generation sequencing analyses. <i>Biology Direct</i> , 2014 , 9, 20	7.2	122
100	PD-1 blockade during chronic SIV infection reduces hyperimmune activation and microbial translocation in rhesus macaques. <i>Journal of Clinical Investigation</i> , 2012 , 122, 1712-6	15.9	114
99	CD8(+) Lymphocytes Are Required for Maintaining Viral Suppression in SIV-Infected Macaques Treated with Short-Term Antiretroviral Therapy. <i>Immunity</i> , 2016 , 45, 656-668	32.3	112
98	Systems biology of immunity to MF59-adjuvanted versus nonadjuvanted trivalent seasonal influenza vaccines in early childhood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1853-8	11.5	111
97	Vascular Disease and Thrombosis in SARS-CoV-2-Infected Rhesus Macaques. <i>Cell</i> , 2020 , 183, 1354-1366.e13	56.2	108
96	Systemic HIV and SIV latency reversal via non-canonical NF- κ B signalling in vivo. <i>Nature</i> , 2020 , 578, 160-165	50.4	102

95	Antibiotic failure mediated by a resistant subpopulation in <i>Enterobacter cloacae</i> . <i>Nature Microbiology</i> , 2016 , 1, 16053	26.6	99
94	Gene expression profiling of host response in models of acute HIV infection. <i>Journal of Immunology</i> , 2004 , 173, 6858-63	5.3	91
93	Dynamics of SIV-specific CXCR5+ CD8 T cells during chronic SIV infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1976-1981	11.5	85
92	Plasmacytoid dendritic cells are recruited to the colorectum and contribute to immune activation during pathogenic SIV infection in rhesus macaques. <i>Blood</i> , 2011 , 118, 2763-73	2.2	85
91	Baricitinib treatment resolves lower-airway macrophage inflammation and neutrophil recruitment in SARS-CoV-2-infected rhesus macaques. <i>Cell</i> , 2021 , 184, 460-475.e21	56.2	84
90	Interleukin-21 combined with ART reduces inflammation and viral reservoir in SIV-infected macaques. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4497-513	15.9	81
89	Robust and persistent reactivation of SIV and HIV by N-803 and depletion of CD8 cells. <i>Nature</i> , 2020 , 578, 154-159	50.4	70
88	Caspase-8 Collaborates with Caspase-11 to Drive Tissue Damage and Execution of Endotoxic Shock. <i>Immunity</i> , 2018 , 49, 42-55.e6	32.3	68
87	mTOR regulates metabolic adaptation of APCs in the lung and controls the outcome of allergic inflammation. <i>Science</i> , 2017 , 357, 1014-1021	33.3	68
86	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021 , 596, 410-416	50.4	67
85	The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	62
84	Decreased T Follicular Regulatory Cell/T Follicular Helper Cell (TFH) in Simian Immunodeficiency Virus-Infected Rhesus Macaques May Contribute to Accumulation of TFH in Chronic Infection. <i>Journal of Immunology</i> , 2015 , 195, 3237-47	5.3	61
83	Limited HIV infection of central memory and stem cell memory CD4+ T cells is associated with lack of progression in viremic individuals. <i>PLoS Pathogens</i> , 2014 , 10, e1004345	7.6	61
82	Adjuvanting a Simian Immunodeficiency Virus Vaccine with Toll-Like Receptor Ligands Encapsulated in Nanoparticles Induces Persistent Antibody Responses and Enhanced Protection in TRIM5 ^Δ Restrictive Macaques. <i>Journal of Virology</i> , 2017 , 91,	6.6	58
81	Type I interferon: understanding its role in HIV pathogenesis and therapy. <i>Current HIV/AIDS Reports</i> , 2015 , 12, 41-53	5.9	58
80	Sooty mangabey genome sequence provides insight into AIDS resistance in a natural SIV host. <i>Nature</i> , 2018 , 553, 77-81	50.4	57
