

Daniel M Altmann

List of Publications by Citations

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116
papers

3,280
citations

30
h-index

53
g-index

139
ext. papers

4,961
ext. citations

11.5
avg, IF

6.49
L-index

#	Paper	IF	Citations
116	Antibody response to first BNT162b2 dose in previously SARS-CoV-2-infected individuals. <i>Lancet, The</i> , 2021 , 397, 1057-1058	40	214
115	Peptide immunotherapy in allergic asthma generates IL-10-dependent immunological tolerance associated with linked epitope suppression. <i>Journal of Experimental Medicine</i> , 2009 , 206, 1535-47	16.6	175
114	SARS-CoV-2 T cell immunity: Specificity, function, durability, and role in protection. <i>Science Immunology</i> , 2020 , 5,	28	161
113	What policy makers need to know about COVID-19 protective immunity. <i>Lancet, The</i> , 2020 , 395, 1527-1529	40	141
112	Prior SARS-CoV-2 infection rescues B and T cell responses to variants after first vaccine dose. <i>Science</i> , 2021 , 372,	33.3	136
111	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. <i>Gut</i> , 2019 , 68, 1430-1438	19.2	134
110	Immunity to SARS-CoV-2 variants of concern. <i>Science</i> , 2021 , 371, 1103-1104	33.3	106
109	Discordant neutralizing antibody and T cell responses in asymptomatic and mild SARS-CoV-2 infection. <i>Science Immunology</i> , 2020 , 5,	28	98
108	The mechanism of superantigen-mediated toxic shock: not a simple Th1 cytokine storm. <i>Journal of Immunology</i> , 2005 , 175, 6870-7	5.3	87
107	Comparative systematic review and meta-analysis of reactogenicity, immunogenicity and efficacy of vaccines against SARS-CoV-2. <i>Npj Vaccines</i> , 2021 , 6, 74	9.5	87
106	Design, recruitment, and microbiological considerations in human challenge studies. <i>Lancet Infectious Diseases, The</i> , 2015 , 15, 840-51	25.5	78
105	High incidence of spontaneous disease in an HLA-DR15 and TCR transgenic multiple sclerosis model. <i>Journal of Immunology</i> , 2005 , 174, 1938-46	5.3	63
104	Progressive neurodegeneration following spinal cord injury: Implications for clinical trials. <i>Neurology</i> , 2018 , 90, e1257-e1266	6.5	61
103	Innate immunity in multiple sclerosis white matter lesions: expression of natural cytotoxicity triggering receptor 1 (NCR1). <i>Journal of Neuroinflammation</i> , 2012 , 9, 1	10.1	60
102	HLA-C and killer cell immunoglobulin-like receptor genes in idiopathic bronchiectasis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 173, 327-33	10.2	56
101	Recurrent COVID-19 including evidence of reinfection and enhanced severity in thirty Brazilian healthcare workers. <i>Journal of Infection</i> , 2021 , 82, 399-406	18.9	54
100	Immune responses and tolerance to the RhD blood group protein in HLA-transgenic mice. <i>Blood</i> , 2005 , 105, 2175-9	2.2	49

