

# Steven E Bosinger

## List of Publications by Year in descending order

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Version: 2024-02-01

111  
papers

8,712  
citations

57752

44  
h-index

49904

87  
g-index

124  
all docs

124  
docs citations

124  
times ranked

13612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. <i>Science</i> , 2020, 369, 1210-1220.	12.6	947
2	Type I interferon responses in rhesus macaques prevent SIV infection and slow disease progression. <i>Nature</i> , 2014, 511, 601-605.	27.8	422
3	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, 8692-8706.	3.4	353
4	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.	8.2	351
5	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021, 596, 410-416.	27.8	313
6	Slow Delivery Immunization Enhances HIV Neutralizing Antibody and Germinal Center Responses via Modulation of Immunodominance. <i>Cell</i> , 2019, 177, 1153-1171.e28.	28.9	293
7	Natural SIV Hosts: Showing AIDS the Door. <i>Science</i> , 2012, 335, 1188-1193.	12.6	278
8	Severe Depletion of Mucosal CD4+ T Cells in AIDS-Free Simian Immunodeficiency Virus-Infected Sooty Mangabeys. <i>Journal of Immunology</i> , 2007, 179, 3026-3034.	0.8	260
9	Type I and Type III Interferons Restrict SARS-CoV-2 Infection of Human Airway Epithelial Cultures. <i>Journal of Virology</i> , 2020, 94, .	3.4	250
10	Regulation of tyrosine kinase activation and granule release through $\beta$ 2-arrestin by CXCR1. <i>Nature Immunology</i> , 2000, 1, 227-233.	14.5	215
11	Systemic HIV and SIV latency reversal via non-canonical NF- $\kappa$ B signalling in vivo. <i>Nature</i> , 2020, 578, 160-165.	27.8	210
12	Low levels of SIV infection in sooty mangabey central memory CD4+ T cells are associated with limited CCR5 expression. <i>Nature Medicine</i> , 2011, 17, 830-836.	30.7	206
13	Vascular Disease and Thrombosis in SARS-CoV-2-Infected Rhesus Macaques. <i>Cell</i> , 2020, 183, 1354-1366.e13.	28.9	184
14	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.	14.3	178
15	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, 1853-1858.	7.1	176
16	Antibiotic failure mediated by a resistant subpopulation in <i>Enterobacter cloacae</i> . <i>Nature Microbiology</i> , 2016, 1, 16053.	13.3	169
17	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, 2391-2400.	8.2	168
18	A new rhesus macaque assembly and annotation for next-generation sequencing analyses. <i>Biology Direct</i> , 2014, 9, 20.	4.6	165

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19	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.	28.9	156
20	Robust and persistent reactivation of SIV and HIV by N-803 and depletion of CD8+ cells. <i>Nature</i> , 2020, 578, 154-159.	27.8	141
21	PD-1 blockade during chronic SIV infection reduces hyperimmune activation and microbial translocation in rhesus macaques. <i>Journal of Clinical Investigation</i> , 2012, 122, 1712-1716.	8.2	138
22	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021, 184, 3915-3935.e21.	28.9	133
23	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.	7.1	119
24	The human naive B cell repertoire contains distinct subclasses for a germline-targeting HIV-1 vaccine immunogen. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	113
25	Phase II Trial of Costimulation Blockade With Abatacept for Prevention of Acute GVHD. <i>Journal of Clinical Oncology</i> , 2021, 39, 1865-1877.	1.6	111
26	Caspase-8 Collaborates with Caspase-11 to Drive Tissue Damage and Execution of Endotoxic Shock. <i>Immunity</i> , 2018, 49, 42-55.e6.	14.3	106
27	Interleukin-21 combined with ART reduces inflammation and viral reservoir in SIV-infected macaques. <i>Journal of Clinical Investigation</i> , 2015, 125, 4497-4513.	8.2	104
28	mTOR regulates metabolic adaptation of APCs in the lung and controls the outcome of allergic inflammation. <i>Science</i> , 2017, 357, 1014-1021.	12.6	98
29	Gene Expression Profiling of Host Response in Models of Acute HIV Infection. <i>Journal of Immunology</i> , 2004, 173, 6858-6863.	0.8	97
30	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, 2763-2773.	1.4	97
31	Type I Interferon: Understanding Its Role in HIV Pathogenesis and Therapy. <i>Current HIV/AIDS Reports</i> , 2015, 12, 41-53.	3.1	90
32	Combination anti-PD-1 and antiretroviral therapy provides therapeutic benefit against SIV. <i>JCI Insight</i> , 2018, 3, .	5.0	83
33	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, 3237-3247.	0.8	81
34	Sooty mangabey genome sequence provides insight into AIDS resistance in a natural SIV host. <i>Nature</i> , 2018, 553, 77-81.	27.8	81
35	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.	4.7	76
36	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.	14.3	72

