Cecilia Lindestam Arlehamn

List of Publications by Year
in descending order

97 papers	7,208 citations	101543 36 h-index	69250 77 g-index
121 all docs	121 docs citations	121 times ranked	11312 citing authors

#	Article	IF	Citations
1	Identifying specificity groups in the T cell receptor repertoire. Nature, 2017, 547, 94-98.	27.8	825
2	Human Circulating PD-1+CXCR3â^'CXCR5+ Memory Tfh Cells Are Highly Functional and Correlate with Broadly Neutralizing HIV Antibody Responses. Immunity, 2013, 39, 758-769.	14.3	790
3	T cells from patients with Parkinsonâ€™s disease recognize Î±-synuclein peptides. Nature, 2017, 546, 656-661.	27.8	618
4	Impairment of immunity to Candida and Mycobacterium in humans with bi-allelic RORC mutations. Science, 2015, 349, 606-613.	12.6	366
5	Memory T Cells in Latent Mycobacterium tuberculosis Infection Are Directed against Three Antigenic Islands and Largely Contained in a CXCR3+CCR6+ Th1 Subset. PLoS Pathogens, 2013, 9, e1003130.	4.7	258
6	Î±-Synuclein-specific T cell reactivity is associated with preclinical and early Parkinsonâ€™s disease. Nature Communications, 2020, 11, 1875.	12.8	239
7	A Cytokine-Independent Approach To Identify Antigen-Specific Human Germinal Center T Follicular Helper Cells and Rare Antigen-Specific CD4+ T Cells in Blood. Journal of Immunology, 2016, 197, 983-993.	0.8	215
8	Development and validation of a broad scheme for prediction of HLA class II restricted T cell epitopes. Journal of Immunological Methods, 2015, 422, 28-34.	1.4	171
9	Antigen Availability Shapes T Cell Differentiation and Function during Tuberculosis. Cell Host and Microbe, 2017, 21, 695-706.e5.	11.0	164
10	Human IFN-Î³ immunity to mycobacteria is governed by both IL-12 and IL-23. Science Immunology, 2018, 3, .	11.9	152
11	A Quantitative Analysis of Complexity of Human Pathogen-Specific CD4 T Cell Responses in Healthy M. tuberculosis Infected South Africans. PLoS Pathogens, 2016, 12, e1005760.	4.7	128
12	Autoimmunity in Parkinson's Disease: The Role of Î±-Synuclein-Specific T Cells. Frontiers in Immunology, 2019, 10, 303.	4.8	120
13	The SysteMHC Atlas project. Nucleic Acids Research, 2018, 46, D1237-D1247.	14.5	119
14	Relationship of SARS-CoV-2â€“specific CD4 response to COVID-19 severity and impact of HIV-1 and tuberculosis coinfection. Journal of Clinical Investigation, 2021, 131, .	8.2	113
15	An open-source computational and data resource to analyze digital maps of immunopeptidomes. ELife, 2015, 4, .	6.0	107
16	Disruption of an antimycobacterial circuit between dendritic and helper T cells in human SPPL2a deficiency. Nature Immunology, 2018, 19, 973-985.	14.5	96
17	Dissecting Mechanisms of Immunodominance to the Common Tuberculosis Antigens ESAT-6, CFP10, Rv2031c (hspX), Rv2654c (TB7.7), and Rv1038c (EsxJ). Journal of Immunology, 2012, 188, 5020-5031.	0.8	95
18	Transcriptional Profile of Tuberculosis Antigenâ€“Specific T Cells Reveals Novel Multifunctional Features. Journal of Immunology, 2014, 193, 2931-2940.	0.8	91

