

Susan M Kaech

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131
papers

24,164
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67
h-index

140
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140
ext. papers

28,180
ext. citations

18.4
avg, IF

6.94
L-index

#	Paper	IF	Citations
131	Lineage relationship and protective immunity of memory CD8 T cell subsets. <i>Nature Immunology</i> , 2003 , 4, 225-34	19.1	1456
130	Selective expression of the interleukin 7 receptor identifies effector CD8 T cells that give rise to long-lived memory cells. <i>Nature Immunology</i> , 2003 , 4, 1191-8	19.1	1413
129	Molecular signature of CD8+ T cell exhaustion during chronic viral infection. <i>Immunity</i> , 2007 , 27, 670-84	32.3	1345
128	Effector and memory T-cell differentiation: implications for vaccine development. <i>Nature Reviews Immunology</i> , 2002 , 2, 251-62	36.5	1242
127	Inflammation directs memory precursor and short-lived effector CD8(+) T cell fates via the graded expression of T-bet transcription factor. <i>Immunity</i> , 2007 , 27, 281-95	32.3	1229
126	Memory CD8+ T cell differentiation: initial antigen encounter triggers a developmental program in naïve cells. <i>Nature Immunology</i> , 2001 , 2, 415-22	19.1	1027
125	Effector and memory CD8+ T cell fate coupled by T-bet and eomesodermin. <i>Nature Immunology</i> , 2005 , 6, 1236-44	19.1	880
124	Transcriptional control of effector and memory CD8+ T cell differentiation. <i>Nature Reviews Immunology</i> , 2012 , 12, 749-61	36.5	874
123	Mitochondrial DNA stress primes the antiviral innate immune response. <i>Nature</i> , 2015 , 520, 553-7	50.4	831
122	Molecular and functional profiling of memory CD8 T cell differentiation. <i>Cell</i> , 2002 , 111, 837-51	56.2	763
121	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. <i>Cell</i> , 2015 , 162, 1217-28	56.2	746
120	Metabolic Instruction of Immunity. <i>Cell</i> , 2017 , 169, 570-586	56.2	571
119	Estimating the precursor frequency of naive antigen-specific CD8 T cells. <i>Journal of Experimental Medicine</i> , 2002 , 195, 657-64	16.6	478
118	Heterologous immunity provides a potent barrier to transplantation tolerance. <i>Journal of Clinical Investigation</i> , 2003 , 111, 1887-1895	15.9	471
117	Transcriptional repressor Blimp-1 promotes CD8(+) T cell terminal differentiation and represses the acquisition of central memory T cell properties. <i>Immunity</i> , 2009 , 31, 296-308	32.3	422
116	Heterogeneity and cell-fate decisions in effector and memory CD8+ T cell differentiation during viral infection. <i>Immunity</i> , 2007 , 27, 393-405	32.3	422
115	Hepatic acetyl CoA links adipose tissue inflammation to hepatic insulin resistance and type 2 diabetes. <i>Cell</i> , 2015 , 160, 745-758	56.2	419