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37	Adjuvanting a Simian Immunodeficiency Virus Vaccine with Toll-Like Receptor Ligands Encapsulated in Nanoparticles Induces Persistent Antibody Responses and Enhanced Protection in TRIM5 $\Delta$ Restrictive Macaques. <i>Journal of Virology</i> , 2017, 91, .	3.4	70
38	Transcriptome analysis of GVHD reveals aurora kinase A as a targetable pathway for disease prevention. <i>Science Translational Medicine</i> , 2015, 7, 315ra191.	12.4	64
39	Generalized immune activation and innate immune responses in simian immunodeficiency virus infection. <i>Current Opinion in HIV and AIDS</i> , 2011, 6, 411-418.	3.8	61
40	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.	8.2	60
41	Differential Impact of <i>In Vivo</i> CD8 <sup>+</sup> T Lymphocyte Depletion in Controller versus Progressor Simian Immunodeficiency Virus-Infected Macaques. <i>Journal of Virology</i> , 2015, 89, 8677-8686.	3.4	58
42	Divergent CD4 <sup>+</sup> T Memory Stem Cell Dynamics in Pathogenic and Nonpathogenic Simian Immunodeficiency Virus Infections. <i>Journal of Immunology</i> , 2014, 192, 4666-4673.	0.8	57
43	Protection Afforded by an HIV Vaccine Candidate in Macaques Depends on the Dose of SIV <sub>mac251</sub> at Challenge Exposure. <i>Journal of Virology</i> , 2013, 87, 3538-3548.	3.4	52
44	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, 5750-5757.	1.4	51
45	Distinct amino acid and lipid perturbations characterize acute versus chronic malaria. <i>JCI Insight</i> , 2019, 4, .	5.0	46
46	Molecular Characterization of <i>In Vivo</i> Adjuvant Activity in Ferrets Vaccinated against Influenza Virus. <i>Journal of Virology</i> , 2010, 84, 8369-8388.	3.4	45
47	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, .	3.4	42
48	The role of chemokines and chemokine receptors in alloantigen-independent and alloantigen-dependent transplantation injury. <i>Seminars in Immunology</i> , 2003, 15, 33-48.	5.6	41
49	CCR2 Signaling Restricts SARS-CoV-2 Infection. <i>MBio</i> , 2021, 12, e0274921.	4.1	38
50	Alterations of redox and iron metabolism accompany the development of HIV latency. <i>EMBO Journal</i> , 2020, 39, e102209.	7.8	37
51	CXCL10 contributes to p38-mediated apoptosis in primary T lymphocytes in vitro. <i>Cytokine</i> , 2012, 59, 433-441.	3.2	35
52	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.	4.7	35
53	The Effect of Chloroquine on Immune Activation and Interferon Signatures Associated with HIV-1. <i>AIDS Research and Human Retroviruses</i> , 2016, 32, 636-647.	1.1	34
54	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.	4.7	33