99	Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2. <i>Nature</i> , 2021 ,	50.4	49
98	Antibiotic therapy and outcome from immune-checkpoint inhibitors 2019 , 7, 287		48
97	Bronchiectasis: Current Concepts in Pathogenesis, Immunology, and Microbiology. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2016 , 11, 523-54	34	47
96	Disease-related epitope spread in a humanized T cell receptor transgenic model of multiple sclerosis. <i>European Journal of Immunology</i> , 2004 , 34, 1839-48	6.1	46
95	Is selection for TCR affinity a factor in cytokine polarization?. <i>Trends in Immunology</i> , 2002 , 23, 526-9	14.4	46
94	Modified amino acid copolymers suppress myelin basic protein 85-99-induced encephalomyelitis in humanized mice through different effects on T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 11749-54	11.5	38
93	Natural exposure to cutaneous anthrax gives long-lasting T cell immunity encompassing infection-specific epitopes. <i>Journal of Immunology</i> , 2010 , 184, 3814-21	5.3	37
92	HLA-DR alleles in amyloid beta-peptide autoimmunity: a highly immunogenic role for the DRB1*1501 allele. <i>Journal of Immunology</i> , 2009 , 183, 3522-30	5.3	37
91	Time series analysis and mechanistic modelling of heterogeneity and sero-reversion in antibody responses to mild SARS-CoV-2 infection. <i>EBioMedicine</i> , 2021 , 65, 103259	8.8	36
90	Natural killer T cells in bronchial biopsies from human allergen challenge model of allergic asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2009 , 124, 860-2; author reply 862	11.5	34
89	In vivo enhancement of peptide display by MHC class II molecules with small molecule catalysts of peptide exchange. <i>Journal of Immunology</i> , 2009 , 182, 6342-52	5.3	30
88	Human NK cell receptor KIR2DS4 detects a conserved bacterial epitope presented by HLA-C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12964-12973	11.5	29
87	T Cell Immunity to the Alkyl Hydroperoxide Reductase of <i>Burkholderia pseudomallei</i> : A Correlate of Disease Outcome in Acute Melioidosis. <i>Journal of Immunology</i> , 2015 , 194, 4814-24	5.3	28
86	Biochemical characterization of the human diabetes-associated HLA-DQ8 allelic product: similarity to the major histocompatibility complex class II I-A(g)7 protein of non-obese diabetic mice. <i>European Journal of Immunology</i> , 1997 , 27, 2478-83	6.1	28
85	Relapsing and remitting experimental allergic encephalomyelitis: a focused response to the encephalitogenic peptide rather than epitope spread. <i>European Journal of Immunology</i> , 1997 , 27, 2927-34	6.1	28
84	Lung Defense through IL-8 Carries a Cost of Chronic Lung Remodeling and Impaired Function. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 59, 557-571	5.7	27
83	Th1 not Th17 cells drive spontaneous MS-like disease despite a functional regulatory T cell response. <i>Acta Neuropathologica</i> , 2013 , 126, 501-15	14.3	27
82	Non-obese diabetic mice hemizygous at the T cell receptor alpha locus are susceptible to diabetes and sialitis. <i>European Journal of Immunology</i> , 1996 , 26, 953-6	6.1	27

81	Canonical and Cross-reactive Binding of NK Cell Inhibitory Receptors to HLA-C Allotypes Is Dictated by Peptides Bound to HLA-C. <i>Frontiers in Immunology</i> , 2017 , 8, 193	8.4	26
80	Risk of SARS-CoV-2 reinfection after natural infection. <i>Lancet, The</i> , 2021 , 397, 1161-1163	4.0	26
79	Infection with <i>Burkholderia pseudomallei</i> - immune correlates of survival in acute melioidosis. <i>Scientific Reports</i> , 2017 , 7, 12143	4.9	24
78	Chronic Infection by Mucoid <i>Pseudomonas aeruginosa</i> Associated with Dysregulation in T-Cell Immunity to Outer Membrane Porin F. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 191, 1250-64	10.2	23
77	HLA-DQB1*0602 determines disease susceptibility in a new "humanized" multiple sclerosis model in HLA-DR15 (DRB1*1501;DQB1*0602) transgenic mice. <i>Journal of Immunology</i> , 2009 , 183, 3531-41	5.3	22
76	Stat4-null non-obese diabetic mice: protection from diabetes and experimental allergic encephalomyelitis, but with concomitant epitope spread. <i>International Immunology</i> , 2005 , 17, 1157-65	4.9	22
75	CD4+ T cell epitopes of FltC conserved between strains of <i>Burkholderia</i> : implications for vaccines against melioidosis and cepacia complex in cystic fibrosis. <i>Journal of Immunology</i> , 2014 , 193, 6041-9	5.3	20
74	A role of cellular prion protein in programming T-cell cytokine responses in disease. <i>FASEB Journal</i> , 2009 , 23, 1672-84	0.9	19
73	Immune boosting by B.1.1.529 (Omicron) depends on previous SARS-CoV-2 exposure. <i>Science</i> ,	33.3	19
72	Voxel-based cervical spinal cord mapping of diffusion abnormalities in MS-related myelitis. <i>Neurology</i> , 2014 , 83, 1321-5	6.5	18
71	The serodominant secreted effector protein of <i>Salmonella</i> , SseB, is a strong CD4 antigen containing an immunodominant epitope presented by diverse HLA class II alleles. <i>Immunology</i> , 2014 , 143, 438-46	7.8	18
70	Spread of T lymphocyte immune responses to myelin epitopes with duration of multiple sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2005 , 64, 371-7	3.1	18
69	Exacerbated autoimmunity associated with a T helper-1 cytokine profile shift in H-2E-transgenic mice. <i>European Journal of Immunology</i> , 1995 , 25, 3134-41	6.1	18
68	Decoding the unknowns in long covid. <i>BMJ, The</i> , 2021 , 372, n132	5.9	18
67	CD4 T cells selected by antigen under Th2 polarizing conditions favor an elongated TCR alpha chain complementarity-determining region 3. <i>Journal of Immunology</i> , 2002 , 168, 1018-27	5.3	17
66	KIR2DL3 and KIR2DL1 show similar impact on licensing of human NK cells. <i>European Journal of Immunology</i> , 2016 , 46, 185-91	6.1	17
65	Enhanced axonal response of mitochondria to demyelination offers neuroprotection: implications for multiple sclerosis. <i>Acta Neuropathologica</i> , 2020 , 140, 143-167	14.3	15
64	Increased HLA-E expression in white matter lesions in multiple sclerosis. <i>Immunology</i> , 2012 , 137, 317-25	7.8	15

