

# Holden T Maecker

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

10,577  
citations

94381

37  
h-index

51562

86  
g-index

99  
all docs

99  
docs citations

99  
times ranked

19722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems biological assessment of immunity to mild versus severe COVID-19 infection in humans. <i>Science</i> , 2020, 369, 1210-1220.	6.0	947
2	Standardizing immunophenotyping for the Human Immunology Project. <i>Nature Reviews Immunology</i> , 2012, 12, 191-200.	10.6	919
3	The tetraspanin superfamily: molecular facilitators. <i>FASEB Journal</i> , 1997, 11, 428-442.	0.2	864
4	Variation in the Human Immune System Is Largely Driven by Non-Heritable Influences. <i>Cell</i> , 2015, 160, 37-47.	13.5	828
5	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , 2019, 49, 1457-1973.	1.6	766
6	Guidelines for the use of flow cytometry and cell sorting in immunological studies <sup>*</sup> . <i>European Journal of Immunology</i> , 2017, 47, 1584-1797.	1.6	505
7	CD81 (TAPA-1): A MOLECULE INVOLVED IN SIGNAL TRANSDUCTION AND CELL ADHESION IN THE IMMUNE SYSTEM. <i>Annual Review of Immunology</i> , 1998, 16, 89-109.	9.5	472
8	A clinically meaningful metric of immune age derived from high-dimensional longitudinal monitoring. <i>Nature Medicine</i> , 2019, 25, 487-495.	15.2	317
9	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. <i>Nature</i> , 2021, 596, 410-416.	13.7	313
10	Cytokine signature associated with disease severity in chronic fatigue syndrome patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7150-E7158.	3.3	283
11	Cytomegalovirus infection enhances the immune response to influenza. <i>Science Translational Medicine</i> , 2015, 7, 281ra43.	5.8	277
12	Normal Lymphocyte Development but Delayed Humoral Immune Response in CD81-null Mice. <i>Journal of Experimental Medicine</i> , 1997, 185, 1505-1510.	4.2	222
13	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , 2021, 1, 598-615.	5.3	202
14	Cytokine profile in plasma of severe COVID-19 does not differ from ARDS and sepsis. <i>JCI Insight</i> , 2020, 5, .	2.3	196
15	A Prospective Clinical Trial Combining Radiation Therapy With Systemic Immunotherapy in Metastatic Melanoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, 578-588.	0.4	190
16	Novel technologies and emerging biomarkers for personalized cancer immunotherapy. , 2016, 4, 3.		183
17	Barcoding of Live Human Peripheral Blood Mononuclear Cells for Multiplexed Mass Cytometry. <i>Journal of Immunology</i> , 2015, 194, 2022-2031.	0.4	156
18	Distinct predictive biomarker candidates for response to anti-CTLA-4 and anti-PD-1 immunotherapy in melanoma patients. , 2018, 6, 18.		153

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19	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.	3.3	147
20	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. Cell, 2021, 184, 3915-3935.e21.	13.5	133
21	A model for harmonizing flow cytometry in clinical trials. Nature Immunology, 2010, 11, 975-978.	7.0	130
22	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.	3.3	115
23	Algorithmic Tools for Mining High-Dimensional Cytometry Data. Journal of Immunology, 2015, 195, 773-779.	0.4	111
24	Defective Signaling in the JAK-STAT Pathway Tracks with Chronic Inflammation and Cardiovascular Risk in Aging Humans. Cell Systems, 2016, 3, 374-384.e4.	2.9	107
25	Effects of serum and plasma matrices on multiplex immunoassays. Immunologic Research, 2014, 58, 224-233.	1.3	104
26	Platinum-conjugated antibodies for application in mass cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 292-300.	1.1	98
27	Multiparameter Phenotyping of Human PBMCs Using Mass Cytometry. Methods in Molecular Biology, 2015, 1343, 81-95.	0.4	91
28	Comprehensive Immune Monitoring of Clinical Trials to Advance Human Immunotherapy. Cell Reports, 2019, 28, 819-831.e4.	2.9	91
29	Large-Scale and Comprehensive Immune Profiling and Functional Analysis of Normal Human Aging. PLoS ONE, 2015, 10, e0133627.	1.1	90
30	The anatomy of single cell mass cytometry data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 156-172.	1.1	85
31	New tools for classification and monitoring of autoimmune diseases. Nature Reviews Rheumatology, 2012, 8, 317-328.	3.5	81
32	Autoantibody-Positive Healthy Individuals Display Unique Immune Profiles That May Regulate Autoimmunity. Arthritis and Rheumatology, 2016, 68, 2492-2502.	2.9	79
33	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.	1.5	71
34	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. Science Translational Medicine, 2022, 14, eabm7853.	5.8	71
35	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, 1911-1919.	1.6	68
36	Thinking Outside the Gate: Single-Cell Assessments in Multiple Dimensions. Immunity, 2015, 42, 591-592.	6.6	67

