

Bruce S Klein

List of Publications by Citations

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114
papers

4,419
citations

39
h-index

63
g-index

118
ext. papers

5,353
ext. citations

9.3
avg, IF

5.61
L-index

#	Paper	IF	Citations
114	Isolation of <i>Blastomyces dermatitidis</i> in soil associated with a large outbreak of blastomycosis in Wisconsin. <i>New England Journal of Medicine</i> , 1986 , 314, 529-34	59.2	306
113	Global control of dimorphism and virulence in fungi. <i>Science</i> , 2006 , 312, 583-8	33.3	285
112	Dimorphism and virulence in fungi. <i>Current Opinion in Microbiology</i> , 2007 , 10, 314-9	7.9	189
111	Vaccine-induced protection against 3 systemic mycoses endemic to North America requires Th17 cells in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 554-68	15.9	182
110	Pulmonary neuroendocrine cells amplify allergic asthma responses. <i>Science</i> , 2018 , 360,	33.3	175
109	Vaccine immunity to pathogenic fungi overcomes the requirement for CD4 help in exogenous antigen presentation to CD8+ T cells: implications for vaccine development in immune-deficient hosts. <i>Journal of Experimental Medicine</i> , 2003 , 197, 1405-16	16.6	154
108	Adaptive immunity to fungi. <i>Annual Review of Immunology</i> , 2012 , 30, 115-48	34.7	153
107	Targeted gene disruption reveals an adhesin indispensable for pathogenicity of <i>Blastomyces dermatitidis</i> . <i>Journal of Experimental Medicine</i> , 1999 , 189, 1207-16	16.6	132
106	T cell receptor cross-reactivity between similar foreign and self peptides influences naive cell population size and autoimmunity. <i>Immunity</i> , 2015 , 42, 95-107	32.3	108
105	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. <i>MBio</i> , 2020 , 11,	7.8	94
104	Clinical Manifestations and Treatment of Blastomycosis. <i>Clinics in Chest Medicine</i> , 2017 , 38, 435-449	5.3	84
103	<i>Agrobacterium tumefaciens</i> integrates transfer DNA into single chromosomal sites of dimorphic fungi and yields homokaryotic progeny from multinucleate yeast. <i>Eukaryotic Cell</i> , 2002 , 1, 895-905		77
102	Tc17 cells mediate vaccine immunity against lethal fungal pneumonia in immune deficient hosts lacking CD4+ T cells. <i>PLoS Pathogens</i> , 2012 , 8, e1002771	7.6	74
101	C-type lectin receptors differentially induce th17 cells and vaccine immunity to the endemic mycosis of North America. <i>Journal of Immunology</i> , 2014 , 192, 1107-1119	5.3	73
100	Mutation of the WI-1 gene yields an attenuated <i>blastomyces dermatitidis</i> strain that induces host resistance. <i>Journal of Clinical Investigation</i> , 2000 , 106, 1381-9	15.9	69
99	BAD1, an essential virulence factor of <i>Blastomyces dermatitidis</i> , suppresses host TNF-alpha production through TGF-beta-dependent and -independent mechanisms. <i>Journal of Immunology</i> , 2002 , 168, 5746-55	5.3	61
98	Vaccine immunity to coccidioidomycosis occurs by early activation of three signal pathways of T helper cell response (Th1, Th2, and Th17). <i>Infection and Immunity</i> , 2011 , 79, 4511-22	3.7	60