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19	Automatic Generation of Validated Specific Epitope Sets. Journal of Immunology Research, 2015, 2015, 1-11.	2.2	90
20	Recurrent group A Streptococcus tonsillitis is an immunosusceptibility disease involving antibody deficiency and aberrant T _{FH} cells. Science Translational Medicine, 2019, 11, .	12.4	90
21	Previously undescribed grass pollen antigens are the major inducers of T helper 2 cytokine-producing T cells in allergic individuals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3459-3464.	7.1	88
22	The Role of Potassium in Inflammasome Activation by Bacteria. Journal of Biological Chemistry, 2010, 285, 10508-10518.	3.4	87
23	Th1 versus Th2 T cell polarization by whole-cell and acellular childhood pertussis vaccines persists upon re-immunization in adolescence and adulthood. Cellular Immunology, 2016, 304-305, 35-43.	3.0	83
24	A strategy to determine HLA class II restriction broadly covering the DR, DP, and DQ allelic variants most commonly expressed in the general population. Immunogenetics, 2013, 65, 357-370.	2.4	77
25	Can we predict tuberculosis cure? What tools are available?. European Respiratory Journal, 2018, 52, 1801089.	6.7	73
26	PD-1 blockade exacerbates Mycobacterium tuberculosis infection in rhesus macaques. Science Immunology, 2021, 6, .	11.9	70
27	Immunological consequences of intragenus conservation ofMycobacterium tuberculosisT-cell epitopes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E147-55.	7.1	69
28	An Integrated Workflow To Assess Technical and Biological Variability of Cell Population Frequencies in Human Peripheral Blood by Flow Cytometry. Journal of Immunology, 2017, 198, 1748-1758.	0.8	69
29	Circulating T cell-monocyte complexes are markers of immune perturbations. ELife, 2019, 8, .	6.0	67
30	Antigens for CD4 and CD8 T Cells in Tuberculosis. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a018465-a018465.	6.2	64
31	Definition of Human Epitopes Recognized in Tetanus Toxoid and Development of an Assay Strategy to Detect Ex Vivo Tetanus CD4+ T Cell Responses. PLoS ONE, 2017, 12, e0169086.	2.5	60
32	Pseudomonas aeruginosa pilin activates the inflammasome. Cellular Microbiology, 2011, 13, 388-401.	2.1	55
33	Multimodally profiling memory T cells from a tuberculosis cohort identifies cell state associations with demographics, environment and disease. Nature Immunology, 2021, 22, 781-793.	14.5	52
34	A Population Response Analysis Approach To Assign Class II HLA-Epitope Restrictions. Journal of Immunology, 2015, 194, 6164-6176.	0.8	51
35	Tissue-resident-like CD4+ T cells secreting IL-17 control Mycobacterium tuberculosis in the human lung. Journal of Clinical Investigation, 2021, 131, .	8.2	51
36	Host resistance to pulmonary Mycobacterium tuberculosis infection requires CD153 expression. Nature Microbiology, 2018, 3, 1198-1205.	13.3	48

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37	Lack of evidence for BCG vaccine protection from severe COVID-19. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25203-25204.	7.1	46
38	Safety and immunogenicity of the adjunct therapeutic vaccine ID93â€ˆ+â€ˆGLA-SE in adults who have completed treatment for tuberculosis: a randomised, double-blind, placebo-controlled, phase 2a trial. Lancet Respiratory Medicine,the, 2021, 9, 373-386.	10.7	46
39	Transcriptomic Analysis of CD4+ T Cells Reveals Novel Immune Signatures of Latent Tuberculosis. Journal of Immunology, 2018, 200, 3283-3290.	0.8	43
40	A Review on T Cell Epitopes Identified Using Prediction and Cell-Mediated Immune Models for Mycobacterium tuberculosis and Bordetella pertussis. Frontiers in Immunology, 2018, 9, 2778.	4.8	41
41	Limited recognition of Mycobacterium tuberculosis-infected macrophages by polyclonal CD4 and CD8 T cells from the lungs of infected mice. Mucosal Immunology, 2020, 13, 140-148.	6.0	40
42	The TB-specific CD4+ T cell immune repertoire in both cynomolgus and rhesus macaques largely overlap with humans. Tuberculosis, 2015, 95, 722-735.	1.9	39
43	Differential Recognition ofMycobacterium tuberculosisâ€“Specific Epitopes as a Function of Tuberculosis Disease History. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 772-781.	5.6	39
44	Roles for the adaptive immune system in Parkinsonâ€™s and Alzheimerâ€™s diseases. Current Opinion in Immunology, 2019, 59, 115-120.	5.5	38
45	Disease extent and antiâ€tubercular treatment response correlates with Mycobacterium tuberculosisâ€specific CD4 Tâ€cell phenotype regardless of HIVâ€1 status. Clinical and Translational Immunology, 2020, 9, e1176.	3.8	37
46	Widespread Tau-Specific CD4 T Cell Reactivity in the General Population. Journal of Immunology, 2019, 203, 84-92.	0.8	36
47	A side-by-side comparison of T cell reactivity to fifty-nine Mycobacterium tuberculosis antigens in diverse populations from five continents. Tuberculosis, 2015, 95, 713-721.	1.9	35
48	Classical CD4 T cells as the cornerstone of antimycobacterial immunity. Immunological Reviews, 2021, 301, 10-29.	6.0	35
49	A Mycobacterium tuberculosis-specific subunit vaccine that provides synergistic immunity upon co-administration with Bacillus Calmette-GuÃ©rin. Nature Communications, 2021, 12, 6658.	12.8	35
50	Limited Pulmonary Mucosal-Associated Invariant T Cell Accumulation and Activation during Mycobacterium tuberculosis Infection in Rhesus Macaques. Infection and Immunity, 2018, 86, .	2.2	34
51	Mycobacterium tuberculosis-specific CD4 T cells expressing CD153 inversely associate with bacterial load and disease severity in human tuberculosis. Mucosal Immunology, 2021, 14, 491-499.	6.0	33
52	HLA-DR Marks Recently Divided Antigen-Specific Effector CD4 T Cells in Active Tuberculosis Patients. Journal of Immunology, 2021, 207, 523-533.	0.8	33
53	Microbiota epitope similarity either dampens or enhances the immunogenicity of disease-associated antigenic epitopes. PLoS ONE, 2018, 13, e0196551.	2.5	31
54	Host Transcriptomics as a Tool to Identify Diagnostic and Mechanistic Immune Signatures of Tuberculosis. Frontiers in Immunology, 2019, 10, 221.	4.8	31