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37	Mass cytometry as a platform for the discovery of cellular biomarkers to guide effective rheumatic disease therapy. <i>Arthritis Research and Therapy</i> , 2015, 17, 127.	1.6	53
38	Vaccine-Induced Memory CD8+ T Cells Provide Clinical Benefit in HER2 Expressing Breast Cancer: A Mouse to Human Translational Study. <i>Clinical Cancer Research</i> , 2019, 25, 2725-2736.	3.2	50
39	MYC functions as a switch for natural killer cell-mediated immune surveillance of lymphoid malignancies. <i>Nature Communications</i> , 2020, 11, 2860.	5.8	45
40	IFN Priming Is Necessary but Not Sufficient To Turn on a Migratory Dendritic Cell Program in Lupus Monocytes. <i>Journal of Immunology</i> , 2014, 192, 5586-5598.	0.4	40
41	Monitoring the immune competence of cancer patients to predict outcome. <i>Cancer Immunology, Immunotherapy</i> , 2014, 63, 713-719.	2.0	39
42	Vitamin D Deficiency in a Multiethnic Healthy Control Cohort and Altered Immune Response in Vitamin D Deficient European-American Healthy Controls. <i>PLoS ONE</i> , 2014, 9, e94500.	1.1	37
43	Diminished B-Cell Response After Repeat Influenza Vaccination. <i>Journal of Infectious Diseases</i> , 2019, 219, 1586-1595.	1.9	36
44	IL-7 expands lymphocyte populations and enhances immune responses to sipuleucel-T in patients with metastatic castration-resistant prostate cancer (mCRPC). , 2021, 9, e002903.		36
45	Activated natural killer cells predict poor clinical prognosis in high-risk B- and T-cell acute lymphoblastic leukemia. <i>Blood</i> , 2021, 138, 1465-1480.	0.6	34
46	Immune Profiles to Predict Response to Desensitization Therapy in Highly HLA-Sensitized Kidney Transplant Candidates. <i>PLoS ONE</i> , 2016, 11, e0153355.	1.1	29
47	Immune monitoring technology primer: flow and mass cytometry. , 2015, 3, 44.		27
48	Wild immunology assessed by multidimensional mass cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 85-95.	1.1	27
49	Autoantibody-positive healthy individuals with lower lupus risk display a unique immune endotype. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1419-1433.	1.5	27
50	flowCL: ontology-based cell population labelling in flow cytometry. <i>Bioinformatics</i> , 2015, 31, 1337-1339.	1.8	25
51	Novel Circulating and Tissue Monocytes as Well as Macrophages in Pancreatitis and Recovery. <i>Gastroenterology</i> , 2021, 161, 2014-2029.e14.	0.6	25
52	Intracellular Cytokine Staining on PBMCs Using CyTOFTM Mass Cytometry. <i>Bio-protocol</i> , 2015, 5, .	0.2	25
53	Multiparameter Intracellular Cytokine Staining. <i>Methods in Molecular Biology</i> , 2018, 1678, 151-166.	0.4	23
54	High-Parameter Immune Profiling with CyTOF. <i>Methods in Molecular Biology</i> , 2020, 2055, 351-368.	0.4	23