97	The WI-1 adhesin blocks phagocyte TNF-alpha production, imparting pathogenicity on <i>Blastomyces dermatitidis</i> . <i>Journal of Immunology</i> , 2001 , 166, 2665-73	5.3	60
96	A large community outbreak of blastomycosis in Wisconsin with geographic and ethnic clustering. <i>Clinical Infectious Diseases</i> , 2013 , 57, 655-62	11.6	59
95	Adaptive immunity to fungi. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 5, a019612	5.4	56
94	Development of a highly sensitive and specific blastomycosis antibody enzyme immunoassay using <i>Blastomyces dermatitidis</i> surface protein BAD-1. <i>Vaccine Journal</i> , 2014 , 21, 143-6		56
93	Requisite elements in vaccine immunity to <i>Blastomyces dermatitidis</i> : plasticity uncovers vaccine potential in immune-deficient hosts. <i>Journal of Immunology</i> , 2002 , 169, 6969-76	5.3	55
92	Fungal adaptation to the mammalian host: it is a new world, after all. <i>Current Opinion in Microbiology</i> , 2008 , 11, 511-6	7.9	54
91	<i>Aspergillus fumigatus</i> Copper Export Machinery and Reactive Oxygen Intermediate Defense Counter Host Copper-Mediated Oxidative Antimicrobial Offense. <i>Cell Reports</i> , 2017 , 19, 1008-1021	10.6	52
90	SREB, a GATA transcription factor that directs disparate fates in <i>Blastomyces dermatitidis</i> including morphogenesis and siderophore biosynthesis. <i>PLoS Pathogens</i> , 2010 , 6, e1000846	7.6	52
89	The Dynamic Genome and Transcriptome of the Human Fungal Pathogen <i>Blastomyces</i> and Close Relative <i>Emmonsia</i> . <i>PLoS Genetics</i> , 2015 , 11, e1005493	6	51
88	Exploiting type 3 complement receptor for TNF-alpha suppression, immune evasion, and progressive pulmonary fungal infection. <i>Journal of Immunology</i> , 2004 , 173, 7444-53	5.3	51
87	Cell wall biogenesis of <i>Blastomyces dermatitidis</i> . Evidence for a novel mechanism of cell surface localization of a virulence-associated adhesin via extracellular release and reassociation with cell wall chitin. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7925-34	5.4	51
86	The Eng1 β Glucanase Enhances <i>Histoplasma</i> Virulence by Reducing β Glucan Exposure. <i>MBio</i> , 2016 , 7, e01388-15	7.8	51
85	Chitin elicits CCL2 from airway epithelial cells and induces CCR2-dependent innate allergic inflammation in the lung. <i>Journal of Immunology</i> , 2012 , 189, 2545-52	5.3	50
84	Fungi subvert vaccine T cell priming at the respiratory mucosa by preventing chemokine-induced influx of inflammatory monocytes. <i>Immunity</i> , 2012 , 36, 680-92	32.3	49
83	A C-terminal EGF-like domain governs BAD1 localization to the yeast surface and fungal adherence to phagocytes, but is dispensable in immune modulation and pathogenicity of <i>Blastomyces dermatitidis</i> . <i>Molecular Microbiology</i> , 2003 , 48, 53-65	4.1	48
82	Genomic cloning, characterization, and functional analysis of the major surface adhesin WI-1 on <i>Blastomyces dermatitidis</i> yeasts. <i>Journal of Biological Chemistry</i> , 1995 , 270, 30725-32	5.4	48
81	Protective antifungal memory CD8(+) T cells are maintained in the absence of CD4(+) T cell help and cognate antigen in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 987-99	15.9	45
80	<i>Fonsecaea pedrosoi</i> -induced Th17-cell differentiation in mice is fostered by Dectin-2 and suppressed by Mincle recognition. <i>European Journal of Immunology</i> , 2015 , 45, 2542-52	6.1	42