79	Generalized immune activation and innate immune responses in simian immunodeficiency virus infection. <i>Current Opinion in HIV and AIDS</i> , 2011 , 6, 411-8	4.2	50
78	Combination anti-PD-1 and antiretroviral therapy provides therapeutic benefit against SIV. <i>JCI Insight</i> , 2018 , 3,	9.9	49

77	Divergent CD4+ T memory stem cell dynamics in pathogenic and nonpathogenic simian immunodeficiency virus infections. <i>Journal of Immunology</i> , 2014 , 192, 4666-73	5.3	46
76	Protection afforded by an HIV vaccine candidate in macaques depends on the dose of SIVmac251 at challenge exposure. <i>Journal of Virology</i> , 2013 , 87, 3538-48	6.6	46
75	Treatment of SIV-infected sooty mangabeys with a type-I IFN agonist results in decreased virus replication without inducing hyperimmune activation. <i>Blood</i> , 2012 , 119, 5750-7	2.2	44
74	Transcriptome analysis of GVHD reveals aurora kinase A as a targetable pathway for disease prevention. <i>Science Translational Medicine</i> , 2015 , 7, 315ra191	17.5	41
73	Molecular characterization of in vivo adjuvant activity in ferrets vaccinated against influenza virus. <i>Journal of Virology</i> , 2010 , 84, 8369-88	6.6	39
72	Differential Impact of In Vivo CD8+ T Lymphocyte Depletion in Controller versus Progressor Simian Immunodeficiency Virus-Infected Macaques. <i>Journal of Virology</i> , 2015 , 89, 8677-86	6.6	38
71	BALDR: a computational pipeline for paired heavy and light chain immunoglobulin reconstruction in single-cell RNA-seq data. <i>Genome Medicine</i> , 2018 , 10, 20	14.4	37
70	The role of chemokines and chemokine receptors in alloantigen-independent and alloantigen-dependent transplantation injury. <i>Seminars in Immunology</i> , 2003 , 15, 33-48	10.7	35
69	A modified vaccinia Ankara vector-based vaccine protects macaques from SARS-CoV-2 infection, immune pathology, and dysfunction in the lungs. <i>Immunity</i> , 2021 , 54, 542-556.e9	32.3	35
68	Expression profiling of murine double-negative regulatory T cells suggest mechanisms for prolonged cardiac allograft survival. <i>Journal of Immunology</i> , 2005 , 174, 4535-44	5.3	31
67	The Effect of Chloroquine on Immune Activation and Interferon Signatures Associated with HIV-1. <i>AIDS Research and Human Retroviruses</i> , 2016 , 32, 636-47	1.6	26
66	Intact type I Interferon production and IRF7 function in sooty mangabeys. <i>PLoS Pathogens</i> , 2013 , 9, e1003597	3.6	26
65	West Nile Virus-Inclusive Single-Cell RNA Sequencing Reveals Heterogeneity in the Type I Interferon Response within Single Cells. <i>Journal of Virology</i> , 2019 , 93,	6.6	26
64	Distinct amino acid and lipid perturbations characterize acute versus chronic malaria. <i>JCI Insight</i> , 2019 , 4,	9.9	23
63	CXCL10 contributes to p38-mediated apoptosis in primary T lymphocytes in vitro. <i>Cytokine</i> , 2012 , 59, 433-41	4	23
62	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021 , 184, 3915-3935.e21	56.2	23
61	Systems biology of natural simian immunodeficiency virus infections. <i>Current Opinion in HIV and AIDS</i> , 2012 , 7, 71-8	4.2	22
60	Cloning, expression and immunoassay detection of ferret IFN-gamma. <i>Developmental and Comparative Immunology</i> , 2008 , 32, 890-7	3.2	21

59	Increased irritability, anxiety, and immune reactivity in transgenic Huntington's disease monkeys. <i>Brain, Behavior, and Immunity</i> , 2016 , 58, 181-190	16.6	20
