Holden T Maecker

List of Publications by Citations

96 papers	6,904 citations	35 h-index	83 g-index
99 ext. papers	9,145 ext. citations	10.3 avg, IF	5.92 L-index

#	Paper	IF	Citations
96	The tetraspanin superfamily: molecular facilitators. *FASEB Journal*, **1997**, 11, 428-442	0.9	784
95	Standardizing immunophenotyping for the Human Immunology Project. *Nature Reviews Immunology*, **2012**, 12, 191-200	36.5	674
94	Variation in the human immune system is largely driven by non-heritable influences. *Cell*, **2015**, 160, 37-47	36.2	586
93	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). *European Journal of Immunology*, **2019**, 49, 1457-1973	6.1	485
92	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. *Science*, **2020**, 369, 1210-1220	33.3	485
91	CD81 (TAPA-1): a molecule involved in signal transduction and cell adhesion in the immune system. *Annual Review of Immunology*, **1998**, 16, 89-109	34.7	420
90	Guidelines for the use of flow cytometry and cell sorting in immunological studies. *European Journal of Immunology*, **2017**, 47, 1584-1797	6.1	359
89	Normal lymphocyte development but delayed humoral immune response in CD81-null mice. *Journal of Experimental Medicine*, **1997**, 185, 1505-10	16.6	209
88	Cytomegalovirus infection enhances the immune response to influenza. *Science Translational Medicine*, **2015**, 7, 281ra43	17.5	205
87	Cytokine signature associated with disease severity in chronic fatigue syndrome patients. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7150-E7158	11.5	171
86	A clinically meaningful metric of immune age derived from high-dimensional longitudinal monitoring. *Nature Medicine*, **2019**, 25, 487-495	50.5	162
85	A Prospective Clinical Trial Combining Radiation Therapy With Systemic Immunotherapy in Metastatic Melanoma. *International Journal of Radiation Oncology Biology Physics*, **2016**, 96, 578-88	4	151
84	Novel technologies and emerging biomarkers for personalized cancer immunotherapy **2016**, 4, 3		146
83	Barcoding of live human peripheral blood mononuclear cells for multiplexed mass cytometry. *Journal of Immunology*, **2015**, 194, 2022-31	5.3	109
82	Cytokine profile in plasma of severe COVID-19 does not differ from ARDS and sepsis. *JCI Insight*, **2020**, 5,	9.9	106
81	A model for harmonizing flow cytometry in clinical trials. *Nature Immunology*, **2010**, 11, 975-8	19.1	105
80	Distinct predictive biomarker candidates for response to anti-CTLA-4 and anti-PD-1 immunotherapy in melanoma patients **2018**, 6, 18		102

79	Autoimmunity to hypocretin and molecular mimicry to flu in type 1 narcolepsy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E12323-E12332	11.5	102
78	Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1286-95	11.5	85
77	Effects of serum and plasma matrices on multiplex immunoassays. *Immunologic Research*, **2014**, 58, 224-33	4.3	80
76	Algorithmic Tools for Mining High-Dimensional Cytometry Data. *Journal of Immunology*, **2015**, 195, 773-9	5.3	74
75	New tools for classification and monitoring of autoimmune diseases. *Nature Reviews Rheumatology*, **2012**, 8, 317-28	8.1	73
74	Defective Signaling in the JAK-STAT Pathway Tracks with Chronic Inflammation and Cardiovascular Risk in Aging Humans. *Cell Systems*, **2016**, 3, 374-384.e4	10.6	73
73	Multiparameter Phenotyping of Human PBMCs Using Mass Cytometry. *Methods in Molecular Biology*, **2015**, 1343, 81-95	1.4	71
72	Platinum-conjugated antibodies for application in mass cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2016**, 89, 292-300	4.6	70
71	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. *Nature*, **2021**, 596, 410-416	50.4	67
70	DNA fragmentation and cell death mediated by T cell antigen receptor/CD3 complex on a leukemia T cell line. *European Journal of Immunology*, **1989**, 19, 1911-9	6.1	63
69	Large-Scale and Comprehensive Immune Profiling and Functional Analysis of Normal Human Aging. *PLoS ONE*, **2015**, 10, e0133627	3.7	61
68	Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis. *Journal of Allergy and Clinical Immunology*, **2017**, 139, 889-899.e11	11.5	59
67	Autoantibody-Positive Healthy Individuals Display Unique Immune Profiles That May Regulate Autoimmunity. *Arthritis and Rheumatology*, **2016**, 68, 2492-502	9.5	57
66	The anatomy of single cell mass cytometry data. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2019**, 95, 156-172	4.6	55
65	Thinking outside the gate: single-cell assessments in multiple dimensions. *Immunity*, **2015**, 42, 591-2	32.3	51
64	Comprehensive Immune Monitoring of Clinical Trials to Advance Human Immunotherapy. *Cell Reports*, **2019**, 28, 819-831.e4	10.6	48
63	Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy. *Arthritis Research and Therapy*, **2015**, 17, 127	5.7	41
62	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. *Nature Aging*, **2021**, 1, 598-615		36