79	Selective expression of the virulence factor BAD1 upon morphogenesis to the pathogenic yeast form of <i>Blastomyces dermatitidis</i> : evidence for transcriptional regulation by a conserved mechanism. <i>Molecular Microbiology</i> , 2001 , 39, 875-89	4.1	41
78	Calnexin induces expansion of antigen-specific CD4(+) T cells that confer immunity to fungal ascomycetes via conserved epitopes. <i>Cell Host and Microbe</i> , 2015 , 17, 452-65	23.4	40
77	A TCR transgenic mouse reactive with multiple systemic dimorphic fungi. <i>Journal of Immunology</i> , 2011 , 187, 1421-31	5.3	39
76	<i>Blastomyces dermatitidis</i> yeast cells inhibit nitric oxide production by alveolar macrophage inducible nitric oxide synthase. <i>Infection and Immunity</i> , 2011 , 79, 2385-95	3.7	39
75	Immunogenicity and protective efficacy of the WI-1 adhesin of <i>Blastomyces dermatitidis</i> . <i>Infection and Immunity</i> , 1998 , 66, 5443-9	3.7	37
74	CRISPR/Cas9-Mediated Gene Disruption Reveals the Importance of Zinc Metabolism for Fitness of the Dimorphic Fungal Pathogen <i>Blastomyces dermatitidis</i> . <i>MBio</i> , 2018 , 9,	7.8	36
73	Fungal Mimicry of a Mammalian Aminopeptidase Disables Innate Immunity and Promotes Pathogenicity. <i>Cell Host and Microbe</i> , 2016 , 19, 361-74	23.4	34
72	Vaccine immunity against fungal infections. <i>Current Opinion in Immunology</i> , 2014 , 28, 27-33	7.8	34
71	An unappreciated role for neutrophil-DC hybrids in immunity to invasive fungal infections. <i>PLoS Pathogens</i> , 2018 , 14, e1007073	7.6	34
70	Development of long-term specific cellular immunity after acute <i>Blastomyces dermatitidis</i> infection: assessments following a large point-source outbreak in Wisconsin. <i>Journal of Infectious Diseases</i> , 1990 , 161, 97-101	7	33
69	Lung Epithelial Cells Coordinate Innate Lymphocytes and Immunity against Pulmonary Fungal Infection. <i>Cell Host and Microbe</i> , 2018 , 23, 511-522.e5	23.4	32
68	The Interaction of with the C-Type Lectin Receptor Mincle Exerts a Significant Role in Host Defense against Infection. <i>Journal of Immunology</i> , 2017 , 198, 3515-3525	5.3	31
67	Identification of the mating-type (MAT) locus that controls sexual reproduction of <i>Blastomyces dermatitidis</i> . <i>Eukaryotic Cell</i> , 2013 , 12, 109-17		30
66	Insights into Fungal Morphogenesis and Immune Evasion: Fungal conidia, when situated in mammalian lungs, may switch from mold to pathogenic yeasts or spore-forming spherules. <i>Microbe Magazine</i> , 2008 , 3, 416-423		30
65	Uncertainty surrounding the mechanism and safety of the post-harvest fungicide fludioxonil. <i>Food and Chemical Toxicology</i> , 2019 , 123, 561-565	4.7	30
64	Interleukin-1 receptor but not Toll-like receptor 2 is essential for MyD88-dependent Th17 immunity to <i>Coccidioides</i> infection. <i>Infection and Immunity</i> , 2014 , 82, 2106-14	3.7	29
63	Lung epithelium: barrier immunity to inhaled fungi and driver of fungal-associated allergic asthma. <i>Current Opinion in Microbiology</i> , 2017 , 40, 8-13	7.9	28
62	The unappreciated intracellular lifestyle of <i>Blastomyces dermatitidis</i> . <i>Journal of Immunology</i> , 2015 , 194, 1796-805	5.3	28

