Susan M Kaech

List of Publications by Year in Descending Order

131 papers	24,164 citations	67 h-index	140 g-index
140 ext. papers	28,180 ext. citations	18.4 avg, IF	6.94 L-index

#	Paper	IF	Citations
131	The architectural design of CD8+ T cell responses in acute and chronic infection: Parallel structures with divergent fates. *Journal of Experimental Medicine*, **2021**, 218,	16.6	6
130	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. *Clinical Cancer Research*, **2021**, 27, 4757-4767	12.9	9
129	Uptake of oxidized lipids by the scavenger receptor CD36 promotes lipid peroxidation and dysfunction in CD8 T cells in tumors. *Immunity*, **2021**, 54, 1561-1577.e7	32.3	47
128	Metabolic regulation of T cells in the tumor microenvironment by nutrient availability and diet. *Seminars in Immunology*, **2021**, 52, 101485	10.7	6
127	ZEB1 promotes pathogenic Th1 and Th17 cell differentiation in multiple sclerosis. *Cell Reports*, **2021**, 36, 109602	10.6	3
126	Elevated murine HB-EGF confers sensitivity to diphtheria toxin in EGFR-mutant lung adenocarcinoma. *DMM Disease Models and Mechanisms*, **2021**, 14,	4.1	1
125	1-deoxysphingolipids bind to COUP-TF to modulate lymphatic and cardiac cell development. *Developmental Cell*, **2021**, 56, 3128-3145.e15	10.2	0
124	Reinvigorating NIH Grant Peer Review. *Immunity*, **2020**, 52, 1-3	32.3	13
123	Tissue-resident memory T cell reactivation by diverse antigen-presenting cells imparts distinct functional responses. *Journal of Experimental Medicine*, **2020**, 217,	16.6	41
122	Drug Sensitivity and Allele Specificity of First-Line Osimertinib Resistance Mutations. *Cancer Research*, **2020**, 80, 2017-2030	10.1	27
121	Seasonal Variability and Shared Molecular Signatures of Inactivated Influenza Vaccination in Young and Older Adults. *Journal of Immunology*, **2020**, 204, 1661-1673	5.3	4
120	Proteomics of Melanoma Response to Immunotherapy Reveals Mitochondrial Dependence. *Cell*, **2019**, 179, 236-250.e18	56.2	107
119	Tick-TOX, it's time for T cell exhaustion. *Nature Immunology*, **2019**, 20, 1092-1094	19.1	29
118	The landscape of novel and complementary targets for immunotherapy: an analysis of gene expression in the tumor microenvironment. *Oncotarget*, **2019**, 10, 4532-4545	3.3	6
117	A functional subset of CD8 T cells during chronic exhaustion is defined by SIRPα expression. *Nature Communications*, **2019**, 10, 794	17.4	28
116	T Cell Metabolism in a State of Flux. *Immunity*, **2019**, 51, 783-785	32.3	4
115	Mitochondrial DNA Stress Signalling Protects the Nuclear Genome. *Nature Metabolism*, **2019**, 1, 1209-1218	14.6	34