63	Repertoire of HLA-DR1-restricted CD4 T-cell responses to capsular Caf1 antigen of <i>Yersinia pestis</i> in human leukocyte antigen transgenic mice. <i>Infection and Immunity</i> , 2010 , 78, 4356-62	3.7	15
62	The cellular prion protein is preferentially expressed by CD4+ CD25+ Foxp3+ regulatory T cells. <i>Immunology</i> , 2008 , 125, 313-9	7.8	15
61	The immunology of asymptomatic SARS-CoV-2 infection: what are the key questions?. <i>Nature Reviews Immunology</i> , 2021 , 21, 762-768	36.5	15
60	The case against epitope spread in experimental allergic encephalomyelitis. <i>Immunological Reviews</i> , 1998 , 164, 101-10	11.3	14
59	Post-acute COVID-19 associated with evidence of bystander T-cell activation and a recurring antibiotic-resistant bacterial pneumonia. <i>ELife</i> , 2020 , 9,	8.9	14
58	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. <i>Thorax</i> , 2014 , 69, 335-45	7.3	13
57	Anthrax lethal factor as an immune target in humans and transgenic mice and the impact of HLA polymorphism on CD4+ T cell immunity. <i>PLoS Pathogens</i> , 2014 , 10, e1004085	7.6	13
56	Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2 infection		13
55	COVID-19 vaccination: The road ahead.. <i>Science</i> , 2022 , 375, 1127-1132	33.3	13
54	Pulmonary infection with <i>Cryptococcus neoformans</i> in the face of underlying sarcoidosis. <i>Respiration</i> , 2007 , 74, 462-6	3.7	11
53	HLA-DQ associations with autoimmune disease. <i>Autoimmunity</i> , 1992 , 14, 79-83	3	11
52	Guillain-Barré syndrome and arboviral infection in Brazil. <i>Lancet Infectious Diseases</i> , 2017 , 17, 693-694	5.5	10
51	An epitope of <i>Bacillus anthracis</i> protective antigen that is cryptic in rabbits may be immunodominant in humans. <i>Infection and Immunity</i> , 2010 , 78, 2353; author reply 2353-4	3.7	10
50	COVID-19 vaccine-induced antibody responses in immunosuppressed patients with inflammatory bowel disease (VIP): a multicentre, prospective, case-control study.. <i>The Lancet Gastroenterology and Hepatology</i> , 2022 ,	18.8	10
49	Whole genome protein microarrays for serum profiling of immunodominant antigens of <i>Bacillus anthracis</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 747	5.7	9
48	Review series on helminths, immune modulation and the hygiene hypothesis: nematode coevolution with adaptive immunity, regulatory networks and the growth of inflammatory diseases. <i>Immunology</i> , 2009 , 126, 1-2	7.8	9
47	Mouse mammary tumor virus-mediated T-cell receptor negative selection in HLA-DRA transgenic mice. <i>Human Immunology</i> , 1993 , 37, 149-56	2.3	9
46	Blood transcriptional biomarkers of acute viral infection for detection of pre-symptomatic SARS-CoV-2 infection: a nested, case-control diagnostic accuracy study. <i>Lancet Microbe</i> , 2021 , 2, e508-e517	22.2	9