58	The IDO inhibitor 1-methyl tryptophan activates the aryl hydrocarbon receptor response in mesenchymal stromal cells. <i>Oncotarget</i> , 2017 , 8, 91914-91927	3.3	20
57	Alterations of redox and iron metabolism accompany the development of HIV latency. <i>EMBO Journal</i> , 2020 , 39, e102209	13	20
56	Type I IFN signaling blockade by a PASylated antagonist during chronic SIV infection suppresses specific inflammatory pathways but does not alter T cell activation or virus replication. <i>PLoS Pathogens</i> , 2018 , 14, e1007246	7.6	19
55	Lymph Node Cellular and Viral Dynamics in Natural Hosts and Impact for HIV Cure Strategies. <i>Frontiers in Immunology</i> , 2018 , 9, 780	8.4	18
54	Cloning, expression and characterization of ferret CXCL10. <i>Molecular Immunology</i> , 2008 , 45, 1288-97	4.3	18
53	Phase II Trial of Costimulation Blockade With Abatacept for Prevention of Acute GVHD. <i>Journal of Clinical Oncology</i> , 2021 , 39, 1865-1877	2.2	18
52	Short-Term Pegylated Interferon α Treatment Does Not Significantly Reduce the Viral Reservoir of Simian Immunodeficiency Virus-Infected, Antiretroviral Therapy-Treated Rhesus Macaques. <i>Journal of Virology</i> , 2018 , 92,	6.6	17
51	Tenofovir disoproxil fumarate intravaginal ring for HIV pre-exposure prophylaxis in sexually active women: a phase 1, single-blind, randomised, controlled trial. <i>Lancet HIV</i> , 2019 , 6, e498-e508	7.8	17
50	Reduced Chronic Lymphocyte Activation following Interferon Alpha Blockade during the Acute Phase of Simian Immunodeficiency Virus Infection in Rhesus Macaques. <i>Journal of Virology</i> , 2018 , 92,	6.6	16
49	Type I and Type III IFN Restrict SARS-CoV-2 Infection of Human Airway Epithelial Cultures		16
48	Reduced Simian Immunodeficiency Virus Replication in Macrophages of Sooty Mangabeys Is Associated with Increased Expression of Host Restriction Factors. <i>Journal of Virology</i> , 2015 , 89, 10136-44	6.6	13
47	Species-specific host factors rather than virus-intrinsic virulence determine primate lentiviral pathogenicity. <i>Nature Communications</i> , 2018 , 9, 1371	17.4	13
46	Simian immunodeficiency virus-induced alterations in monocyte production of tumor necrosis factor alpha contribute to reduced immune activation in sooty mangabeys. <i>Journal of Virology</i> , 2012 , 86, 7605-15	6.6	12
45	Antiretroviral Therapy in Simian Immunodeficiency Virus-Infected Sooty Mangabeys: Implications for AIDS Pathogenesis. <i>Journal of Virology</i> , 2016 , 90, 7541-7551	6.6	11
44	CCR2 Signaling Restricts SARS-CoV-2 Infection. <i>MBio</i> , 2021 , e0274921	7.8	11
43	Antibody-Mediated CD4 Depletion Induces Homeostatic CD4 T Cell Proliferation without Detectable Virus Reactivation in Antiretroviral Therapy-Treated Simian Immunodeficiency Virus-Infected Macaques. <i>Journal of Virology</i> , 2018 , 92,	6.6	11
42	Plasmacytoid Dendritic Cell Infection and Sensing Capacity during Pathogenic and Nonpathogenic Simian Immunodeficiency Virus Infection. <i>Journal of Virology</i> , 2015 , 89, 6918-27	6.6	10

41	Hormonal contraception alters vaginal microbiota and cytokines in South African adolescents in a randomized trial. <i>Nature Communications</i> , 2020 , 11, 5578	17.4	9
40	Enhanced methamphetamine metabolism in rhesus macaque as compared with human: an analysis using a novel method of liquid chromatography with tandem mass spectrometry, kinetic study, and substrate docking. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 2097-108	4	8