61	Novel strategies to enhance vaccine immunity against coccidioidomycosis. <i>PLoS Pathogens</i> , 2013 , 9, e1003768	3.7	28
60	Identification and characterization of antifungal compounds using a <i>Saccharomyces cerevisiae</i> reporter bioassay. <i>PLoS ONE</i> , 2012 , 7, e36021	3.7	28
59	IL-12 is required for induction but not maintenance of protective, memory responses to <i>Blastomyces dermatitidis</i> : implications for vaccine development in immune-deficient hosts. <i>Journal of Immunology</i> , 2005 , 175, 5288-97	5.3	26
58	Intrinsic MyD88-Akt1-mTOR Signaling Coordinates Disparate Tc17 and Tc1 Responses during Vaccine Immunity against Fungal Pneumonia. <i>PLoS Pathogens</i> , 2015 , 11, e1005161	7.6	26
57	Virally-vectored vaccine candidates against white-nose syndrome induce anti-fungal immune response in little brown bats (<i>Myotis lucifugus</i>). <i>Scientific Reports</i> , 2019 , 9, 6788	4.9	22
56	Interleukin 1 enhances vaccine-induced antifungal T-helper 17 cells and resistance against <i>Blastomyces dermatitidis</i> infection. <i>Journal of Infectious Diseases</i> , 2013 , 208, 1175-82	7	22
55	Helper T-cell responses and pulmonary fungal infections. <i>Immunology</i> , 2018 , 155, 155-163	7.8	22
54	Structure and function of a fungal adhesin that binds heparin and mimics thrombospondin-1 by blocking T cell activation and effector function. <i>PLoS Pathogens</i> , 2013 , 9, e1003464	7.6	21
53	Infectious particle identity determines dissemination and disease outcome for the inhaled human fungal pathogen <i>Cryptococcus</i> . <i>PLoS Pathogens</i> , 2019 , 15, e1007777	7.6	20
52	Characterization of C-type lectins reveals an unexpectedly limited interaction between <i>Cryptococcus neoformans</i> spores and Dectin-1. <i>PLoS ONE</i> , 2017 , 12, e0173866	3.7	19
51	Fludioxonil Induces Drk1, a Fungal Group III Hybrid Histidine Kinase, To Dephosphorylate Its Downstream Target, Ypd1. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	19
50	Investigation of Genetic Susceptibility to Blastomycosis Reveals Interleukin-6 as a Potential Susceptibility Locus. <i>MBio</i> , 2019 , 10,	7.8	18
49	Club Cell TRPV4 Serves as a Damage Sensor Driving Lung Allergic Inflammation. <i>Cell Host and Microbe</i> , 2020 , 27, 614-628.e6	23.4	18
48	Phenylpyrrole fungicides act on triosephosphate isomerase to induce methylglyoxal stress and alter hybrid histidine kinase activity. <i>Scientific Reports</i> , 2019 , 9, 5047	4.9	17
47	Ligation of Dectin-2 with a novel microbial ligand promotes adjuvant activity for vaccination. <i>PLoS Pathogens</i> , 2017 , 13, e1006568	7.6	17
46	Dectin-2 Is a C-Type Lectin Receptor that Recognizes <i>Pneumocystis</i> and Participates in Innate Immune Responses. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 58, 232-240	5.7	17
45	The C-Type Lectin Receptor MCL Mediates Vaccine-Induced Immunity against Infection with <i>Blastomyces dermatitidis</i> . <i>Infection and Immunity</i> , 2015 , 84, 635-42	3.7	17
44	Antifungal Tc17 cells are durable and stable, persisting as long-lasting vaccine memory without plasticity towards IFN γ cells. <i>PLoS Pathogens</i> , 2017 , 13, e1006356	7.6	16