114	KLRG1 Effector CD8 T Cells Lose KLRG1, Differentiate into All Memory T Cell Lineages, and Convey Enhanced Protective Immunity. *Immunity*, **2018**, 48, 716-729.e8	32.3	158
113	ZEB1, ZEB2, and the miR-200 family form a counterregulatory network to regulate CD8 T cell fates. *Journal of Experimental Medicine*, **2018**, 215, 1153-1168	16.6	56
112	Myeloid-targeted immunotherapies act in synergy to induce inflammation and antitumor immunity. *Journal of Experimental Medicine*, **2018**, 215, 877-893	16.6	77
111	Trials and Tribble-ations of tissue T cells. *Nature Immunology*, **2018**, 19, 102-103	19.1	5
110	Active mTORC2 Signaling in Naive T Cells Suppresses Bone Marrow Homing by Inhibiting CXCR4 Expression. *Journal of Immunology*, **2018**, 201, 908-915	5.3	12
109	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.. *Journal of Clinical Oncology*, **2018**, 36, 9099-9099	2.2	2
108	STAT4 and T-bet control follicular helper T cell development in viral infections. *Journal of Experimental Medicine*, **2018**, 215, 337-355	16.6	67
107	Metformin exerts antitumor activity via induction of multiple death pathways in tumor cells and activation of a protective immune response. *Oncotarget*, **2018**, 9, 25808-25825	3.3	43
106	T-bet in Tfh cells: Now you see me, now you don't. *Journal of Experimental Medicine*, **2018**, 215, 2697-2698	16.6	1
105	Differential Roles of IL-2 Signaling in Developing versus Mature Tregs. *Cell Reports*, **2018**, 25, 1204-1213.e4	8.46	63
104	Polycomb Repressive Complex 2-Mediated Chromatin Repression Guides Effector CD8 T Cell Terminal Differentiation and Loss of Multipotency. *Immunity*, **2017**, 46, 596-608	32.3	116
103	Reenergizing T cell anti-tumor immunity by harnessing immunometabolic checkpoints and machineries. *Current Opinion in Immunology*, **2017**, 46, 38-44	7.8	31
102	Metabolic Instruction of Immunity. *Cell*, **2017**, 169, 570-586	56.2	571
101	Impaired HLA Class I Antigen Processing and Presentation as a Mechanism of Acquired Resistance to Immune Checkpoint Inhibitors in Lung Cancer. *Cancer Discovery*, **2017**, 7, 1420-1435	24.4	302
100	Interleukin-10 from CD4 follicular regulatory T cells promotes the germinal center response. *Science Immunology*, **2017**, 2,	28	95
99	Transient expression of ZBTB32 in anti-viral CD8+ T cells limits the magnitude of the effector response and the generation of memory. *PLoS Pathogens*, **2017**, 13, e1006544	7.6	11
98	IL-7 plays a critical role for the homeostasis of allergen-specific memory CD4 T cells in the lung and airways. *Scientific Reports*, **2017**, 7, 11155	4.9	18
97	Prdm1 Regulates Thymic Epithelial Function To Prevent Autoimmunity. *Journal of Immunology*, **2017**, 199, 1250-1260	5.3	15

96	IL-2 in the tumor microenvironment is necessary for Wiskott-Aldrich syndrome protein deficient NK cells to respond to tumors in vivo. *Scientific Reports*, **2016**, 6, 30636	4.9	20
95	The multifaceted role of CD4(+) T cells in CD8(+) T cell memory. *Nature Reviews Immunology*, **2016**, 16, 102-11	36.5	244
94	A molecular threshold for effector CD8(+) T cell differentiation controlled by transcription factors Blimp-1 and T-bet. *Nature Immunology*, **2016**, 17, 422-32	19.1	98
93	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. *Science Immunology*, **2016**, 1,	28	19
92	ABC transporters and NR4A1 identify a quiescent subset of tissue-resident memory T cells. *Journal of Clinical Investigation*, **2016**, 126, 3905-3916	15.9	52
91	CCR7 expression alters memory CD8 T-cell homeostasis by regulating occupancy in IL-7- and IL-15-dependent niches. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8278-83	11.5	28
90	Characterization of Diabetogenic CD8+ T Cells: IMMUNE THERAPY WITH METABOLIC BLOCKADE. *Journal of Biological Chemistry*, **2016**, 291, 11230-40	5.4	17
89	Probing the Diversity of T Cell Dysfunction in Cancer. *Cell*, **2016**, 166, 1362-1364	56.2	14
88	NK Cell Responses Redefine Immunological Memory. *Journal of Immunology*, **2016**, 197, 2963-2970	5.3	19
87	Smad4 promotes differentiation of effector and circulating memory CD8 T cells but is dispensable for tissue-resident memory CD8 T cells. *Journal of Immunology*, **2015**, 194, 2407-14	5.3	41
86	Production of IL-10 by CD4(+) regulatory T cells during the resolution of infection promotes the maturation of memory CD8(+) T cells. *Nature Immunology*, **2015**, 16, 871-9	19.1	130
85	Prostaglandin E2 and programmed cell death 1 signaling coordinately impair CTL function and survival during chronic viral infection. *Nature Medicine*, **2015**, 21, 327-34	50.5	101
84	IL-7-Induced Glycerol Transport and TAG Synthesis Promotes Memory CD8+ T Cell Longevity. *Cell*, **2015**, 161, 750-61	56.2	197
83	The Interleukin-2-mTORc1 Kinase Axis Defines the Signaling, Differentiation, and Metabolism of T Helper 1 and Follicular B Helper T Cells. *Immunity*, **2015**, 43, 690-702	32.3	186
82	The transcription factors ZEB2 and T-bet cooperate to program cytotoxic T cell terminal differentiation in response to LCMV viral infection. *Journal of Experimental Medicine*, **2015**, 212, 2041-56	16.6	134
81	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. *Cell*, **2015**, 162, 1217-28	56.2	746
80	Hepatic acetyl CoA links adipose tissue inflammation to hepatic insulin resistance and type 2 diabetes. *Cell*, **2015**, 160, 745-758	56.2	419
79	Mitochondrial DNA stress primes the antiviral innate immune response. *Nature*, **2015**, 520, 553-7	50.4	831