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55	Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. <i>Clinical Immunology</i> , 2020, 219, 108568.	1.4	22
56	Interleukin 4 is inactivated via selective disulfide-bond reduction by extracellular thioredoxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8781-8786.	3.3	20
57	SITC cancer immunotherapy resource document: a compass in the land of biomarker discovery. , 2020, 8, e000705.		20
58	Impaired Immune Health in Survivors of Diffuse Large B-Cell Lymphoma. <i>Journal of Clinical Oncology</i> , 2020, 38, 1664-1675.	0.8	20
59	Platelet transcriptome identifies progressive markers and potential therapeutic targets in chronic myeloproliferative neoplasms. <i>Cell Reports Medicine</i> , 2021, 2, 100425.	3.3	20
60	Baseline immune profile by CyTOF can predict response to an investigational adjuvanted vaccine in elderly adults. <i>Journal of Translational Medicine</i> , 2018, 16, 153.	1.8	19
61	Ageing and CMV discordance are associated with increased immune diversity between monozygotic twins. <i>Immunity and Ageing</i> , 2021, 18, 5.	1.8	19
62	Signatures of immune dysfunction in HIV and HCV infection share features with chronic inflammation in aging and persist after viral reduction or elimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
63	Immune changes beyond Th2 pathways during rapid multifood immunotherapy enabled with omalizumab. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 2809-2826.	2.7	18
64	Disease characteristics and serological responses in patients with differing severity of COVID-19 infection: A longitudinal cohort study in Dhaka, Bangladesh. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010102.	1.3	18
65	Predictors of clinical response to immunotherapy with or without radiotherapy. <i>Journal of Radiation Oncology</i> , 2015, 4, 339-345.	0.7	17
66	Mass Cytometry Assays for Antigen-Specific T Cells Using CyTOF. <i>Methods in Molecular Biology</i> , 2018, 1678, 37-47.	0.4	17
67	Isolation of PBMCs Using Vacutainer&#174; Cellular Preparation Tubes (CPTTM). <i>Bio-protocol</i> , 2017, 7, e2103.	0.2	17
68	Guidelines for Gating Flow Cytometry Data for Immunological Assays. <i>Methods in Molecular Biology</i> , 2019, 2032, 81-104.	0.4	16
69	An initial investigation of serum cytokine levels in patients with gadolinium retention. <i>Radiologia Brasileira</i> , 2020, 53, 306-313.	0.3	16
70	CyTOF Measurement of Immunocompetence Across Major Immune Cell Types. <i>Current Protocols in Cytometry</i> , 2017, 82, 9.54.1-9.54.12.	3.7	15
71	Immune profiling of COVID-19: preliminary findings and implications for the pandemic. , 2021, 9, e002550.		15
72	A Novel Utility to Correct for Plate/Batch/Lot and Nonspecific Binding Artifacts in Luminex Data. <i>Journal of Immunology</i> , 2020, 204, 3425-3433.	0.4	13

