Rosemary J Boyton

List of Publications by Year
in descending order

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84 papers	5,327 citations	109321 35 h-index	106344 65 g-index
95 all docs	95 docs citations	95 times ranked	9105 citing authors

#	Article	IF	Citations
1	Antibody response to first BNT162b2 dose in previously SARS-CoV-2-infected individuals. Lancet, The, 2021, 397, 1057-1058.	13.7	360
2	Prior SARS-CoV-2 infection rescues B and T cell responses to variants after first vaccine dose. Science, 2021, 372, 1418-1423.	12.6	286
3	Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2. Nature, 2022, 601, 110-117.	27.8	280
4	Immune boosting by B.1.1.529 (Omicron) depends on previous SARS-CoV-2 exposure. Science, 2022, 377, .	12.6	241
5	SARS-CoV-2 T cell immunity: Specificity, function, durability, and role in protection. Science Immunology, 2020, 5, .	11.9	240
6	Dietary supplementation with inulin-propionate ester or inulin improves insulin sensitivity in adults with overweight and obesity with distinct effects on the gut microbiota, plasma metabolome and systemic inflammatory responses: a randomised cross-over trial. Gut, 2019, 68, 1430-1438.	12.1	235
7	Comparative systematic review and meta-analysis of reactogenicity, immunogenicity and efficacy of vaccines against SARS-CoV-2. Npj Vaccines, 2021, 6, 74.	6.0	198
8	Peptide immunotherapy in allergic asthma generates IL-10â€“dependent immunological tolerance associated with linked epitope suppression. Journal of Experimental Medicine, 2009, 206, 1535-1547.	8.5	192
9	What policy makers need to know about COVID-19 protective immunity. Lancet, The, 2020, 395, 1527-1529.	13.7	188
10	Discordant neutralizing antibody and T cell responses in asymptomatic and mild SARS-CoV-2 infection. Science Immunology, 2020, 5, .	11.9	172
11	Immunity to SARS-CoV-2 variants of concern. Science, 2021, 371, 1103-1104.	12.6	169
12	Innate Immunity in multiple sclerosis white matter lesions: expression of natural cytotoxicity triggering receptor 1 (NCR1). Journal of Neuroinflammation, 2012, 9, 1.	7.2	147
13	Natural killer cells, killer immunoglobulin-like receptors and human leucocyte antigen class I in disease. Clinical and Experimental Immunology, 2007, 149, 1-8.	2.6	142
14	COVID-19 vaccination: The road ahead. Science, 2022, 375, 1127-1132.	12.6	134
15	Recurrent COVID-19 including evidence of reinfection and enhanced severity in thirty Brazilian healthcare workers. Journal of Infection, 2021, 82, 399-406.	3.3	106
16	COVID-19 vaccine-induced antibody responses in immunosuppressed patients with inflammatory bowel disease (VIP): a multicentre, prospective, case-control study. The Lancet Gastroenterology and Hepatology, 2022, 7, 342-352.	8.1	100
17	Heterologous infection and vaccination shapes immunity against SARS-CoV-2 variants. Science, 2022, 375, 183-192.	12.6	91
18	Bronchiectasis: Current Concepts in Pathogenesis, Immunology, and Microbiology. Annual Review of Pathology: Mechanisms of Disease, 2016, 11, 523-554.	22.4	84

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19	Pulmonary defences to acute respiratory infection. British Medical Bulletin, 2002, 61, 1-12.	6.9	81
20	The immunology of asymptomatic SARS-CoV-2 infection: what are the key questions?. Nature Reviews Immunology, 2021, 21, 762-768.	22.7	80
21	Antibiotic therapy and outcome from immune-checkpoint inhibitors. , 2019, 7, 287.		77
22	High Incidence of Spontaneous Disease in an HLA-DR15 and TCR Transgenic Multiple Sclerosis Model. Journal of Immunology, 2005, 174, 1938-1946.	0.8	74
23	HLA-C and Killer Cell Immunoglobulin-like Receptor Genes in Idiopathic Bronchiectasis. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 327-333.	5.6	67
24	Trans-arterial chemoembolization as a loco-regional inducer of immunogenic cell death in hepatocellular carcinoma: implications for immunotherapy.. , 2021, 9, e003311.		66
25	Time series analysis and mechanistic modelling of heterogeneity and sero-reversion in antibody responses to mild SARSâ€‘CoV-2 infection. EBioMedicine, 2021, 65, 103259.	6.1	61
26	Human NK cell receptor KIR2DS4 detects a conserved bacterial epitope presented by HLA-C. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12964-12973.	7.1	59
27	Is selection for TCR affinity a factor in cytokine polarization?. Trends in Immunology, 2002, 23, 526-529.	6.8	58
28	Immune mechanisms and the impact of the disrupted lung microbiome in chronic bacterial lung infection and bronchiectasis. Clinical and Experimental Immunology, 2013, 171, 117-123.	2.6	53
29	Risk of SARS-CoV-2 reinfection after natural infection. Lancet, The, 2021, 397, 1161-1163.	13.7	53
30	Disease-related epitope spread in a humanized T cell receptor transgenic model of multiple sclerosis. European Journal of Immunology, 2004, 34, 1839-1848.	2.9	52
31	Blood transcriptional biomarkers of acute viral infection for detection of pre-symptomatic SARS-CoV-2 infection: a nested, case-control diagnostic accuracy study. Lancet Microbe, The, 2021, 2, e508-e517.	7.3	52
32	Effect of a 2-week interruption in methotrexate treatment versus continued treatment on COVID-19 booster vaccine immunity in adults with inflammatory conditions (VROOM study): a randomised, open label, superiority trial. Lancet Respiratory Medicine,the, 2022, 10, 840-850.	10.7	52
33	Lung Defense through IL-8 Carries a Cost of Chronic Lung Remodeling and Impaired Function. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 557-571.	2.9	48
34	Antibody decay, T cell immunity and breakthrough infections following two SARS-CoV-2 vaccine doses in inflammatory bowel disease patients treated with infliximab and vedolizumab. Nature Communications, 2022, 13, 1379.	12.8	48
35	T Cell Immunity to the Alkyl Hydroperoxide Reductase of Burkholderia pseudomallei: A Correlate of Disease Outcome in Acute Melioidosis. Journal of Immunology, 2015, 194, 4814-4824.	0.8	44
36	Decoding the unknowns in long covid. BMJ, The, 2021, 372, n132.	6.0	44