78	Aging-dependent alterations in gene expression and a mitochondrial signature of responsiveness to human influenza vaccination. *Aging*, **2015**, 7, 38-52	5.6	44
77	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. *ELife*, **2015**, 4, e04851	8.9	39
76	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	
75	TLR4 ligands lipopolysaccharide and monophosphoryl lipid a differentially regulate effector and memory CD8+ T Cell differentiation. *Journal of Immunology*, **2014**, 192, 4221-32	5.3	44
74	Transcription factor STAT3 and type I interferons are corepressive insulators for differentiation of follicular helper and T helper 1 cells. *Immunity*, **2014**, 40, 367-77	32.3	162
73	A central role for Notch in effector CD8(+) T cell differentiation. *Nature Immunology*, **2014**, 15, 1143-51	19.1	82
72	Regulating the diverse outcomes of interferon's interference. *Trends in Immunology*, **2014**, 35, 353-4	14.4	1
71	The interface between transcriptional and epigenetic control of effector and memory CD8+ T-cell differentiation. *Immunological Reviews*, **2014**, 261, 157-68	11.3	71
70	Celebrating diversity in memory T cells. *Journal of Immunology*, **2014**, 192, 837-9	5.3	5
69	Immune-based antitumor effects of BRAF inhibitors rely on signaling by CD40L and IFN. *Cancer Research*, **2014**, 74, 3205-17	10.1	84
68	CD4+ T cell help guides formation of CD103+ lung-resident memory CD8+ T cells during influenza viral infection. *Immunity*, **2014**, 41, 633-45	32.3	240
67	The transcription factor FoxO1 sustains expression of the inhibitory receptor PD-1 and survival of antiviral CD8(+) T cells during chronic infection. *Immunity*, **2014**, 41, 802-14	32.3	218
66	T-cell TGF- signaling abrogation restricts medulloblastoma progression. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3458-66	11.5	31
65	BRAF-targeted therapy alters the functions of intratumoral CD4 T cells to inhibit melanoma progression. *OncoImmunology*, **2014**, 3, e29126	7.2	4
64	Chronic viral infection promotes sustained Th1-derived immunoregulatory IL-10 via BLIMP-1. *Journal of Clinical Investigation*, **2014**, 124, 3455-68	15.9	62
63	CD4+ and CD8+ T cell-dependent antiviral immunity requires STIM1 and STIM2. *Journal of Clinical Investigation*, **2014**, 124, 4549-63	15.9	37
62	IL-4 induces a suppressive IL-10-producing CD8+ T cell population via a Cdkn2a-dependent mechanism. *Journal of Leukocyte Biology*, **2013**, 94, 1103-12	6.5	12
61	Generating CD8 T cell heterogeneity: attack of the clones. *Immunity*, **2013**, 39, 203-5	32.3	1