61	Monitoring the immune competence of cancer patients to predict outcome. *Cancer Immunology, Immunotherapy*, **2014**, 63, 713-9	7.4	34
60	Vitamin d deficiency in a multiethnic healthy control cohort and altered immune response in vitamin D deficient European-American healthy controls. *PLoS ONE*, **2014**, 9, e94500	3.7	31
59	IFN priming is necessary but not sufficient to turn on a migratory dendritic cell program in lupus monocytes. *Journal of Immunology*, **2014**, 192, 5586-98	5.3	27
58	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. *Cell*, **2021**, 184, 3915-3935.e21	56.2	23
57	Wild immunology assessed by multidimensional mass cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2017**, 91, 85-95	4.6	20
56	Immune monitoring technology primer: flow and mass cytometry **2015**, 3, 44		19
55	Vaccine-Induced Memory CD8 T Cells Provide Clinical Benefit in HER2 Expressing Breast Cancer: A Mouse to Human Translational Study. *Clinical Cancer Research*, **2019**, 25, 2725-2736	12.9	19
54	Intracellular Cytokine Staining on PBMCs Using CyTOF Mass Cytometry. *Bio-protocol*, **2015**, 5,	0.9	17
53	Diminished B-Cell Response After Repeat Influenza Vaccination. *Journal of Infectious Diseases*, **2019**, 219, 1586-1595	7	17
52	MYC functions as a switch for natural killer cell-mediated immune surveillance of lymphoid malignancies. *Nature Communications*, **2020**, 11, 2860	17.4	16
51	Multiparameter Intracellular Cytokine Staining. *Methods in Molecular Biology*, **2018**, 1678, 151-166	1.4	16
50	Immune Profiles to Predict Response to Desensitization Therapy in Highly HLA-Sensitized Kidney Transplant Candidates. *PLoS ONE*, **2016**, 11, e0153355	3.7	16
49	flowCL: ontology-based cell population labelling in flow cytometry. *Bioinformatics*, **2015**, 31, 1337-9	7.2	15
48	Baseline immune profile by CyTOF can predict response to an investigational adjuvanted vaccine in elderly adults. *Journal of Translational Medicine*, **2018**, 16, 153	8.5	15
47	CyTOF Measurement of Immunocompetence Across Major Immune Cell Types. *Current Protocols in Cytometry*, **2017**, 82, 9.54.1-9.54.12	3.6	12
46	Mass Cytometry Assays for Antigen-Specific T Cells Using CyTOF. *Methods in Molecular Biology*, **2018**, 1678, 37-47	1.4	12
45	Predictors of clinical response to immunotherapy with or without radiotherapy. *Journal of Radiation Oncology*, **2015**, 4, 339-345	0.7	11
44	High-Parameter Immune Profiling with CyTOF. *Methods in Molecular Biology*, **2020**, 2055, 351-368	1.4	11