43	V beta1+ J beta1.1+/V alpha2+ J alpha49+ CD4+ T cells mediate resistance against infection with <i>Blastomyces dermatitidis</i> . <i>Infection and Immunity</i> , 2007 , 75, 193-200	3.7	16
42	Calcium binding by the essential virulence factor BAD-1 of <i>Blastomyces dermatitidis</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 42156-63	5.4	15
41	Human iNKT Cells Promote Protective Inflammation by Inducing Oscillating Purinergic Signaling in Monocyte-Derived DCs. <i>Cell Reports</i> , 2016 , 16, 3273-3285	10.6	15
40	Spleen Tyrosine Kinase Is a Critical Regulator of Neutrophil Responses to Species. <i>MBio</i> , 2020 , 11,	7.8	14
39	Transcription Factor KLF2 in Dendritic Cells Downregulates Th2 Programming via the HIF-1/Jagged2/Notch Axis. <i>MBio</i> , 2016 , 7,	7.8	13
38	Fungal glycan interactions with epithelial cells in allergic airway disease. <i>Current Opinion in Microbiology</i> , 2013 , 16, 404-8	7.9	12
37	Purification in quantity of the secreted form of WI-1: a major adhesin on <i>Blastomyces dermatitidis</i> yeasts. <i>Protein Expression and Purification</i> , 1997 , 11, 219-26	2	12
36	Sequence elements necessary for transcriptional activation of BAD1 in the yeast phase of <i>Blastomyces dermatitidis</i> . <i>Eukaryotic Cell</i> , 2004 , 3, 785-94		12
35	Advances in Understanding Human Genetic Variations That Influence Innate Immunity to Fungi. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 69	5.9	11
34	Through the Scope Darkly: The Gut Mycobiome Comes into Focus. <i>Cell Host and Microbe</i> , 2017 , 22, 728-729	9.4	11
33	Mannose Receptor Is Required for Optimal Induction of Vaccine-Induced T-Helper Type 17 Cells and Resistance to <i>Blastomyces dermatitidis</i> Infection. <i>Journal of Infectious Diseases</i> , 2016 , 213, 1762-6	7	10
32	Turning on virulence: Mechanisms that underpin the morphologic transition and pathogenicity of. <i>Virulence</i> , 2019 , 10, 801-809	4.7	10
31	CARD9-Associated Dectin-1 and Dectin-2 Are Required for Protective Immunity of a Multivalent Vaccine against Infection. <i>Journal of Immunology</i> , 2020 , 204, 3296-3306	5.3	9
30	The effect of canine macrophages on the adherence and growth of <i>Blastomyces dermatitidis</i> yeast: evidence of a soluble factor that enhances the growth of <i>B. dermatitidis</i> yeast. <i>Microbial Pathogenesis</i> , 1999 , 27, 395-405	3.8	8
29	<i>Blastomyces</i> Virulence Adhesin-1 Protein Binding to Glycosaminoglycans Is Enhanced by Protein Disulfide Isomerase. <i>MBio</i> , 2015 , 6, e01403-15	7.8	7
28	Isolation of <i>Blastomyces dermatitidis</i> yeast from lung tissue during murine infection for in vivo transcriptional profiling. <i>Fungal Genetics and Biology</i> , 2013 , 56, 1-8	3.9	7
27	Antigen discovery unveils resident memory and migratory cell roles in antifungal resistance. <i>Mucosal Immunology</i> , 2020 , 13, 518-529	9.2	7
26	LFA-1 Ligation by High-Density ICAM-1 Is Sufficient To Activate IFN- γ Release by Innate T Lymphocytes. <i>Journal of Immunology</i> , 2018 , 201, 2452-2461	5.3	7

