

# Ramon Arens

## List of Publications by Year in descending order

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124  
papers

7,936  
citations

44042

48  
h-index

56687

83  
g-index

141  
all docs

141  
docs citations

141  
times ranked

12261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic cancer vaccines. <i>Journal of Clinical Investigation</i> , 2015, 125, 3401-3412.	3.9	640
2	Vaccines for established cancer: overcoming the challenges posed by immune evasion. <i>Nature Reviews Cancer</i> , 2016, 16, 219-233.	12.8	580
3	Constitutive CD27/CD70 Interaction Induces Expansion of Effector-Type T Cells and Results in IFN $\gamma$ -Mediated B Cell Depletion. <i>Immunity</i> , 2001, 15, 801-812.	6.6	224
4	Lethal T cell immunodeficiency induced by chronic costimulation via CD27-CD70 interactions. <i>Nature Immunology</i> , 2003, 4, 49-54.	7.0	214
5	Autocrine IL-2 is required for secondary population expansion of CD8 <sup>+</sup> memory T cells. <i>Nature Immunology</i> , 2011, 12, 908-913.	7.0	214
6	In Vivo Killing Capacity of Cytotoxic T Cells Is Limited and Involves Dynamic Interactions and T Cell Cooperativity. <i>Immunity</i> , 2016, 44, 233-245.	6.6	199
7	Plasticity in programming of effector and memory CD8 <sup>+</sup> T cell formation. <i>Immunological Reviews</i> , 2010, 235, 190-205.	2.8	176
8	Expression of the Murine CD27 Ligand CD70 In Vitro and In Vivo. <i>Journal of Immunology</i> , 2003, 170, 33-40.	0.4	172
9	Controlled Local Delivery of CTLA-4 Blocking Antibody Induces CD8 <sup>+</sup> T-Cell-Dependent Tumor Eradication and Decreases Risk of Toxic Side Effects. <i>Clinical Cancer Research</i> , 2013, 19, 5381-5389.	3.2	172
10	Vaccination during myeloid cell depletion by cancer chemotherapy fosters robust T cell responses. <i>Science Translational Medicine</i> , 2016, 8, 334ra52.	5.8	164
11	Sustained antibody responses depend on CD28 function in bone marrow-resident plasma cells. <i>Journal of Experimental Medicine</i> , 2011, 208, 1435-1446.	4.2	156
12	Local Activation of CD8 T Cells and Systemic Tumor Eradication without Toxicity via Slow Release and Local Delivery of Agonistic CD40 Antibody. <i>Clinical Cancer Research</i> , 2011, 17, 2270-2280.	3.2	147
13	Memory T cell inflation: understanding cause and effect. <i>Trends in Immunology</i> , 2012, 33, 84-90.	2.9	140
14	Tumor Rejection Induced by CD70-mediated Quantitative and Qualitative Effects on Effector CD8 <sup>+</sup> T Cell Formation. <i>Journal of Experimental Medicine</i> , 2004, 199, 1595-1605.	4.2	136
15	Recruitment of Antigen-Specific CD8 <sup>+</sup> T Cells in Response to Infection Is Markedly Efficient. <i>Science</i> , 2009, 325, 1265-1269.	6.0	133
16	Tissue-resident memory CD8 <sup>+</sup> T cells shape local and systemic secondary T cell responses. <i>Nature Immunology</i> , 2020, 21, 1070-1081.	7.0	111
17	The activation of the adaptive immune system: Cross-talk between antigen-presenting cells, T cells and B cells. <i>Immunology Letters</i> , 2014, 162, 103-112.	1.1	110
18	Tumor Eradication by Cisplatin Is Sustained by CD80/86-Mediated Costimulation of CD8 <sup>+</sup> T Cells. <i>Cancer Research</i> , 2016, 76, 6017-6029.	0.4	108