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55	Expression Profiling of Murine Double-Negative Regulatory T Cells Suggest Mechanisms for Prolonged Cardiac Allograft Survival. <i>Journal of Immunology</i> , 2005, 174, 4535-4544.	0.8	32
56	Intact Type I Interferon Production and IRF7 Function in Sooty Mangabeys. <i>PLoS Pathogens</i> , 2013, 9, e1003597.	4.7	30
57	Hormonal contraception alters vaginal microbiota and cytokines in South African adolescents in a randomized trial. <i>Nature Communications</i> , 2020, 11, 5578.	12.8	30
58	Lymph Node Cellular and Viral Dynamics in Natural Hosts and Impact for HIV Cure Strategies. <i>Frontiers in Immunology</i> , 2018, 9, 780.	4.8	29
59	Increased irritability, anxiety, and immune reactivity in transgenic Huntingtonâ€™s disease monkeys. <i>Brain, Behavior, and Immunity</i> , 2016, 58, 181-190.	4.1	26
60	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.	4.7	26
61	Systems biology of natural simian immunodeficiency virus infections. <i>Current Opinion in HIV and AIDS</i> , 2012, 7, 71-78.	3.8	25
62	The IDO inhibitor 1-methyl tryptophan activates the aryl hydrocarbon receptor response in mesenchymal stromal cells. <i>Oncotarget</i> , 2017, 8, 91914-91927.	1.8	25
63	Cloning, expression and immunoassay detection of ferret IFN-Î³. <i>Developmental and Comparative Immunology</i> , 2008, 32, 890-897.	2.3	24
64	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, .	3.4	23
65	IL-21 and IFNÎ± therapy rescues terminally differentiated NK cells and limits SIV reservoir in ART-treated macaques. <i>Nature Communications</i> , 2021, 12, 2866.	12.8	23
66	Infiltration of inflammatory macrophages and neutrophils and widespread pyroptosis in lung drive influenza lethality in nonhuman primates. <i>PLoS Pathogens</i> , 2022, 18, e1010395.	4.7	23
67	Species-specific host factors rather than virus-intrinsic virulence determine primate lentiviral pathogenicity. <i>Nature Communications</i> , 2018, 9, 1371.	12.8	20
68	Immunophenotyping assessment in a COVID-19 cohort (IMPACC): A prospective longitudinal study. <i>Science Immunology</i> , 2021, 6, .	11.9	20
69	Short-Term Pegylated Interferon Î±2a 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, .	3.4	19
70	Cloning, expression and characterization of ferret CXCL10. <i>Molecular Immunology</i> , 2008, 45, 1288-1297.	2.2	18
71	From structure to sequence: Antibody discovery using cryoEM. <i>Science Advances</i> , 2022, 8, eabk2039.	10.3	18
72	Interleukin-10 contributes to reservoir establishment and persistence in SIV-infected macaques treated with antiretroviral therapy. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	18