114	Antigen-independent memory CD8 T cells do not develop during chronic viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16004-9	11.5	402
113	The LIN-2/LIN-7/LIN-10 complex mediates basolateral membrane localization of the <i>C. elegans</i> EGF receptor LET-23 in vulval epithelial cells. <i>Cell</i> , 1998 , 94, 761-71	56.2	316
112	Therapeutic use of IL-2 to enhance antiviral T-cell responses in vivo. <i>Nature Medicine</i> , 2003 , 9, 540-7	50.5	310
111	Impaired HLA Class I Antigen Processing and Presentation as a Mechanism of Acquired Resistance to Immune Checkpoint Inhibitors in Lung Cancer. <i>Cancer Discovery</i> , 2017 , 7, 1420-1435	24.4	302
110	An interleukin-21-interleukin-10-STAT3 pathway is critical for functional maturation of memory CD8+ T cells. <i>Immunity</i> , 2011 , 35, 792-805	32.3	272
109	The multifaceted role of CD4(+) T cells in CD8(+) T cell memory. <i>Nature Reviews Immunology</i> , 2016 , 16, 102-11	36.5	244
108	LET-23 receptor localization by the cell junction protein LIN-7 during <i>C. elegans</i> vulval induction. <i>Cell</i> , 1996 , 85, 195-204	56.2	242
107	Natural killer cell activation enhances immune pathology and promotes chronic infection by limiting CD8+ T-cell immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1210-5	11.5	241
106	CD4+ T cell help guides formation of CD103+ lung-resident memory CD8+ T cells during influenza viral infection. <i>Immunity</i> , 2014 , 41, 633-45	32.3	240
105	The transcription factor FoxO1 sustains expression of the inhibitory receptor PD-1 and survival of antiviral CD8(+) T cells during chronic infection. <i>Immunity</i> , 2014 , 41, 802-14	32.3	218
104	Role of sustained antigen release from nanoparticle vaccines in shaping the T cell memory phenotype. <i>Biomaterials</i> , 2012 , 33, 4957-64	15.6	214
103	In vivo regulation of Bcl6 and T follicular helper cell development. <i>Journal of Immunology</i> , 2010 , 185, 313-26	5.3	214
102	Differential expression of Ly6C and T-bet distinguish effector and memory Th1 CD4(+) cell properties during viral infection. <i>Immunity</i> , 2011 , 35, 633-46	32.3	204
101	IL-7-Induced Glycerol Transport and TAG Synthesis Promotes Memory CD8+ T Cell Longevity. <i>Cell</i> , 2015 , 161, 750-61	56.2	197
100	Loss of CD127 expression defines an expansion of effector CD8+ T cells in HIV-infected individuals. <i>Journal of Immunology</i> , 2005 , 174, 2900-9	5.3	196
99	The microRNA miR-181 is a critical cellular metabolic rheostat essential for NKT cell ontogenesis and lymphocyte development and homeostasis. <i>Immunity</i> , 2013 , 38, 984-97	32.3	195
98	The Interleukin-2-mTORc1 Kinase Axis Defines the Signaling, Differentiation, and Metabolism of T Helper 1 and Follicular B Helper T Cells. <i>Immunity</i> , 2015 , 43, 690-702	32.3	186
97	Generation of effector CD8+ T cells and their conversion to memory T cells. <i>Immunological Reviews</i> , 2010 , 236, 151-66	11.3	186