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19	Dissecting T cell lineage relationships by cellular barcoding. <i>Journal of Experimental Medicine</i> , 2008, 205, 2309-2318.	4.2	107
20	Signaling through CD70 Regulates B Cell Activation and IgG Production. <i>Journal of Immunology</i> , 2004, 173, 3901-3908.	0.4	106
21	CD27-CD70 interactions sensitise naive CD4+ T cells for IL-12-induced Th1 cell development. <i>International Immunology</i> , 2007, 19, 713-718.	1.8	104
22	T cell maintenance is regulated by tissue damage via P2RX7. <i>Science Immunology</i> , 2018, 3, .	5.6	103
23	B Cells Are Crucial for Both Development and Maintenance of the Splenic Marginal Zone. <i>Journal of Immunology</i> , 2004, 172, 3620-3627.	0.4	97
24	The CD4+ T-cell help signal is transmitted from APC to CD8+ T-cells via CD27-CD70 interactions. <i>Nature Communications</i> , 2012, 3, 948.	5.8	97
25	Cutting Edge: Murine Cytomegalovirus Induces a Polyfunctional CD4 T Cell Response. <i>Journal of Immunology</i> , 2008, 180, 6472-6476.	0.4	95
26	Uncoupling DNA damage from chromatin damage to detoxify doxorubicin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15182-15192.	3.3	93
27	Features of Effective T Cell-Inducing Vaccines against Chronic Viral Infections. <i>Frontiers in Immunology</i> , 2018, 9, 276.	2.2	91
28	Vaccine-Induced Effector-Memory CD8+ T Cell Responses Predict Therapeutic Efficacy against Tumors. <i>Journal of Immunology</i> , 2012, 189, 3397-3403.	0.4	83
29	Vaccine-Induced Tumor Necrosis Factor-Producing T Cells Synergize with Cisplatin to Promote Tumor Cell Death. <i>Clinical Cancer Research</i> , 2015, 21, 781-794.	3.2	81
30	Reactive oxygen species as an initiator of toxic innate immune responses in retort to SARS-CoV-2 in an ageing population, consider N-acetylcysteine as early therapeutic intervention. <i>Toxicology Reports</i> , 2020, 7, 768-771.	1.6	79
31	Viral inoculum dose impacts memory T cell inflation. <i>European Journal of Immunology</i> , 2014, 44, 1046-1057.	1.6	73
32	The hallmarks of CMV-specific CD8 T-cell differentiation. <i>Medical Microbiology and Immunology</i> , 2019, 208, 365-373.	2.6	71
33	CMV immune evasion and manipulation of the immune system with aging. <i>GeroScience</i> , 2017, 39, 273-291.	2.1	69
34	B Cell-Specific Expression of B7-2 Is Required for Follicular Th Cell Function in Response to Vaccinia Virus. <i>Journal of Immunology</i> , 2011, 186, 5294-5303.	0.4	68
35	Local targets for immune therapy to cancer: Tumor draining lymph nodes and tumor microenvironment. <i>International Journal of Cancer</i> , 2013, 132, 1971-1976.	2.3	68
36	Therapeutic Peptide Vaccine-Induced CD8 T Cells Strongly Modulate Intratumoral Macrophages Required for Tumor Regression. <i>Cancer Immunology Research</i> , 2015, 3, 1042-1051.	1.6	68

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37	CD27-CD70 Costimulation Controls T Cell Immunity during Acute and Persistent Cytomegalovirus Infection. <i>Journal of Virology</i> , 2013, 87, 6851-6865.	1.5	66
38	T cell co-stimulation and co-inhibition in cardiovascular disease: a double-edged sword. <i>Nature Reviews Cardiology</i> , 2019, 16, 325-343.	6.1	65
39	The TNFR family members OX40 and CD27 link viral virulence to protective T cell vaccines in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 296-307.	3.9	65
40	Mucosal memory CD8+ T cells are selected in the periphery by an MHC class I molecule. <i>Nature Immunology</i> , 2011, 12, 1086-1095.	7.0	63
41	Interleukin-21 Receptor-Mediated Signals Control Autoreactive T Cell Infiltration in Pancreatic Islets. <i>Immunity</i> , 2012, 36, 1060-1072.	6.6	63
42	Improving Adoptive T Cell Therapy: The Particular Role of T Cell Costimulation, Cytokines, and Post-Transfer Vaccination. <i>Frontiers in Immunology</i> , 2016, 7, 345.	2.2	59
43	Properties of murine CD8+CD27- T cells. <i>European Journal of Immunology</i> , 2005, 35, 3131-3141.	1.6	57
44	Priming of CD8+ T Cells against Cytomegalovirus-Encoded Antigens Is Dominated by Cross-Presentation. <i>Journal of Immunology</i> , 2013, 190, 2767-2777.	0.4	57
45	Immune activation modulates hematopoiesis through interactions between CD27 and CD70. <i>Nature Immunology</i> , 2005, 6, 412-418.	7.0	56
46	Peptide Processing Is Critical for T-Cell Memory Inflation and May Be Optimized to Improve Immune Protection by CMV-Based Vaccine Vectors. <i>PLoS Pathogens</i> , 2016, 12, e1006072.	2.1	55
47	Lysine Acetyltransferase PCAF Is a Key Regulator of Arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1902-1910.	1.1	53
48	Differential B7-1/CD28 Costimulatory Requirements for Stable and Inflationary Mouse Cytomegalovirus-Specific Memory CD8 T Cell Populations. <i>Journal of Immunology</i> , 2011, 186, 3874-3881.	0.4	52
49	Enhanced viral clearance in interleukin-18 gene-deficient mice after pulmonary infection with influenza A virus. <i>Immunology</i> , 2005, 114, 112-120.	2.0	48
50	The viral context instructs the redundancy of costimulatory pathways in driving CD8+ T cell expansion. <i>ELife</i> , 2015, 4, .	2.8	48
51	PD-L1 blockade engages tumor-infiltrating lymphocytes to co-express targetable activating and inhibitory receptors. , 2019, 7, 217.		47
52	Immunotherapy for persistent viral infections and associated disease. <i>Trends in Immunology</i> , 2011, 32, 97-103.	2.9	46
53	T Cell Factor 1 Represses CD8+ Effector T Cell Formation and Function. <i>Journal of Immunology</i> , 2014, 193, 5480-5487.	0.4	46
54	The Contribution of Cytomegalovirus Infection to Immune Senescence Is Set by the Infectious Dose. <i>Frontiers in Immunology</i> , 2018, 8, 1953.	2.2	46