43	Autoantibody-positive healthy individuals with lower lupus risk display a unique immune endotype. *Journal of Allergy and Clinical Immunology*, **2020**, 146, 1419-1433	11.5	10
42	Impaired Immune Health in Survivors of Diffuse Large B-Cell Lymphoma. *Journal of Clinical Oncology*, **2020**, 38, 1664-1675	2.2	10
41	Interleukin 4 is inactivated via selective disulfide-bond reduction by extracellular thioredoxin. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8781-8786	11.5	10
40	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.. *Science Translational Medicine*, **2022**, 14, eabm7853	17.5	10
39	Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. *Clinical Immunology*, **2020**, 219, 108568	9	8
38	The FluPRINT dataset, a multidimensional analysis of the influenza vaccine imprint on the immune system. *Scientific Data*, **2019**, 6, 214	8.2	7
37	An initial investigation of serum cytokine levels in patients with gadolinium retention. *Radiologia Brasileira*, **2020**, 53, 306-313	1.7	7
36	Activated natural killer cells predict poor clinical prognosis in high-risk B- and T-cell acute lymphoblastic leukemia. *Blood*, **2021**, 138, 1465-1480	2.2	7
35	Guidelines for Gating Flow Cytometry Data for Immunological Assays. *Methods in Molecular Biology*, **2019**, 2032, 81-104	1.4	6
34	Disease characteristics and serological responses in patients with differing severity of COVID-19 infection: A longitudinal cohort study in Dhaka, Bangladesh.. *PLoS Neglected Tropical Diseases*, **2022**, 16, e0010102	4.8	5
33	Isolation of Peripheral Blood Mononuclear Cells Using Vacutainer Cellular Preparation Tubes (CPT). *Bio-protocol*, **2017**, 7, e2103	0.9	5
32	SITC cancer immunotherapy resource document: a compass in the land of biomarker discovery **2020**, 8,		5
31	Immune changes beyond Th2 pathways during rapid multifood immunotherapy enabled with omalizumab. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 2809-2826	9.3	5
30	Aging and CMV discordance are associated with increased immune diversity between monozygotic twins. *Immunity and Ageing*, **2021**, 18, 5	9.7	5
29	IL-7 expands lymphocyte populations and enhances immune responses to sipuleucel-T in patients with metastatic castration-resistant prostate cancer (mCRPC) **2021**, 9,		5
28	Signatures of immune dysfunction in HIV and HCV infection share features with chronic inflammation in aging and persist after viral reduction or elimination. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
27	Immune profiling of COVID-19: preliminary findings and implications for the pandemic **2021**, 9,		4
26	Differences in multiple immune parameters between Indian and U.S. infants. *PLoS ONE*, **2018**, 13, e0207297	3.7	4