96	Effector CD8 T cell development: a balancing act between memory cell potential and terminal differentiation. <i>Journal of Immunology</i> , 2008 , 180, 1309-15	5.3	167
95	Transcription factor STAT3 and type I interferons are corepressive insulators for differentiation of follicular helper and T helper 1 cells. <i>Immunity</i> , 2014 , 40, 367-77	32.3	162
94	Identification of an evolutionarily conserved heterotrimeric protein complex involved in protein targeting. <i>Journal of Biological Chemistry</i> , 1998 , 273, 31633-6	5.4	160
93	KLRG1 Effector CD8 T Cells Lose KLRG1, Differentiate into All Memory T Cell Lineages, and Convey Enhanced Protective Immunity. <i>Immunity</i> , 2018 , 48, 716-729.e8	32.3	158
92	The role of programming in memory T-cell development. <i>Current Opinion in Immunology</i> , 2004 , 16, 217-25.8	5.8	158
91	Expression of IL-7 receptor alpha is necessary but not sufficient for the formation of memory CD8 T cells during viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11730-5	11.5	154
90	Differential effects of STAT5 and PI3K/AKT signaling on effector and memory CD8 T-cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16601-6	11.5	150
89	Lung airway-surveilling CXCR3(hi) memory CD8(+) T cells are critical for protection against influenza A virus. <i>Immunity</i> , 2013 , 39, 939-48	32.3	147
88	The transcription factors ZEB2 and T-bet cooperate to program cytotoxic T cell terminal differentiation in response to LCMV viral infection. <i>Journal of Experimental Medicine</i> , 2015 , 212, 2041-56 ^{16.6}	16.6	134
87	Production of IL-10 by CD4(+) regulatory T cells during the resolution of infection promotes the maturation of memory CD8(+) T cells. <i>Nature Immunology</i> , 2015 , 16, 871-9	19.1	130
86	Requirement of B cells for generating CD4+ T cell memory. <i>Journal of Immunology</i> , 2009 , 182, 1868-76	5.3	125
85	Polycomb Repressive Complex 2-Mediated Chromatin Repression Guides Effector CD8 T Cell Terminal Differentiation and Loss of Multipotency. <i>Immunity</i> , 2017 , 46, 596-608	32.3	116
84	Models of CD8+ responses: 1. What is the antigen-independent proliferation program. <i>Journal of Theoretical Biology</i> , 2003 , 221, 585-98	2.3	116
83	Immunology. CD8 T cells remember with a little help. <i>Science</i> , 2003 , 300, 263-5	33.3	109
82	Proteomics of Melanoma Response to Immunotherapy Reveals Mitochondrial Dependence. <i>Cell</i> , 2019 , 179, 236-250.e18	56.2	107
81	Prostaglandin E2 and programmed cell death 1 signaling coordinately impair CTL function and survival during chronic viral infection. <i>Nature Medicine</i> , 2015 , 21, 327-34	50.5	101
80	A molecular threshold for effector CD8(+) T cell differentiation controlled by transcription factors Blimp-1 and T-bet. <i>Nature Immunology</i> , 2016 , 17, 422-32	19.1	98
79	A specific role for B cells in the generation of CD8 T cell memory by recombinant Listeria monocytogenes. <i>Journal of Immunology</i> , 2003 , 170, 1443-51	5.3	98

78	TCR signal transduction in antigen-specific memory CD8 T cells. <i>Journal of Immunology</i> , 2003 , 170, 5455-63	63	97
77	Interleukin-10 from CD4 follicular regulatory T cells promotes the germinal center response. <i>Science Immunology</i> , 2017 , 2,	28	95
76	TLR9-targeted biodegradable nanoparticles as immunization vectors protect against West Nile encephalitis. <i>Journal of Immunology</i> , 2010 , 185, 2989-97	5-3	95
75	Effects of Signal 3 during CD8 T cell priming: Bystander production of IL-12 enhances effector T cell expansion but promotes terminal differentiation. <i>Vaccine</i> , 2009 , 27, 2177-87	4-1	93
74	Immune-based antitumor effects of BRAF inhibitors rely on signaling by CD40L and IFN- γ . <i>Cancer Research</i> , 2014 , 74, 3205-17	10-1	84
73	A central role for Notch in effector CD8(+) T cell differentiation. <i>Nature Immunology</i> , 2014 , 15, 1143-51	19-1	82
72	Differential localization of effector and memory CD8 T cell subsets in lymphoid organs during acute viral infection. <i>Journal of Immunology</i> , 2010 , 185, 5315-25	5-3	79
71	Epigenetic modifications induced by Blimp-1 Regulate CD8+ T cell memory progression during acute virus infection. <i>Immunity</i> , 2013 , 39, 661-75	32-3	78
70	Myeloid-targeted immunotherapies act in synergy to induce inflammation and antitumor immunity. <i>Journal of Experimental Medicine</i> , 2018 , 215, 877-893	16-6	77
69	Generating diversity: transcriptional regulation of effector and memory CD8 T-cell differentiation. <i>Immunological Reviews</i> , 2010 , 235, 219-33	11-3	74
68	The interface between transcriptional and epigenetic control of effector and memory CD8+ T-cell differentiation. <i>Immunological Reviews</i> , 2014 , 261, 157-68	11-3	71
67	BCL6b mediates the enhanced magnitude of the secondary response of memory CD8+ T lymphocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7418-25	11-5	71
66	Increased numbers of preexisting memory CD8 T cells and decreased T-bet expression can restrain terminal differentiation of secondary effector and memory CD8 T cells. <i>Journal of Immunology</i> , 2011 , 187, 4068-76	5-3	68
65	Formation of IL-7Ralphahigh and IL-7Ralphalow CD8 T cells during infection is regulated by the opposing functions of GABPalpha and Gfi-1. <i>Journal of Immunology</i> , 2008 , 180, 5309-19	5-3	68
64	STAT4 and T-bet control follicular helper T cell development in viral infections. <i>Journal of Experimental Medicine</i> , 2018 , 215, 337-355	16-6	67
63	Convergence of multiple signaling pathways is required to coordinately up-regulate mtDNA and mitochondrial biogenesis during T cell activation. <i>Mitochondrion</i> , 2007 , 7, 374-85	4-9	66
62	Differential Roles of IL-2 Signaling in Developing versus Mature Tregs. <i>Cell Reports</i> , 2018 , 25, 1204-1213	14-6	63
61	Chronic viral infection promotes sustained Th1-derived immunoregulatory IL-10 via BLIMP-1. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3455-68	15-9	62