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73	Macrophage-associated wound healing contributes to African green monkey SIV pathogenesis control. <i>Nature Communications</i> , 2019, 10, 5101.	12.8	17
74	Transcriptomic and Metabolic Responses to a Live-Attenuated <i>Francisella tularensis</i> Vaccine. <i>Vaccines</i> , 2020, 8, 412.	4.4	17
75	Antibody-Mediated CD4 Depletion Induces Homeostatic CD4 <sup>+</sup> T Cell Proliferation without Detectable Virus Reactivation in Antiretroviral Therapy-Treated Simian Immunodeficiency Virus-Infected Macaques. <i>Journal of Virology</i> , 2018, 92, .	3.4	15
76	Early T follicular helper cell activity accelerates hepatitis C virus-specific B cell expansion. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	15
77	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, 10136-10144.	3.4	14
78	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, 7605-7615.	3.4	13
79	Antiretroviral Therapy in Simian Immunodeficiency Virus-Infected Sooty Mangabeys: Implications for AIDS Pathogenesis. <i>Journal of Virology</i> , 2016, 90, 7541-7551.	3.4	13
80	Correlates of Protection Against SIVmac251 Infection in Rhesus Macaques Immunized With Chimpanzee-Derived Adenovirus Vectors. <i>EBioMedicine</i> , 2018, 31, 25-35.	6.1	13
81	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.	5.8	13
82	Clinical and whole genome characterization of SARS-CoV-2 in India. <i>PLoS ONE</i> , 2021, 16, e0246173.	2.5	12
83	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, 2097-2108.	3.3	11
84	Plasmacytoid Dendritic Cell Infection and Sensing Capacity during Pathogenic and Nonpathogenic Simian Immunodeficiency Virus Infection. <i>Journal of Virology</i> , 2015, 89, 6918-6927.	3.4	11
85	Lymph node CXCR5 <sup>+</sup> NK cells associate with control of chronic SHIV infection. <i>JCI Insight</i> , 2022, 7, .	5.0	11
86	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.	3.9	10
87	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, 224, 2094-2104.	4.0	10
88	Primate genomes for biomedicine. <i>Nature Biotechnology</i> , 2011, 29, 983-984.	17.5	9
89	Alterations in the Human Plasma Lipidome in Response to Tularemia Vaccination. <i>Vaccines</i> , 2020, 8, 414.	4.4	9
90	Increased IL-6 expression precedes reliable viral detection in the rhesus macaque brain during acute SIV infection. <i>JCI Insight</i> , 2021, 6, .	5.0	8

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91	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.	0.6	7
92	Transcriptional Profiling of Experimental CD8 <sup>+</sup> Lymphocyte Depletion in Rhesus Macaques Infected with Simian Immunodeficiency Virus SIVmac239. <i>Journal of Virology</i> , 2013, 87, 433-443.	3.4	7
93	Inflammation and Infection in Critical Care Medicine. <i>Mediators of Inflammation</i> , 2014, 2014, 1-2.	3.0	7
94	Coexpression Network Analysis of Benign and Malignant Phenotypes of SIV-Infected Sooty Mangabey and Rhesus Macaque. <i>PLoS ONE</i> , 2016, 11, e0156170.	2.5	7
95	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> , 2012, 93, 437-448.	3.3	6
96	Systems biological analyses reveal the hepatitis C virus (HCV)-specific regulation of hematopoietic development. <i>Hepatology</i> , 2015, 61, 843-856.	7.3	6
97	Nef-Mediated CD3-TCR Downmodulation Dampens Acute Inflammation and Promotes SIV Immune Evasion. <i>Cell Reports</i> , 2020, 30, 2261-2274.e7.	6.4	6
98	Tissue-specific transcriptional profiling of plasmacytoid dendritic cells reveals a hyperactivated state in chronic SIV infection. <i>PLoS Pathogens</i> , 2021, 17, e1009674.	4.7	6
99	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.	1.1	5
100	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.	1.2	4
101	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.	3.9	3
102	Luminal microvesicles uniquely influence translocating bacteria after SIV infection. <i>Mucosal Immunology</i> , 2021, 14, 937-948.	6.0	3
103	A neutralizing antibody target in early HIV-1 infection was recapitulated in rhesus macaques immunized with the transmitted/founder envelope sequence. <i>PLoS Pathogens</i> , 2022, 18, e1010488.	4.7	3
104	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> , 0, .	0.4	1
105	Nonpathogenic SIV Infection of Sooty Mangabeys. , 2018, , 1555-1565.		1
106	Systems Analysis Reveals Contraceptive-Induced Alteration of Cervicovaginal Gene Expression in a Randomized Trial. <i>Frontiers in Reproductive Health</i> , 2022, 4, .	1.9	1
107	Molecular Control of Leukocyte Trafficking Internal Regulatory Circuits of the Immune System: Leukocyte Circulation and Homing. <i>NeuroImmune Biology</i> , 2005, 5, 185-214.	0.2	0
108	Innate Immunity in Simian Immunodeficiency Virus Infection. , 2014, , 135-172.		0

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109	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.	1.4	0
110	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.	1.4	0
111	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.	1.4	0