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55	Cytomegalovirus infection exacerbates autoimmune mediated neuroinflammation. <i>Scientific Reports</i> , 2017, 7, 663.	1.6	45
56	Cytofast: A workflow for visual and quantitative analysis of flow and mass cytometry data to discover immune signatures and correlations. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 435-442.	1.9	45
57	A poly-neoantigen DNA vaccine synergizes with PD-1 blockade to induce T cell-mediated tumor control. <i>Oncolmmunology</i> , 2019, 8, 1652539.	2.1	45
58	Prospects of combinatorial synthetic peptide vaccine-based immunotherapy against cancer. <i>Seminars in Immunology</i> , 2013, 25, 182-190.	2.7	44
59	Protective CD8 T Cell Memory Is Impaired during Chronic CD70-Driven Costimulation. <i>Journal of Immunology</i> , 2009, 182, 5352-5362.	0.4	42
60	Nodular Inflammatory Foci Are Sites of T Cell Priming and Control of Murine Cytomegalovirus Infection in the Neonatal Lung. <i>PLoS Pathogens</i> , 2013, 9, e1003828.	2.1	40
61	Identification of a neo-epitope dominating endogenous CD8 T cell responses to MC-38 colorectal cancer. <i>Oncolmmunology</i> , 2020, 9, 1673125.	2.1	40
62	Flt3 permits survival during infection by rendering dendritic cells competent to activate NK cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9759-9764.	3.3	38
63	Cytomegalovirus- and Epstein-Barr Virus-Induced T-Cell Expansions in Young Children Do Not Impair Naive T-cell Populations or Vaccination Responses: The Generation R Study. <i>Journal of Infectious Diseases</i> , 2016, 213, 233-242.	1.9	38
64	Inhibition of 14q32 microRNA miR-495 reduces lesion formation, intimal hyperplasia and plasma cholesterol levels in experimental restenosis. <i>Atherosclerosis</i> , 2017, 261, 26-36.	0.4	37
65	CD4+ T Cell and NK Cell Interplay Key to Regression of MHC Class II Tumors upon TLR7/8 Agonist Therapy. <i>Cancer Immunology Research</i> , 2017, 5, 642-653.	1.6	37
66	Murine cytomegalovirus (CMV) infection via the intranasal route offers a robust model of immunity upon mucosal CMV infection. <i>Journal of General Virology</i> , 2016, 97, 185-195.	1.3	35
67	Targeting pancreatic cancer by TAK-981: a SUMOylation inhibitor that activates the immune system and blocks cancer cell cycle progression in a preclinical model. <i>Gut</i> , 2022, 71, 2266-2283.	6.1	35
68	The Quantity of Autocrine IL-2 Governs the Expansion Potential of CD8+ T Cells. <i>Journal of Immunology</i> , 2015, 195, 4792-4801.	0.4	34
69	Cytomegalovirus subverts macrophage identity. <i>Cell</i> , 2021, 184, 3774-3793.e25.	13.5	34
70	Cutting Edge: CD95 Maintains Effector T Cell Homeostasis in Chronic Immune Activation. <i>Journal of Immunology</i> , 2005, 174, 5915-5920.	0.4	33
71	Viral Persistence Induces Antibody Inflation without Altering Antibody Avidity. <i>Journal of Virology</i> , 2016, 90, 4402-4411.	1.5	33
72	A flexible MHC class I multimer loading system for large-scale detection of antigen-specific T cells. <i>Journal of Experimental Medicine</i> , 2018, 215, 1493-1504.	4.2	33