60	MyD88 plays a critical T cell-intrinsic role in supporting CD8 T cell expansion during acute lymphocytic choriomeningitis virus infection. <i>Journal of Immunology</i> , 2008 , 181, 3804-10	5.3	61
59	Identification of an evolutionarily conserved transcriptional signature of CD8 memory differentiation that is shared by T and B cells. <i>Journal of Immunology</i> , 2008 , 181, 1859-68	5.3	60
58	Reducing mitochondrial ROS improves disease-related pathology in a mouse model of ataxia-telangiectasia. <i>Molecular Therapy</i> , 2013 , 21, 42-8	11.7	59
57	ZEB1, ZEB2, and the miR-200 family form a counterregulatory network to regulate CD8 T cell fates. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1153-1168	16.6	56
56	Diversity in CD8(+) T cell differentiation. <i>Current Opinion in Immunology</i> , 2009 , 21, 291-7	7.8	55
55	ABC transporters and NR4A1 identify a quiescent subset of tissue-resident memory T cells. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3905-3916	15.9	52
54	The selective increase in caspase-3 expression in effector but not memory T cells allows susceptibility to apoptosis. <i>Journal of Immunology</i> , 2004 , 173, 5425-33	5.3	50
53	Induction of telomerase activity and maintenance of telomere length in virus-specific effector and memory CD8+ T cells. <i>Journal of Immunology</i> , 2003 , 170, 147-52	5.3	48
52	Uptake of oxidized lipids by the scavenger receptor CD36 promotes lipid peroxidation and dysfunction in CD8 T cells in tumors. <i>Immunity</i> , 2021 , 54, 1561-1577.e7	32.3	47
51	TLR4 ligands lipopolysaccharide and monophosphoryl lipid A differentially regulate effector and memory CD8+ T Cell differentiation. <i>Journal of Immunology</i> , 2014 , 192, 4221-32	5.3	44
50	Aging-dependent alterations in gene expression and a mitochondrial signature of responsiveness to human influenza vaccination. <i>Aging</i> , 2015 , 7, 38-52	5.6	44
49	Metformin exerts antitumor activity via induction of multiple death pathways in tumor cells and activation of a protective immune response. <i>Oncotarget</i> , 2018 , 9, 25808-25825	3.3	43
48	Smad4 promotes differentiation of effector and circulating memory CD8 T cells but is dispensable for tissue-resident memory CD8 T cells. <i>Journal of Immunology</i> , 2015 , 194, 2407-14	5.3	41
47	Tissue-resident memory T cell reactivation by diverse antigen-presenting cells imparts distinct functional responses. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	41
46	Viperin is highly induced in neutrophils and macrophages during acute and chronic lymphocytic choriomeningitis virus infection. <i>Journal of Immunology</i> , 2010 , 184, 5723-31	5.3	40
45	The transforming growth factor beta signaling pathway is critical for the formation of CD4 T follicular helper cells and isotype-switched antibody responses in the lung mucosa. <i>ELife</i> , 2015 , 4, e04851	8.9	39
44	Intrinsic and extrinsic control of effector T cell survival and memory T cell development. <i>Immunologic Research</i> , 2009 , 45, 46-61	4.3	38
43	CD4+ and CD8+ T cell-dependent antiviral immunity requires STIM1 and STIM2. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4549-63	15.9	37