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55	Virus-specific T cells for adenovirus infection after stem cell transplantation are highly effective and class II HLA restricted. Blood Advances, 2021, 5, 3309-3321.	5.2	26
56	The TCR repertoire of Î±-synuclein-specific T cells in Parkinsonâ€™s disease is surprisingly diverse. Scientific Reports, 2021, 11, 302.	3.3	26
57	Anti-HIV potency of T-cell responses elicited by dendritic cell therapeutic vaccination. PLoS Pathogens, 2019, 15, e1008011.	4.7	25
58	The Challenge of Distinguishing Cellâ€“Cell Complexes from Singlet Cells in Nonâ€Imaging Flow Cytometry and Singleâ€Cell Sorting. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1127-1135.	1.5	25
59	Inflammation in Experimental Models of Î±<scp>â€Synucleinopathies</scp>. Movement Disorders, 2021, 36, 37-49.	3.9	24
60	MTBVAC vaccination protects rhesus macaques against aerosol challenge with M. tuberculosis and induces immune signatures analogous to those observed in clinical studies. Npj Vaccines, 2021, 6, 4.	6.0	23
61	Functional inactivation of pulmonary MAIT cells following 5-OP-RU treatment of non-human primates. Mucosal Immunology, 2021, 14, 1055-1066.	6.0	23
62	Quantitative and Qualitative Perturbations of CD8+ MAITs in Healthy Mycobacterium tuberculosisâ€“Infected Individuals. ImmunoHorizons, 2020, 4, 292-307.	1.8	21
63	Risk assessment of latent tuberculosis infection through a multiplexed cytokine biosensor assay and machine learning feature selection. Scientific Reports, 2021, 11, 20544.	3.3	20
64	Transcriptional analysis of peripheral memory T cells reveals Parkinsonâ€™s disease-specific gene signatures. Npj Parkinson's Disease, 2022, 8, 30.	5.3	20
65	Nontuberculous Mycobacteria and Heterologous Immunity to Tuberculosis. Journal of Infectious Diseases, 2019, 220, 1091-1098.	4.0	19
66	Definition of CD4 Immunosignatures Associated with MTB. Frontiers in Immunology, 2014, 5, 124.	4.8	18
67	DAFi: A directed recursive data filtering and clustering approach for improving and interpreting data clustering identification of cell populations from polychromatic flow cytometry data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 597-610.	1.5	18
68	Experimental validation of the RATE tool for inferring HLA restrictions of T cell epitopes. BMC Immunology, 2017, 18, 20.	2.2	17
69	The role of immune-mediated alterations and disorders in ALS disease. Human Immunology, 2021, 82, 155-161.	2.4	17
70	Human CD8⁺and CD4⁺T Cell Memory to Lymphocytic Choriomeningitis Virus Infection. Journal of Virology, 2011, 85, 11770-11780.	3.4	15
71	HIV Interferes with Mycobacterium tuberculosis Antigen Presentation in Human Dendritic Cells. American Journal of Pathology, 2016, 186, 3083-3093.	3.8	15
72	T Cell Responses to Neural Autoantigens Are Similar in Alzheimerâ€™s Disease Patients and Age-Matched Healthy Controls. Frontiers in Neuroscience, 2020, 14, 874.	2.8	15