39	Innate, non-cytolytic CD8+ T cell-mediated suppression of HIV replication by MHC-independent inhibition of virus transcription. <i>PLoS Pathogens</i> , 2020 , 16, e1008821	7.6	8
38	CCR5 blockade is well tolerated and induces changes in the tissue distribution of CCR5+ and CD25+ T cells in healthy, SIV-uninfected rhesus macaques. <i>Journal of Medical Primatology</i> , 2012 , 41, 24-42	0.7	7
37	Transcriptional profiling of experimental CD8(+) lymphocyte depletion in rhesus macaques infected with simian immunodeficiency virus SIVmac239. <i>Journal of Virology</i> , 2013 , 87, 433-43	6.6	7
36	Systems biological analyses reveal the hepatitis C virus (HCV)-specific regulation of hematopoietic development. <i>Hepatology</i> , 2015 , 61, 843-56	11.2	6
35	Correlates of Protection Against SIV Infection in Rhesus Macaques Immunized With Chimpanzee-Derived Adenovirus Vectors. <i>EBioMedicine</i> , 2018 , 31, 25-35	8.8	6
34	Correlates of relative resistance against low-dose rectal simian immunodeficiency virus challenges in peripheral blood mononuclear cells of vaccinated rhesus macaques. <i>Journal of Leukocyte Biology</i> , 2013 , 93, 437-48	6.5	6
33	Impact of Hormonal Contraceptives on Cervical T-helper 17 Phenotype and Function in Adolescents: Results from a Randomized, Crossover Study Comparing Long-acting Injectable Norethisterone Oenanthate (NET-EN), Combined Oral Contraceptive Pills, and Combined Contraceptive Vaginal Rings. <i>Clinical Infectious Diseases</i> , 2020 , 71, e76-e87	11.6	6
32	IL-21 and IFN γ therapy rescues terminally differentiated NK cells and limits SIV reservoir in ART-treated macaques. <i>Nature Communications</i> , 2021 , 12, 2866	17.4	6
31	Clinical and whole genome characterization of SARS-CoV-2 in India. <i>PLoS ONE</i> , 2021 , 16, e0246173	3.7	6
30	Macrophage-associated wound healing contributes to African green monkey SIV pathogenesis control. <i>Nature Communications</i> , 2019 , 10, 5101	17.4	5
29	Transcriptomic and Metabolic Responses to a Live-Attenuated Vaccine. <i>Vaccines</i> , 2020 , 8,	5.3	5
28	Chromatin accessibility and transcription dynamics during in vitro astrocyte differentiation of Huntington's Disease Monkey pluripotent stem cells. <i>Epigenetics and Chromatin</i> , 2019 , 12, 67	5.8	5
27	Early T follicular helper cell activity accelerates hepatitis C virus-specific B cell expansion. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	5
26	Short Communication: Transgender Women on Feminizing Hormone Therapy Demonstrate a Distinct Rectal Mucosal Transcriptome from Cisgender Men. <i>AIDS Research and Human Retroviruses</i> , 2020 , 36, 771-774	1.6	4
25	Nef-Mediated CD3-TCR Downmodulation Dampens Acute Inflammation and Promotes SIV Immune Evasion. <i>Cell Reports</i> , 2020 , 30, 2261-2274.e7	10.6	4
24	Slow delivery immunization enhances HIV neutralizing antibody and germinal center responses via modulation of immunodominance		4

23	Alterations in the Human Plasma Lipidome in Response to Tularemia Vaccination. <i>Vaccines</i> , 2020 , 8,	5.3	4
22	CCR2-dependent monocyte-derived cells restrict SARS-CoV-2 infection 2021 ,		4
21	Delineation and Modulation of the Natural Killer Cell Transcriptome in Rhesus Macaques During ZIKV and SIV Infections. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 194	5.9	3