42	Mitochondrial DNA Stress Signalling Protects the Nuclear Genome. <i>Nature Metabolism</i> , 2019 , 1, 1209-1218	18.6	34
41	JNK1 is essential for CD8+ T cell-mediated tumor immune surveillance. <i>Journal of Immunology</i> , 2005 , 175, 5783-9	5.3	32
40	Reenergizing T cell anti-tumor immunity by harnessing immunometabolic checkpoints and machineries. <i>Current Opinion in Immunology</i> , 2017 , 46, 38-44	7.8	31
39	T-cell TGF- β signaling abrogation restricts medulloblastoma progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3458-66	11.5	31
38	Tick-TOX, it's time for T cell exhaustion. <i>Nature Immunology</i> , 2019 , 20, 1092-1094	19.1	29
37	CCR7 expression alters memory CD8 T-cell homeostasis by regulating occupancy in IL-7- and IL-15-dependent niches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8278-83	11.5	28
36	A functional subset of CD8 T cells during chronic exhaustion is defined by SIRP α expression. <i>Nature Communications</i> , 2019 , 10, 794	17.4	28
35	Drug Sensitivity and Allele Specificity of First-Line Osimertinib Resistance Mutations. <i>Cancer Research</i> , 2020 , 80, 2017-2030	10.1	27
34	Cutting edge: memory CD8 T cell maturation occurs independently of CD8 α CD8 β . <i>Journal of Immunology</i> , 2005 , 175, 5619-23	5.3	26
33	Enhanced expression of cell cycle regulatory genes in virus-specific memory CD8+ T cells. <i>Journal of Virology</i> , 2004 , 78, 10953-9	6.6	25
32	IL-2 in the tumor microenvironment is necessary for Wiskott-Aldrich syndrome protein deficient NK cells to respond to tumors in vivo. <i>Scientific Reports</i> , 2016 , 6, 30636	4.9	20
31	IL-10 induces a STAT3-dependent autoregulatory loop in T2 cells that promotes Blimp-1 restriction of cell expansion via antagonism of STAT5 target genes. <i>Science Immunology</i> , 2016 , 1,	28	19
30	NK Cell Responses Redefine Immunological Memory. <i>Journal of Immunology</i> , 2016 , 197, 2963-2970	5.3	19
29	IL-7 plays a critical role for the homeostasis of allergen-specific memory CD4 T cells in the lung and airways. <i>Scientific Reports</i> , 2017 , 7, 11155	4.9	18
28	Characterization of Diabetogenic CD8+ T Cells: IMMUNE THERAPY WITH METABOLIC BLOCKADE. <i>Journal of Biological Chemistry</i> , 2016 , 291, 11230-40	5.4	17
27	Prdm1 Regulates Thymic Epithelial Function To Prevent Autoimmunity. <i>Journal of Immunology</i> , 2017 , 199, 1250-1260	5.3	15
26	Probing the Diversity of T Cell Dysfunction in Cancer. <i>Cell</i> , 2016 , 166, 1362-1364	56.2	14
25	Reinvigorating NIH Grant Peer Review. <i>Immunity</i> , 2020 , 52, 1-3	32.3	13