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73	Preferential Use of B7.2 and Not B7.1 in Priming of Vaccinia Virus-Specific CD8 T Cells. <i>Journal of Immunology</i> , 2009, 182, 2909-2918.	0.4	32
74	Rational Design of Vaccines. <i>Advances in Immunology</i> , 2012, 114, 217-243.	1.1	31
75	A third vaccination with a single T cell epitope confers protection in a murine model of SARS-CoV-2 infection. <i>Nature Communications</i> , 2022, 13, .	5.8	29
76	B7-Mediated Costimulation of CD4 T Cells Constrains Cytomegalovirus Persistence. <i>Journal of Virology</i> , 2011, 85, 390-396.	1.5	28
77	Histone methyltransferase DOT1L controls state-specific identity during B cell differentiation. <i>EMBO Reports</i> , 2021, 22, e51184.	2.0	27
78	Enhanced Cross-Presentation and Improved CD8+ T Cell Responses after Mannosylation of Synthetic Long Peptides in Mice. <i>PLoS ONE</i> , 2014, 9, e103755.	1.1	27
79	The importance of correctly timing cancer immunotherapy. <i>Expert Opinion on Biological Therapy</i> , 2017, 17, 87-103.	1.4	26
80	Demarcated thresholds of tumor-specific CD8 T cells elicited by MCMV-based vaccine vectors provide robust correlates of protection. , 2019, 7, 25.		25
81	Local immunomodulation for cancer therapy: Providing treatment where needed. <i>OncImmunology</i> , 2013, 2, e26493.	2.1	24
82	Peripheral and systemic antigens elicit an expandable pool of resident memory CD8 <sup>+</sup> T cells in the bone marrow. <i>European Journal of Immunology</i> , 2019, 49, 853-872.	1.6	24
83	Exhaustion and Inflation at Antipodes of T Cell Responses to Chronic Virus Infection. <i>Trends in Microbiology</i> , 2018, 26, 498-509.	3.5	22
84	CD70-Driven Costimulation Induces Survival or Fas-Mediated Apoptosis of T Cells Depending on Antigenic Load. <i>Journal of Immunology</i> , 2012, 188, 4256-4267.	0.4	21
85	Nab2 regulates secondary CD8+ T-cell responses through control of TRAIL expression. <i>Blood</i> , 2012, 119, 798-804.	0.6	21
86	Polyfunctional CD4+ T Cell Responses to Immunodominant Epitopes Correlate with Disease Activity of Virulent Salmonella. <i>PLoS ONE</i> , 2012, 7, e43481.	1.1	21
87	Enhanced CD8 T Cell Responses through GITR-Mediated Costimulation Resolve Chronic Viral Infection. <i>PLoS Pathogens</i> , 2015, 11, e1004675.	2.1	21
88	OX40 Stimulation Enhances Protective Immune Responses Induced After Vaccination With Attenuated Malaria Parasites. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 247.	1.8	21
89	Dissecting the Requirements for Maintenance of the CMV-Specific Memory T-Cell Pool. <i>Viral Immunology</i> , 2011, 24, 351-355.	0.6	19
90	The distinct role of T cell costimulation in antiviral immunity. <i>Current Opinion in Virology</i> , 2013, 3, 475-482.	2.6	19