20	Coexpression Network Analysis of Benign and Malignant Phenotypes of SIV-Infected Sooty Mangabey and Rhesus Macaque. <i>PLoS ONE</i> , 2016 , 11, e0156170	3.7	3
19	Baricitinib treatment resolves lower airway inflammation and neutrophil recruitment in SARS-CoV-2-infected rhesus macaques 2020 ,		3
18	Progestin-based contraception regimens modulate expression of putative HIV risk factors in the vaginal epithelium of pig-tailed Macaques. <i>American Journal of Reproductive Immunology</i> , 2018 , 80, e13029	3.8	2
17	From structure to sequence: Antibody discovery using cryoEM.. <i>Science Advances</i> , 2022 , 8, eabk2039	14.3	2
16	Increased IL-6 expression precedes reliable viral detection in the rhesus macaque brain during acute SIV infection. <i>JCI Insight</i> , 2021 , 6,	9.9	2
15	TREM2+ and interstitial macrophages orchestrate airway inflammation in SARS-CoV-2 infection in rhesus macaques 2021 ,		2
14	West Nile virus-inclusive single-cell RNA sequencing reveals heterogeneity in the type I interferon response within single cells		2
13	Immunophenotyping assessment in a COVID-19 cohort (IMPACC): A prospective longitudinal study. <i>Science Immunology</i> , 2021 , 6,	28	2
12	Longitudinally Tracked, Rapid and Robust Antigen-Specific Germinal Center Responses in Non-Human Primates after a Single Nanoparticle Vaccine Immunization. <i>SSRN Electronic Journal</i> ,	1	1
11	Luminal microvesicles uniquely influence translocating bacteria after SIV infection. <i>Mucosal Immunology</i> , 2021 , 14, 937-948	9.2	1
10	From Structure to Sequence: Identification of polyclonal antibody families using cryoEM		1
9	Differences in vaginal microbiota, host transcriptome and proteins in women with bacterial vaginosis are associated with metronidazole treatment response. <i>Journal of Infectious Diseases</i> , 2021 ,	7	1
8	Tissue-specific transcriptional profiling of plasmacytoid dendritic cells reveals a hyperactivated state in chronic SIV infection. <i>PLoS Pathogens</i> , 2021 , 17, e1009674	7.6	1
7	Infiltration of inflammatory macrophages and neutrophils and widespread pyroptosis in lung drive influenza lethality in nonhuman primates.. <i>PLoS Pathogens</i> , 2022 , 18, e1010395	7.6	0
6	Innate Immunity in Simian Immunodeficiency Virus Infection 2014 , 135-172		

- 5 Molecular Control of Leukocyte Trafficking Internal Regulatory Circuits of the Immune System: Leukocyte Circulation and Homing. *NeuroImmune Biology*, **2005**, 5, 185-214
- 4 Predicting Immune Pathology after Hematopoietic Stem Cell Transplant with Transcriptomics: Naïve CD4 T Cell Expansion at Day 100 Predicts Patients with De Novo Chronic Gvhd. *Blood*, **2020**, 136, 38-39 2.2
- 3 Transcriptomic Analysis of CD4+ T Cell Dysfunction during Gvhd: Evidence for Profound Reprogramming of T Cell Signaling during Acute Gvhd That Is Controlled during CD28:CD80/86 Costimulation Blockade with Abatacept. *Blood*, **2019**, 134, 596-596 2.2
- 2 Defining the Primate T Cell Transcriptome during Graft Versus Host Disease: New Data Implicating the Hedgehog and Aurora Kinase Pathways in Pathogenesis and Prevention. *Blood*, **2014**, 124, 2432-2432 2.2
- 1 A neutralizing antibody target in early HIV-1 infection was recapitulated in rhesus macaques immunized with the transmitted/founder envelope sequence.. *PLoS Pathogens*, **2022**, 18, e1010488 7.6