45	Immune Control of --Common, High-Frequency T-Cell Responses to a Broad Repertoire of Immunoprevalent Epitopes. <i>Frontiers in Immunology</i> , 2018 , 9, 484	8.4	8
44	Host immunity to Bacillus anthracis lethal factor and other immunogens: implications for vaccine design. <i>Expert Review of Vaccines</i> , 2015 , 14, 429-34	5.2	8
43	Heterologous infection and vaccination shapes immunity against SARS-CoV-2 variants. <i>Science</i> , 2022 , 375, 183-192	33.3	8
42	CD4+ T Cells Targeting Dominant and Cryptic Epitopes from Bacillus anthracis Lethal Factor. <i>Frontiers in Microbiology</i> , 2015 , 6, 1506	5.7	8
41	Injectional anthrax infection due to heroin use induces strong immunological memory. <i>Journal of Infection</i> , 2014 , 68, 200-3	18.9	7
40	Charcot-Marie-Tooth disease associated with recurrent optic neuritis. <i>Journal of Clinical Neuroscience</i> , 2011 , 18, 1422-3	2.2	7
39	Anthrax lethal toxin and the induction of CD4 T cell immunity. <i>Toxins</i> , 2012 , 4, 878-99	4.9	7
38	Global surveillance, research, and collaboration needed to improve understanding and management of long COVID. <i>Lancet, The</i> , 2021 , 398, 2057-2059	4.0	7
37	Role of a Novel Human Leukocyte Antigen-DQA1*01:02;DRB1*15:01 Mixed Isotype Heterodimer in the Pathogenesis of "Humanized" Multiple Sclerosis-like Disease. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15260-78	5.4	6
36	Strong CD4 T Cell Responses to Zika Virus Antigens in a Cohort of Dengue Virus Immune Mothers of Congenital Zika Virus Syndrome Infants. <i>Frontiers in Immunology</i> , 2020 , 11, 185	8.4	6
35	CD4+ T-cell immunity to the Burkholderia pseudomallei ABC transporter LolC in melioidosis. <i>European Journal of Immunology</i> , 2011 , 41, 107-15	6.1	6
34	Waning immunity to SARS-CoV-2: implications for vaccine booster strategies. <i>Lancet Respiratory Medicine, the</i> , 2021 , 9, 1356-1358	35.1	6
33	Trans-arterial chemoembolization as a loco-regional inducer of immunogenic cell death in hepatocellular carcinoma: implications for immunotherapy 2021 , 9,		6
32	Adaptive immunity to SARS-CoV-2. <i>Oxford Open Immunology</i> , 2020 , 1, iqaa003	4.8	5
31	Immune regulation in idiopathic bronchiectasis. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1272, 68-72	6.5	5
30	Natural cutaneous anthrax infection, but not vaccination, induces a CD4(+) T cell response involving diverse cytokines. <i>Cell and Bioscience</i> , 2015 , 5, 20	9.8	4
29	The human prion protein residue 129 polymorphism lies within a cluster of epitopes for T cell recognition. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006 , 65, 1059-68	3.1	4
28	Children and the return to school: how much should we worry about covid-19 and long covid?. <i>BMJ, The</i> , 2021 , 372, n701	5.9	4