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73	Network for Biomarker Immunoprofiling for Cancer Immunotherapy: Cancer Immune Monitoring and Analysis Centers and Cancer Immunologic Data Commons (CIMAC-CIDC). <i>Clinical Cancer Research</i> , 2021, 27, 5038-5048.	3.2	13
74	The FluPRINT dataset, a multidimensional analysis of the influenza vaccine imprint on the immune system. <i>Scientific Data</i> , 2019, 6, 214.	2.4	11
75	Vi-Vaccinations Induce Heterogeneous Plasma Cell Responses That Associate With Protection From Typhoid Fever. <i>Frontiers in Immunology</i> , 2020, 11, 574057.	2.2	11
76	Acute Chelation Therapy-Associated Changes in Urine Gadolinium, Self-reported Flare Severity, and Serum Cytokines in Gadolinium Deposition Disease. <i>Investigative Radiology</i> , 2021, 56, 374-384.	3.5	10
77	Inflammatory cytokines and callosal white matter microstructure in adolescents. <i>Brain, Behavior, and Immunity</i> , 2022, 100, 321-331.	2.0	10
78	Single-Cell Immune Mapping of Melanoma Sentinel Lymph Nodes Reveals an Actionable Immunotolerant Microenvironment. <i>Clinical Cancer Research</i> , 2022, 28, 2069-2081.	3.2	9
79	Protective Effect of Saffron in Mouse Colitis Models Through Immune Modulation. <i>Digestive Diseases and Sciences</i> , 2022, 67, 2922-2935.	1.1	8
80	Immune Profiling Mass Cytometry Assay Harmonization: Multicenter Experience from CIMAC-CIDC. <i>Clinical Cancer Research</i> , 2021, 27, 5062-5071.	3.2	8
81	Mass Cytometry Analysis of T-Helper Cells. <i>Methods in Molecular Biology</i> , 2021, 2285, 49-63.	0.4	7
82	Differences in multiple immune parameters between Indian and U.S. infants. <i>PLoS ONE</i> , 2018, 13, e0207297.	1.1	6
83	Dynamic Serial Cytokine Measurements During Intravenous Ca-DTPA Chelation in Gadolinium Deposition Disease and Gadolinium Storage Condition. <i>Investigative Radiology</i> , 2022, 57, 71-76.	3.5	5
84	MYC Functions As a Master Switch for Natural Killer Cell-Mediated Immune Surveillance of Lymphoid Malignancies. <i>Blood</i> , 2018, 132, 2619-2619.	0.6	5
85	Penalized Supervised Star Plots: Example Application in Influenza-Specific CD4+ T Cells. <i>Viral Immunology</i> , 2019, 32, 102-109.	0.6	4
86	Getting the Most from Your High-Dimensional Cytometry Data. <i>Immunity</i> , 2019, 50, 535-536.	6.6	3
87	Mass Cytometry Defines Virus-Specific CD4+ T Cells in Influenza Vaccination. <i>ImmunoHorizons</i> , 2020, 4, 774-788.	0.8	3
88	Altered Functional Mitochondrial Protein Levels in Plasma Neuron-Derived Extracellular Vesicles of Patients With Gadolinium Deposition. <i>Frontiers in Toxicology</i> , 2021, 3, 797496.	1.6	3
89	Durable Responses with Pembrolizumab in Relapsed/Refractory Mycosis Fungoides and S�azary Syndrome: Final Results from a Phase 2 Multicenter Study. <i>Blood</i> , 2018, 132, 2896-2896.	0.6	2
90	Reducing variability in flow cytometry. <i>Nature Reviews Immunology</i> , 2012, 12, 396-396.	10.6	1

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91	Opening the Door on the CMV Immune Response in Aging. <i>Journal of Infectious Diseases</i> , 2017, 215, 1179-1180.	1.9	1
92	Reply to Roerink et al: Methods for recruitment, serum separation, and storage were the same for patients and controls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9436-E9436.	3.3	0
93	0016 Autoimmunity To Hypocretin And Molecular Mimicry To Flu In Type 1 Narcolepsy. <i>Sleep</i> , 2019, 42, A6-A7.	0.6	0
94	A Proinflammatory Invariant Natural Killer T Cells Phenotypic State Associates with Human Graft-Versus-Host Disease Onset and Response. <i>Blood</i> , 2018, 132, 2111-2111.	0.6	0
95	MYC Oncogene Abrogates Natural Killer (NK) Cell-Mediated Immune Surveillance of B- and T- Lymphoid Malignancies By Suppressing STAT1/2-Type I IFN Signaling. <i>Blood</i> , 2019, 134, 730-730.	0.6	0
96	Platelet Transcriptome Yields Progressive Markers in Chronic Myeloproliferative Neoplasms and Identifies Putative Targets of Therapy. <i>Blood</i> , 2021, 138, 1469-1469.	0.6	0
97	Activated Natural Killer Cells Are Associated with Poor Clinical Prognosis in High-Risk B- and T- Cell Acute Lymphoblastic Leukemia. <i>Blood</i> , 2020, 136, 39-39.	0.6	0