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37	Infection with Burkholderia pseudomallei â€“ immune correlates of survival in acute melioidosis. Scientific Reports, 2017, 7, 12143.	3.3	42
38	Canonical and Cross-reactive Binding of NK Cell Inhibitory Receptors to HLA-C Allotypes Is Dictated by Peptides Bound to HLA-C. Frontiers in Immunology, 2017, 8, 193.	4.8	40
39	ER-localized Hrd1 ubiquitinates and inactivates Usp15 to promote TLR4-induced inflammation during bacterial infection. Nature Microbiology, 2019, 4, 2331-2346.	13.3	39
40	Natural killer T cells in bronchial biopsies from human allergen challenge model of allergic asthma. Journal of Allergy and Clinical Immunology, 2009, 124, 860-862.	2.9	37
41	Rapid synchronous type 1 IFN and virus-specific TÂcell responses characterize first wave non-severe SARS-CoV-2 infections. Cell Reports Medicine, 2022, 3, 100557.	6.5	36
42	Human leucocyte antigen class II association in idiopathic bronchiectasis, a disease of chronic lung infection, implicates a role for adaptive immunity. Clinical and Experimental Immunology, 2008, 152, 95-101.	2.6	35
43	Waning immunity to SARS-CoV-2: implications for vaccine booster strategies. Lancet Respiratory Medicine,the, 2021, 9, 1356-1358.	10.7	35
44	Th1 not Th17 cells drive spontaneous MS-like disease despite a functional regulatory T cell response. Acta Neuropathologica, 2013, 126, 501-515.	7.7	32
45	The serodominant secreted effector protein of Salmonella, SseB, is a strong CD4 antigen containing an immunodominant epitope presented by diverse <scp>HLA</scp> class <scp>II</scp> alleles. Immunology, 2014, 143, 438-446.	4.4	32
46	CD4+ T Cell Epitopes of FliC Conserved between Strains of Burkholderia: Implications for Vaccines against Melioidosis and Cepacia Complex in Cystic Fibrosis. Journal of Immunology, 2014, 193, 6041-6049.	0.8	27
47	Chronic Infection by Mucoid Pseudomonas aeruginosa Associated with Dysregulation in T-Cell Immunity to Outer Membrane Porin F. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1250-1264.	5.6	27
48	Stat4-null non-obese diabetic mice: protection from diabetes and experimental allergic encephalomyelitis, but with concomitant epitope spread. International Immunology, 2005, 17, 1157-1165.	4.0	26
49	Post-acute COVID-19 associated with evidence of bystander T-cell activation and a recurring antibiotic-resistant bacterial pneumonia. ELife, 2020, 9, .	6.0	26
50	Increased <scp>HLA</scp>â€Ł expression in white matter lesions in multiple sclerosis. Immunology, 2012, 137, 317-325.	4.4	24
51	Infectious lung complications in patients with HIV/AIDS. Current Opinion in Internal Medicine, 2005, 4, 400-404.	1.5	23
52	KIR2DL3 and KIR2DL1 show similar impact on licensing of human NK cells. European Journal of Immunology, 2016, 46, 185-191.	2.9	23
53	A role of cellular prion protein in programming Tâ€cell cytokine responses in disease. FASEB Journal, 2009, 23, 1672-1684.	0.5	22
54	IFN? and CXCR-1 gene polymorphisms in idiopathic bronchiectasis. Tissue Antigens, 2006, 68, 325-330.	1.0	21