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91	CD55 deposited on synovial collagen fibers protects from immune complex-mediated arthritis. <i>Arthritis Research and Therapy</i> , 2015, 17, 6.	1.6	19
92	Wnt Signaling as Master Regulator of T-Lymphocyte Responses. <i>Transplantation</i> , 2016, 100, 2584-2592.	0.5	19
93	Abatacept decreases disease activity in the absence of CD4+ T cells in a collagen-induced arthritis model. <i>Arthritis Research and Therapy</i> , 2015, 17, 220.	1.6	18
94	The Breadth of Synthetic Long Peptide Vaccine-Induced CD8+ T Cell Responses Determines the Efficacy against Mouse Cytomegalovirus Infection. <i>PLoS Pathogens</i> , 2016, 12, e1005895.	2.1	16
95	Lack of myeloid cell infiltration as an acquired resistance strategy to immunotherapy. , 2020, 8, e001326.		16
96	CD161 expression and regulation defines rapidly responding effector CD4+ T cells associated with improved survival in HPV16-associated tumors. , 2022, 10, e003995.		16
97	Human plasmacytoid dendritic cells acquire phagocytic capacity by TLR9 ligation in the presence of soluble factors produced by renal epithelial cells. <i>Kidney International</i> , 2018, 93, 355-364.	2.6	15
98	Cytomegalovirus infection and progressive differentiation of effector-memory T cells. <i>F1000Research</i> , 2018, 7, 1554.	0.8	15
99	IL-12 deficiency transiently improves viral clearance during the late phase of respiratory tract infection with influenza A virus in mice. <i>Antiviral Research</i> , 2006, 70, 75-84.	1.9	14
100	Interleukin-6-mediated resistance to immunotherapy is linked to impaired myeloid cell function. <i>International Journal of Cancer</i> , 2021, 148, 211-225.	2.3	13
101	New approaches in vaccine-based immunotherapy for human papillomavirus-induced cancer. <i>Current Opinion in Immunology</i> , 2015, 35, 9-14.	2.4	12
102	Adenoviral vaccines promote protective tissue-resident memory T cell populations against cancer. , 2020, 8, e001133.		12
103	Enforced OX40 Stimulation Empowers Booster Vaccines to Induce Effective CD4+ and CD8+ T Cell Responses against Mouse Cytomegalovirus Infection. <i>Frontiers in Immunology</i> , 2017, 8, 144.	2.2	11
104	IL-6 signaling in macrophages is required for immunotherapy-driven regression of tumors. , 2021, 9, e002460.		10
105	FcγRI expression on macrophages is required for antibody-mediated tumor protection by cytomegalovirus-based vaccines. <i>Oncotarget</i> , 2018, 9, 29392-29402.	0.8	10
106	Pyroptosis-inducing active caspase-1 as a genetic adjuvant in anti-cancer DNA vaccination. <i>Vaccine</i> , 2022, 40, 2087-2098.	1.7	10
107	Predicting the efficacy of cancer vaccines by evaluating T-cell responses. <i>OncolImmunology</i> , 2013, 2, e22616.	2.1	9
108	Functional Heterogeneity and Therapeutic Targeting of Tissue-Resident Memory T Cells. <i>Cells</i> , 2021, 10, 164.	1.8	9

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109	Host genetics and tumor environment determine the functional impact of neutrophils in mouse tumor models. , 2020, 8, e000877.		7
110	Memory CD8+ T cell heterogeneity is primarily driven by pathogen-specific cues and additionally shaped by the tissue environment. Science, 2021, 24, 101954.	1.9	7
111	Sustained Antibody Responses Depend on CD28 Function in Bone Marrow Resident Plasma Cells. Blood, 2011, 118, 182-182.	0.6	6
112	Impact of congenital cytomegalovirus infection on transcriptomes from archived dried blood spots in relation to long-term clinical outcome. PLoS ONE, 2018, 13, e0200652.	1.1	5
113	Visualization and Quantification of High-Dimensional Cytometry Data using Cytofast and the Upstream Clustering Methods FlowSOM and Cytosplore. Journal of Visualized Experiments, 2019, , .	0.2	4
114	P300/CBP Associated Factor (PCAF) Deficiency Enhances Diet-Induced Atherosclerosis in ApoE3*Leiden Mice via Systemic Inhibition of Regulatory T Cells. Frontiers in Cardiovascular Medicine, 2020, 7, 604821.	1.1	4
115	Dominant Antiviral CD8+ T Cell Responses Empower Prophylactic Antibody-Eliciting Vaccines Against Cytomegalovirus. Frontiers in Immunology, 2022, 13, 680559.	2.2	4
116	CD8+ T Cells Protect During Vein Graft Disease Development. Frontiers in Cardiovascular Medicine, 2019, 6, 77.	1.1	3
117	Modulation of T-Cell Mediated Immunity by Cytomegalovirus. , 2012, , 121-139.		3
118	mTORC1 signaling in antigen-presenting cells of the skin restrains CD8+ T cell priming. Cell Reports, 2022, 40, 111032.	2.9	3
119	“Reverse evolution” in T cell biology. Nature Immunology, 2020, 21, 360-362.	7.0	2
120	Genetic Screening for Novel Regulators of Immune Checkpoint Molecules. Trends in Immunology, 2020, 41, 692-705.	2.9	2
121	The curious case of IL-33 in homeostasis and infection. European Journal of Immunology, 2021, 51, 60-63.	1.6	1
122	Long Term Humoral Immunity Is Dependent on CD28 Expression In Plasma Cells. Blood, 2010, 116, 1737-1737.	0.6	0
123	First Evidence of Dysfunctional Antigen-Specific T Cell Responses in Experimental CLL As a Model for Studies of Autologous T Cell-Based Therapies. Blood, 2018, 132, 3694-3694.	0.6	0
124	Editorial: Immunity to Cytomegalovirus Infections: Challenges and Therapeutic Opportunities. Frontiers in Immunology, 2022, 13, 889690.	2.2	0