60	Epigenetic modifications induced by Blimp-1 Regulate CD8+ T cell memory progression during acute virus infection. *Immunity*, **2013**, 39, 661-75	32.3	78
59	Lung airway-surveilling CXCR3(hi) memory CD8(+) T cells are critical for protection against influenza A virus. *Immunity*, **2013**, 39, 939-48	32.3	147
58	Reducing mitochondrial ROS improves disease-related pathology in a mouse model of ataxia-telangiectasia. *Molecular Therapy*, **2013**, 21, 42-8	11.7	59
57	The microRNA miR-181 is a critical cellular metabolic rheostat essential for NKT cell ontogenesis and lymphocyte development and homeostasis. *Immunity*, **2013**, 38, 984-97	32.3	195
56	Role of sustained antigen release from nanoparticle vaccines in shaping the T cell memory phenotype. *Biomaterials*, **2012**, 33, 4957-64	15.6	214
55	Transcriptional control of effector and memory CD8+ T cell differentiation. *Nature Reviews Immunology*, **2012**, 12, 749-61	36.5	874
54	Natural killer cell activation enhances immune pathology and promotes chronic infection by limiting CD8+ T-cell immunity. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1210-5	11.5	241
53	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. *American Journal of Pathology*, **2011**, 178, 2740-51	5.8	10
52	IL-7 knocks the socs off chronic viral infection. *Cell*, **2011**, 144, 467-8	56.2	6
51	Differential expression of Ly6C and T-bet distinguish effector and memory Th1 CD4(+) cell properties during viral infection. *Immunity*, **2011**, 35, 633-46	32.3	204
50	An interleukin-21-interleukin-10-STAT3 pathway is critical for functional maturation of memory CD8+ T cells. *Immunity*, **2011**, 35, 792-805	32.3	272
49	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. *Journal of Immunology*, **2011**, 187, 4068-76	5.3	68
48	Generation of effector CD8+ T cells and their conversion to memory T cells. *Immunological Reviews*, **2010**, 236, 151-66	11.3	186
47	Generating diversity: transcriptional regulation of effector and memory CD8 T-cell differentiation. *Immunological Reviews*, **2010**, 235, 219-33	11.3	74
46	Differential localization of effector and memory CD8 T cell subsets in lymphoid organs during acute viral infection. *Journal of Immunology*, **2010**, 185, 5315-25	5.3	79
45	Differential effects of STAT5 and PI3K/AKT signaling on effector and memory CD8 T-cell survival. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16601-6	11.5	150
44	Viperin is highly induced in neutrophils and macrophages during acute and chronic lymphocytic choriomeningitis virus infection. *Journal of Immunology*, **2010**, 184, 5723-31	5.3	40
43	TLR9-targeted biodegradable nanoparticles as immunization vectors protect against West Nile encephalitis. *Journal of Immunology*, **2010**, 185, 2989-97	5.3	95

42	In vivo regulation of Bcl6 and T follicular helper cell development. *Journal of Immunology*, **2010**, 185, 313-26	5.3	214
41	Like parent, like child: inheritance of effector CD8+ T cell traits. *Immunity*, **2010**, 33, 296-8	32.3	
40	Requirement of B cells for generating CD4+ T cell memory. *Journal of Immunology*, **2009**, 182, 1868-76	5.3	125
39	Intrinsic and extrinsic control of effector T cell survival and memory T cell development. *Immunologic Research*, **2009**, 45, 46-61	4.3	38
38	Diversity in CD8(+) T cell differentiation. *Current Opinion in Immunology*, **2009**, 21, 291-7	7.8	55
37	Transcriptional repressor Blimp-1 promotes CD8(+) T cell terminal differentiation and represses the acquisition of central memory T cell properties. *Immunity*, **2009**, 31, 296-308	32.3	422
36	Effects of Signal 3 during CD8 T cell priming: Bystander production of IL-12 enhances effector T cell expansion but promotes terminal differentiation. *Vaccine*, **2009**, 27, 2177-87	4.1	93
35	MyD88 plays a critical T cell-intrinsic role in supporting CD8 T cell expansion during acute lymphocytic choriomeningitis virus infection. *Journal of Immunology*, **2008**, 181, 3804-10	5.3	61
34	Formation of IL-7Ralphahigh and IL-7Ralphalow CD8 T cells during infection is regulated by the opposing functions of GABPalpha and Gfi-1. *Journal of Immunology*, **2008**, 180, 5309-19	5.3	68
33	Effector CD8 T cell development: a balancing act between memory cell potential and terminal differentiation. *Journal of Immunology*, **2008**, 180, 1309-15	5.3	167
32	Identification of an evolutionarily conserved transcriptional signature of CD8 memory differentiation that is shared by T and B cells. *Journal of Immunology*, **2008**, 181, 1859-68	5.3	60
31	Expression of IL-7 receptor alpha is necessary but not sufficient for the formation of memory CD8 T cells during viral infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11730-5	11.5	154
30	Inflammation directs memory precursor and short-lived effector CD8(+) T cell fates via the graded expression of T-bet transcription factor. *Immunity*, **2007**, 27, 281-95	32.3	1229
29	Heterogeneity and cell-fate decisions in effector and memory CD8+ T cell differentiation during viral infection. *Immunity*, **2007**, 27, 393-405	32.3	422
28	Molecular signature of CD8+ T cell exhaustion during chronic viral infection. *Immunity*, **2007**, 27, 670-84	32.3	1345
27	Convergence of multiple signaling pathways is required to coordinately up-regulate mtDNA and mitochondrial biogenesis during T cell activation. *Mitochondrion*, **2007**, 7, 374-85	4.9	66
26	Effector and memory CD8+ T cell fate coupled by T-bet and eomesodermin. *Nature Immunology*, **2005**, 6, 1236-44	19.1	880
25	Cutting edge: memory CD8 T cell maturation occurs independently of CD8alphaalpha. *Journal of Immunology*, **2005**, 175, 5619-23	5.3	26