24	Active mTORC2 Signaling in Naive T Cells Suppresses Bone Marrow Homing by Inhibiting CXCR4 Expression. <i>Journal of Immunology</i> , 2018 , 201, 908-915	5.3	12
23	IL-4 induces a suppressive IL-10-producing CD8+ T cell population via a Cdkn2a-dependent mechanism. <i>Journal of Leukocyte Biology</i> , 2013 , 94, 1103-12	6.5	12
22	Transient expression of ZBTB32 in anti-viral CD8+ T cells limits the magnitude of the effector response and the generation of memory. <i>PLoS Pathogens</i> , 2017 , 13, e1006544	7.6	11
21	Aberrant CD8+ T-cell responses and memory differentiation upon viral infection of an ataxia-telangiectasia mouse model driven by hyper-activated Akt and mTORC1 signaling. <i>American Journal of Pathology</i> , 2011 , 178, 2740-51	5.8	10
20	A Phase I Study of APX005M and Cabiralizumab with or without Nivolumab in Patients with Melanoma, Kidney Cancer, or Non-Small Cell Lung Cancer Resistant to Anti-PD-1/PD-L1. <i>Clinical Cancer Research</i> , 2021 , 27, 4757-4767	12.9	9
19	IL-7 knocks the socs off chronic viral infection. <i>Cell</i> , 2011 , 144, 467-8	56.2	6
18	The landscape of novel and complementary targets for immunotherapy: an analysis of gene expression in the tumor microenvironment. <i>Oncotarget</i> , 2019 , 10, 4532-4545	3.3	6
17	The architectural design of CD8+ T cell responses in acute and chronic infection: Parallel structures with divergent fates. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	6
16	Metabolic regulation of T cells in the tumor microenvironment by nutrient availability and diet. <i>Seminars in Immunology</i> , 2021 , 52, 101485	10.7	6
15	Trials and Tribble-ations of tissue T cells. <i>Nature Immunology</i> , 2018 , 19, 102-103	19.1	5
14	Celebrating diversity in memory T cells. <i>Journal of Immunology</i> , 2014 , 192, 837-9	5.3	5
13	BRAF-targeted therapy alters the functions of intratumoral CD4 T cells to inhibit melanoma progression. <i>Onc Immunology</i> , 2014 , 3, e29126	7.2	4
12	T Cell Metabolism in a State of Flux. <i>Immunity</i> , 2019 , 51, 783-785	32.3	4
11	Seasonal Variability and Shared Molecular Signatures of Inactivated Influenza Vaccination in Young and Older Adults. <i>Journal of Immunology</i> , 2020 , 204, 1661-1673	5.3	4
10	ZEB1 promotes pathogenic Th1 and Th17 cell differentiation in multiple sclerosis. <i>Cell Reports</i> , 2021 , 36, 109602	10.6	3
9	Final results of a phase I prospective trial evaluating the combination of stereotactic body radiotherapy (SBRT) with concurrent pembrolizumab in patients with metastatic non-small cell lung cancer (NSCLC) or melanoma.. <i>Journal of Clinical Oncology</i> , 2018 , 36, 9099-9099	2.2	2
8	Oxidized Lipids and CD36-Mediated Lipid Peroxidation in CD8 T Cells Suppress Anti-Tumor Immune Responses		2
7	Regulating the diverse outcomes of interferon γ interference. <i>Trends in Immunology</i> , 2014 , 35, 353-4	14.4	1

- 6 Generating CD8 T cell heterogeneity: attack of the clones. *Immunity*, **2013**, 39, 203-5 32.3 1
- 5 T-bet in Tfh cells: Now you see me, now you don't. *Journal of Experimental Medicine*, **2018**, 215, 2697-2698.6 1
- 4 Elevated murine HB-EGF confers sensitivity to diphtheria toxin in EGFR-mutant lung adenocarcinoma. *DMM Disease Models and Mechanisms*, **2021**, 14, 4.1 1
- 3 1-deoxysphingolipids bind to COUP-TF to modulate lymphatic and cardiac cell development. *Developmental Cell*, **2021**, 56, 3128-3145.e15 10.2 0
- 2 Like parent, like child: inheritance of effector CD8+ T cell traits. *Immunity*, **2010**, 33, 296-8 32.3
- 1 The transcription factors ZEB2 and T-bet cooperate to program cytotoxic T cell terminal differentiation in response to LCMV viral infection. *Journal of Cell Biology*, **2015**, 211, 2113OIA258 7.3