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73	CD4 TÂcells are rapidly depleted from tuberculosis granulomas following acute SIV co-infection. Cell Reports, 2022, 39, 110896.	6.4	15
74	Identification of Mycobacterial RplJ/L10 and RpsA/S1 Proteins as Novel Targets for CD4⁺T Cells. Infection and Immunity, 2017, 85, .	2.2	13
75	Characterization of Proinsulin T Cell Epitopes Restricted by Type 1 Diabetesâ€“Associated HLA Class II Molecules. Journal of Immunology, 2020, 204, 2349-2359.	0.8	13
76	Distinct blood transcriptomic signature of treatment in latent tuberculosis infected individuals at risk of developing active disease. Tuberculosis, 2021, 131, 102127.	1.9	13
77	Expression and Regulation of the Escherichia coli O157:H7 Effector Proteins NleH1 and NleH2. PLoS ONE, 2012, 7, e33408.	2.5	12
78	A High Throughput Whole Blood Assay for Analysis of Multiple Antigen-Specific T Cell Responses in Human Mycobacterium tuberculosis Infection. Journal of Immunology, 2018, 200, 3008-3019.	0.8	11
79	Is mapping the BCG vaccineâ€induced immune responses the key to improving the efficacy against tuberculosis?. Journal of Internal Medicine, 2020, 288, 651-660.	6.0	11
80	CD4+CCR6+ T cells dominate the BCG-induced transcriptional signature. EBioMedicine, 2021, 74, 103746.	6.1	11
81	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 496 adults from San Diego, California, USA. Human Immunology, 2018, 79, 821-822.	2.4	10
82	Transient Immune Activation in BCG-Vaccinated Infant Rhesus Macaques Is Not Sufficient to Influence Oral Simian Immunodeficiency Virus Infection. Journal of Infectious Diseases, 2020, 222, 44-53.	4.0	10
83	Profiling Human Cytomegalovirus-Specific T Cell Responses Reveals Novel Immunogenic Open Reading Frames. Journal of Virology, 2021, 95, e0094021.	3.4	9
84	100Âyears of the Bacillus Calmette-GuÃ©rin vaccine. Vaccine, 2021, 39, 7221-7222.	3.8	9
85	Central and Peripheral Inflammation: Connecting the Immune Responses of Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2022, 12, S129-S136.	2.8	9
86	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 339 adults from Managua, Nicaragua. Human Immunology, 2018, 79, 1-2.	2.4	8
87	Functional Analysis of Immune Signature Genes in Th1* Memory Cells Links ISOC1 and Pyrimidine Metabolism to IFN-Î³ and IL-17 Production. Journal of Immunology, 2021, 206, 1181-1193.	0.8	8
88	Proteome-Wide Zika Virus CD4 T Cell Epitope and HLA Restriction Determination. ImmunoHorizons, 2020, 4, 444-453.	1.8	8
89	Immunodominant MHC-II (Major Histocompatibility Complex II) Restricted Epitopes in Human Apolipoprotein B. Circulation Research, 2022, 131, 258-276.	4.5	8
90	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 714 adults from Colombo, Sri Lanka. Human Immunology, 2018, 79, 87-88.	2.4	7

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91	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 159 individuals from the Worcester region of the Western Cape province of South Africa. Human Immunology, 2018, 79, 143-144.	2.4	7
92	Identification of Mycobacterial Ribosomal Proteins as Targets for CD4⁺T Cells That Enhance Protective Immunity in Tuberculosis. Infection and Immunity, 2018, 86, .	2.2	7
93	Sequence-based HLA-A, B, C, DP, DQ, and DR typing of 100 Luo infants from the Boro area of Nyanza Province, Kenya. Human Immunology, 2017, 78, 325-326.	2.4	6
94	Brucella melitensis T Cell Epitope Recognition in Humans with Brucellosis in Peru. Infection and Immunity, 2014, 82, 124-131.	2.2	4
95	The interplay of sequence conservation and T cell immune recognition. , 2014, , .		2
96	Large-Scale Epitope Identification Screen and Its Potential Application to the Study of Alopecia Areata. Journal of Investigative Dermatology Symposium Proceedings, 2018, 19, S54-S56.	0.8	2
97	Editorial: Exploring Immune Variability in Susceptibility to Tuberculosis Infection in Humans. Frontiers in Immunology, 2021, 12, 830920.	4.8	1