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55	Asthma: new developments in cytokine regulation. Clinical and Experimental Immunology, 2004, 136, 13-14.	2.6	19
56	Anthrax Lethal Factor as an Immune Target in Humans and Transgenic Mice and the Impact of HLA Polymorphism on CD4+ T Cell Immunity. PLoS Pathogens, 2014, 10, e1004085.	4.7	18
57	SARS-CoV-2 variants: Subversion of antibody response and predicted impact on TÂcell recognition. Cell Reports Medicine, 2021, 2, 100286.	6.5	18
58	HLAâ€ÐR polymorphism in SARSâ€CoVâ€2 infection and susceptibility to symptomatic COVIDâ€19. Immunology, 2022, 166, 68-77.	4.4	18
59	CD4 T Cells Selected by Antigen Under Th2 Polarizing Conditions Favor an Elongated TCRÎ± Chain Complementarity-Determining Region 3. Journal of Immunology, 2002, 168, 1018-1027.	0.8	17
60	Immune Control of Burkholderia pseudomalleiâ€“â€“Common, High-Frequency T-Cell Responses to a Broad Repertoire of Immunoprevalent Epitopes. Frontiers in Immunology, 2018, 9, 484.	4.8	15
61	Peptide-induced immune regulation by a promiscuous and immunodominant CD4T-cell epitope of Timothy grass pollen: a role of Cbl-b and Itch in regulation. Thorax, 2014, 69, 335-345.	5.6	13
62	Guillain-BarrÃ© syndrome and arboviral infection in Brazil. Lancet Infectious Diseases, The, 2017, 17, 693-694.	9.1	13
63	Pulmonary Infection with Cryptococcus neoformans in the Face of Underlying Sarcoidosis. Respiration, 2007, 74, 462-466.	2.6	12
64	Strong CD4 T Cell Responses to Zika Virus Antigens in a Cohort of Dengue Virus Immune Mothers of Congenital Zika Virus Syndrome Infants. Frontiers in Immunology, 2020, 11, 185.	4.8	12
65	CD4+ T Cells Targeting Dominant and Cryptic Epitopes from Bacillus anthracis Lethal Factor. Frontiers in Microbiology, 2016, 6, 1506.	3.5	11
66	Injectional anthrax infection due to heroin use induces strong immunological memory. Journal of Infection, 2014, 68, 200-203.	3.3	10
67	Heterologous infection and vaccination shapes immunity against SARS-CoV-2 variants. Science, 2021, , eabm0811.	12.6	10
68	MS in South Asians in England: early disease onset and novel pattern of myelin autoimmunity. BMC Neurology, 2015, 15, 72.	1.8	9
69	Immune regulation in idiopathic bronchiectasis. Annals of the New York Academy of Sciences, 2012, 1272, 68-72.	3.8	8
70	Bioluminescent Reporting of In Vivo IFN-Î³ Immune Responses during Infection and Autoimmunity. Journal of Immunology, 2019, 202, 2502-2510.	0.8	8
71	Proteome-Wide Zika Virus CD4 T Cell Epitope and HLA Restriction Determination. ImmunoHorizons, 2020, 4, 444-453.	1.8	8
72	Models of multiple sclerosis. Drug Discovery Today: Disease Models, 2004, 1, 405-410.	1.2	7

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73	Models of sarcoidosis. Drug Discovery Today: Disease Models, 2006, 3, 21-25.	1.2	7
74	Natural cutaneous anthrax infection, but not vaccination, induces a CD4+ T cell response involving diverse cytokines. Cell and Bioscience, 2015, 5, 20.	4.8	7
75	BpOmpW Antigen Stimulates the Necessary Protective T-Cell Responses Against Melioidosis. Frontiers in Immunology, 2021, 12, 767359.	4.8	6
76	Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. BMC Biology, 2014, 12, 32.	3.8	4
77	Replace 'pathogens' with 'perceptogens'. Nature, 2015, 518, 35-35.	27.8	4
78	BIITE: A Tool to Determine HLA Class II Epitopes from T Cell ELISpot Data. PLoS Computational Biology, 2016, 12, e1004796.	3.2	4
79	Multiplexed gene expression analysis of HLA class II-associated podoconiosis implicates chronic immune activation in its pathogenesis. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2020, 114, 926-936.	1.8	4
80	Autoantigen cross-reactive environmental antigen can trigger multiple sclerosis-like disease. Journal of Neuroinflammation, 2015, 12, 91.	7.2	3
81	Covid-19 caseload in the UKâ€"assessments and mitigations. BMJ, The, 2021, 375, n2843.	6.0	2
82	Vaccine efficacy and immune interference: co-administering COVID-19 and influenza vaccines. Lancet Respiratory Medicine,the, 2022, 10, 125-126.	10.7	2
83	Reciprocal conditioning: T cells as regulators of dendritic cell function. Immunology, 2003, 109, 473-475.	4.4	1
84	SARS-Cov-2 immune waning and reinfection in care-home settings. The Lancet Healthy Longevity, 2021, 2, e776-e777.	4.6	0