27	BIITE: A Tool to Determine HLA Class II Epitopes from T Cell ELISpot Data. <i>PLoS Computational Biology</i> , 2016 , 12, e1004796	5	4
26	Bioluminescent Reporting of In Vivo IFN- γ Immune Responses during Infection and Autoimmunity. <i>Journal of Immunology</i> , 2019 , 202, 2502-2510	5.3	4
25	Blood transcriptional biomarkers of acute viral infection for detection of pre-symptomatic SARS-CoV-2 infection		4
24	Heterologous infection and vaccination shapes immunity against SARS-CoV-2 variants. <i>Science</i> , 2021 , eabm0811	33.3	4
23	HLA-DR polymorphism in SARS-CoV-2 infection and susceptibility to symptomatic COVID-19.. <i>Immunology</i> , 2022 ,	7.8	4
22	Elongated TCR alpha chain CDR3 favors an altered CD4 cytokine profile. <i>BMC Biology</i> , 2014 , 12, 32	7.3	3
21	MS in South Asians in England: early disease onset and novel pattern of myelin autoimmunity. <i>BMC Neurology</i> , 2015 , 15, 72	3.1	3
20	Models of multiple sclerosis. <i>Drug Discovery Today: Disease Models</i> , 2004 , 1, 405-410	1.3	3
19	Covid-19 vaccine-induced antibodies are attenuated and decay rapidly in infliximab treated patients		3
18	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.. <i>Nature Communications</i> , 2022 , 13, 1379	17.4	3
17	Autoantigen cross-reactive environmental antigen can trigger multiple sclerosis-like disease. <i>Journal of Neuroinflammation</i> , 2015 , 12, 91	10.1	2
16	Developing vaccines to counter bioterrorist threats. <i>Expert Review of Vaccines</i> , 2005 , 4, 275-9	5.2	2
15	Covid-19 caseload in the UK-assessments and mitigations. <i>BMJ, The</i> , 2021 , 375, n2843	5.9	2
14	Multiplexed gene expression analysis of HLA class II-associated podoconiosis implicates chronic immune activation in its pathogenesis. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2020 , 114, 926-936	2	2
13	Comment on "Frequency of epitope-specific naive CD4+ T cells correlates with immunodominance in the human memory repertoire". <i>Journal of Immunology</i> , 2012 , 188, 5205-6; author reply 5206	5.3	1
12	Regulation, FoxP3, Suppression and Immunity. <i>Immunology</i> , 2008 , 123, 1-2	7.8	1
11	Antibody decay, T cell immunity and breakthrough infections following two SARS-CoV-2 vaccine doses in infliximab- and vedolizumab-treated patients		1
10	Narrating the natural history of live infection by SARS CoV-2 VOC in animal models. <i>EBioMedicine</i> , 2021 , 74, 103704	8.8	1

9	Phenotypical characterization of regulatory T cells in acute Zika infection. <i>Cytokine</i> , 2021 , 146, 155651	4	1
8	Rapid synchronous type 1 IFN and virus-specific T cell responses characterize first wave non-severe SARS-CoV-2 infections.. <i>Cell Reports Medicine</i> , 2022 , 3, 100557	18	1
7	Meningeal lymphatic vessels mediate neurotropic viral drainage from the central nervous system.. <i>Nature Neuroscience</i> , 2022 , 25, 577-587	25.5	1
6	Reciprocal conditioning: T cells as regulators of dendritic cell function. <i>Immunology</i> , 2003 , 109, 473-5	7.8	0
5	Antagonist peptide for the treatment of bacterial superantigen toxic shock in a clinical or biowarfare setting. <i>Expert Opinion on Therapeutic Patents</i> , 2005 , 15, 741-743	6.8	0
4	BpOmpW Antigen Stimulates the Necessary Protective T-Cell Responses Against Melioidosis.. <i>Frontiers in Immunology</i> , 2021 , 12, 767359	8.4	0
3	Regulatory T Cells in acute and chronic human Chikungunya infection.. <i>Microbes and Infection</i> , 2021 , 104927	9.5	0
2	Effects of temporarily suspending low-dose methotrexate treatment for 2 weeks after SARS-CoV-2 vaccine booster on vaccine response in immunosuppressed adults with inflammatory conditions: protocol for a multicentre randomised controlled trial and nested mechanistic substudy (Vaccine Response On/Off Methotrexate (VROOM) study).. <i>BMJ Open</i> , 2022 , 12, e062599	3	0
1	SARS-Cov-2 immune waning and reinfection in care-home settings. <i>The Lancet Healthy Longevity</i> , 2021 , 2, e776-e777	9.5	