25	Getting the Most from Your High-Dimensional Cytometry Data. *Immunity*, **2019**, 50, 535-536	32.3	3
24	A Novel Utility to Correct for Plate/Batch/Lot and Nonspecific Binding Artifacts in Luminex Data. *Journal of Immunology*, **2020**, 204, 3425-3433	5.3	3
23	Vi-Vaccinations Induce Heterogeneous Plasma Cell Responses That Associate With Protection From Typhoid Fever. *Frontiers in Immunology*, **2020**, 11, 574057	8.4	3
22	Penalized Supervised Star Plots: Example Application in Influenza-Specific CD4+ T Cells. *Viral Immunology*, **2019**, 32, 102-109	1.7	2
21	Durable Responses with Pembrolizumab in Relapsed/Refractory Mycosis Fungoides and Sézary Syndrome: Final Results from a Phase 2 Multicenter Study. *Blood*, **2018**, 132, 2896-2896	2.2	2
20	Mass Cytometry Defines Virus-Specific CD4 T Cells in Influenza Vaccination. *ImmunoHorizons*, **2020**, 4, 774-788	2.7	2
19	Platelet transcriptome identifies progressive markers and potential therapeutic targets in chronic myeloproliferative neoplasms. *Cell Reports Medicine*, **2021**, 2, 100425	18	2
18	Protective Effect of Saffron in Mouse Colitis Models Through Immune Modulation. *Digestive Diseases and Sciences*, **2021**, 1	4	2
17	Novel Circulating and Tissue Monocytes as Well as Macrophages in Pancreatitis and Recovery. *Gastroenterology*, **2021**, 161, 2014-2029.e14	13.3	2
16	Acute Chelation Therapy-Associated Changes in Urine Gadolinium, Self-reported Flare Severity, and Serum Cytokines in Gadolinium Deposition Disease. *Investigative Radiology*, **2021**, 56, 374-384	10.1	2
15	Opening the Door on the CMV Immune Response in Aging. *Journal of Infectious Diseases*, **2017**, 215, 1179-1180	7	1
14	Reducing variability in flow cytometry. *Nature Reviews Immunology*, **2012**, 12, 396-396	36.5	1
13	Altered Functional Mitochondrial Protein Levels in Plasma Neuron-Derived Extracellular Vesicles of Patients With Gadolinium Deposition.. *Frontiers in Toxicology*, **2021**, 3, 797496	1.6	1
12	MYC Functions As a Master Switch for Natural Killer Cell-Mediated Immune Surveillance of Lymphoid Malignancies. *Blood*, **2018**, 132, 2619-2619	2.2	1
11	Immune Profiling Mass Cytometry Assay Harmonization: Multicenter Experience from CIMAC-CIDC. *Clinical Cancer Research*, **2021**, 27, 5062-5071	12.9	1
10	Network for Biomarker Immunoprofiling for Cancer Immunotherapy: Cancer Immune Monitoring and Analysis Centers and Cancer Immunologic Data Commons (CIMAC-CIDC). *Clinical Cancer Research*, **2021**, 27, 5038-5048	12.9	1
9	Mass Cytometry Analysis of T-Helper Cells. *Methods in Molecular Biology*, **2021**, 2285, 49-63	1.4	1
8	Inflammatory cytokines and callosal white matter microstructure in adolescents.. *Brain, Behavior, and Immunity*, **2021**, 100, 321-331	16.6	0

7	Dynamic Serial Cytokine Measurements During Intravenous Ca-DTPA Chelation in Gadolinium Deposition Disease and Gadolinium Storage Condition: A Pilot Study. *Investigative Radiology*, **2022**, 57, 71-76	10.1	0
6	Reply to Roerink et al: Methods for recruitment, serum separation, and storage were the same for patients and controls. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9436	11.5	
5	0016 Autoimmunity To Hypocretin And Molecular Mimicry To Flu In Type 1 Narcolepsy. *Sleep*, **2019**, 42, A6-A7	1.1	
4	Activated Natural Killer Cells Are Associated with Poor Clinical Prognosis in High-Risk B- and T- Cell Acute Lymphoblastic Leukemia. *Blood*, **2020**, 136, 39-39	2.2	
3	Platelet Transcriptome Yields Progressive Markers in Chronic Myeloproliferative Neoplasms and Identifies Putative Targets of Therapy. *Blood*, **2021**, 138, 1469-1469	2.2	
2	A Proinflammatory Invariant Natural Killer T Cells Phenotypic State Associates with Human Graft-Versus-Host Disease Onset and Response. *Blood*, **2018**, 132, 2111-2111	2.2	
1	MYC Oncogene Abrogates Natural Killer (NK) Cell-Mediated Immune Surveillance of B- and T-Lymphoid Malignancies By Suppressing STAT1/2-Type I IFN Signaling. *Blood*, **2019**, 134, 730-730	2.2	