25	O-Mannosylation of Proteins Enables Yeast Survival at Mammalian Body Temperatures. <i>MBio</i> , 2018 , 9,	7.8	6
24	Molecular genetic analysis of <i>Blastomyces dermatitidis</i> reveals new insights about pathogenic mechanisms. <i>International Journal of Medical Microbiology</i> , 2002 , 292, 363-71	3.7	6
23	<i>Blastomyces dermatitidis</i> serine protease dipeptidyl peptidase IVA (DppIVA) cleaves ELR CXC chemokines altering their effects on neutrophils. <i>Cellular Microbiology</i> , 2017 , 19, e12741	3.9	5
22	MyD88 Shapes Vaccine Immunity by Extrinsically Regulating Survival of CD4+ T Cells during the Contraction Phase. <i>PLoS Pathogens</i> , 2016 , 12, e1005787	7.6	5
21	Inhaled <i>Cryptococcus neoformans</i> elicits allergic airway inflammation independent of Nuclear Factor Kappa B signalling in lung epithelial cells. <i>Immunology</i> , 2018 , 153, 513-522	7.8	4
20	Early immune response against <i>Fonsecaea pedrosoi</i> requires Dectin-2-mediated Th17 activity, whereas Th1 response, aided by Treg cells, is crucial for fungal clearance in later stage of experimental chromoblastomycosis. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008386	4.8	3
19	CBLB Constrains Inactivated Vaccine-Induced CD8 T Cell Responses and Immunity against Lethal Fungal Pneumonia. <i>Journal of Immunology</i> , 2018 , 201, 1717-1726	5.3	3
18	The balance between immunity and inflammation. <i>Science</i> , 2017 , 357, 973-974	33.3	2
17	Club cell TRPV4 as a damage sensor driving lung allergic inflammation		1
16	The Known Unknowns of the Immune Response to. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021 , 7,	5.6	1
15	Characterization of antifungal C-type lectin receptor expression on murine epithelial and endothelial cells in mucosal tissues. <i>European Journal of Immunology</i> , 2021 , 51, 2341-2344	6.1	1
14	LYSMD3: A mammalian pattern recognition receptor for chitin. <i>Cell Reports</i> , 2021 , 36, 109392	10.6	1
13	Combination Adjuvants Enhance Recombinant Protein Vaccine Protection against Fungal Infection. <i>MBio</i> , 2021 , 12, e0201821	7.8	1
12	Gene Editing in Dimorphic Fungi Using CRISPR/Cas9. <i>Current Protocols in Microbiology</i> , 2020 , 59, e132	7.1	0
11	Structural basis of <i>Blastomyces</i> Endoglucanase-2 adjuvancy in anti-fungal and -viral immunity. <i>PLoS Pathogens</i> , 2021 , 17, e1009324	7.6	0
10	<i>Blastomyces dermatitidis</i> (Blastomycosis) 2018 , 1270-1275.e2		
9	Variation in Host Resistance to <i>Blastomyces dermatitidis</i> : Potential Use of Genetic Reference Panels and Advances in Immunophenotyping of Diverse Mouse Strains.. <i>MBio</i> , 2022 , e0340021	7.8	
8	<i>Blastomyces dermatitidis</i> Cell Surface Determinants and Their Application in Vaccine Development	393-406	

- 7 Fungal Bioreporters to Monitor Outcomes of Aspergillus: Host-Cell Interactions. *Methods in Molecular Biology*, **2021**, 2260, 121-132 1.4
- 6 Blastomyces and Blastomycosis **2021**, 638-653
- 5 Fungal Bioreporters to Monitor Outcomes of Blastomyces: Host-Cell Interactions. *Methods in Molecular Biology*, **2021**, 2260, 111-119 1.4
- 4 Early immune response against *Fonsecaea pedrosoi* requires Dectin-2-mediated Th17 activity, whereas Th1 response, aided by Treg cells, is crucial for fungal clearance in later stage of experimental chromoblastomycosis **2020**, 14, e0008386
- 3 Early immune response against *Fonsecaea pedrosoi* requires Dectin-2-mediated Th17 activity, whereas Th1 response, aided by Treg cells, is crucial for fungal clearance in later stage of experimental chromoblastomycosis **2020**, 14, e0008386
- 2 Early immune response against *Fonsecaea pedrosoi* requires Dectin-2-mediated Th17 activity, whereas Th1 response, aided by Treg cells, is crucial for fungal clearance in later stage of experimental chromoblastomycosis **2020**, 14, e0008386
- 1 Early immune response against *Fonsecaea pedrosoi* requires Dectin-2-mediated Th17 activity, whereas Th1 response, aided by Treg cells, is crucial for fungal clearance in later stage of experimental chromoblastomycosis **2020**, 14, e0008386