24	Loss of CD127 expression defines an expansion of effector CD8+ T cells in HIV-infected individuals. *Journal of Immunology*, **2005**, 174, 2900-9	5.3	196
23	JNK1 is essential for CD8+ T cell-mediated tumor immune surveillance. *Journal of Immunology*, **2005**, 175, 5783-9	5.3	32
22	BCL6b mediates the enhanced magnitude of the secondary response of memory CD8+ T lymphocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 7418-25	11.5	71
21	Enhanced expression of cell cycle regulatory genes in virus-specific memory CD8+ T cells. *Journal of Virology*, **2004**, 78, 10953-9	6.6	25
20	The selective increase in caspase-3 expression in effector but not memory T cells allows susceptibility to apoptosis. *Journal of Immunology*, **2004**, 173, 5425-33	5.3	50
19	Antigen-independent memory CD8 T cells do not develop during chronic viral infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 16004-9	11.5	402
18	The role of programming in memory T-cell development. *Current Opinion in Immunology*, **2004**, 16, 217-25	7.8	158
17	Induction of telomerase activity and maintenance of telomere length in virus-specific effector and memory CD8+ T cells. *Journal of Immunology*, **2003**, 170, 147-52	5.3	48
16	Models of CD8+ responses: 1. What is the antigen-independent proliferation program. *Journal of Theoretical Biology*, **2003**, 221, 585-98	2.3	116
15	Selective expression of the interleukin 7 receptor identifies effector CD8 T cells that give rise to long-lived memory cells. *Nature Immunology*, **2003**, 4, 1191-8	19.1	1413
14	Lineage relationship and protective immunity of memory CD8 T cell subsets. *Nature Immunology*, **2003**, 4, 225-34	19.1	1456
13	Therapeutic use of IL-2 to enhance antiviral T-cell responses in vivo. *Nature Medicine*, **2003**, 9, 540-7	50.5	310
12	A specific role for B cells in the generation of CD8 T cell memory by recombinant Listeria monocytogenes. *Journal of Immunology*, **2003**, 170, 1443-51	5.3	98
11	TCR signal transduction in antigen-specific memory CD8 T cells. *Journal of Immunology*, **2003**, 170, 5455-63	5.3	97
10	Immunology. CD8 T cells remember with a little help. *Science*, **2003**, 300, 263-5	33.3	109
9	Heterologous immunity provides a potent barrier to transplantation tolerance. *Journal of Clinical Investigation*, **2003**, 111, 1887-1895	15.9	471
8	Effector and memory T-cell differentiation: implications for vaccine development. *Nature Reviews Immunology*, **2002**, 2, 251-62	36.5	1242
7	Estimating the precursor frequency of naive antigen-specific CD8 T cells. *Journal of Experimental Medicine*, **2002**, 195, 657-64	16.6	478

6	Molecular and functional profiling of memory CD8 T cell differentiation. *Cell*, **2002**, 111, 837-51	56.2	763
5	Memory CD8+ T cell differentiation: initial antigen encounter triggers a developmental program in naïve cells. *Nature Immunology*, **2001**, 2, 415-22	19.1	1027
4	The LIN-2/LIN-7/LIN-10 complex mediates basolateral membrane localization of the C. elegans EGF receptor LET-23 in vulval epithelial cells. *Cell*, **1998**, 94, 761-71	56.2	316
3	Identification of an evolutionarily conserved heterotrimeric protein complex involved in protein targeting. *Journal of Biological Chemistry*, **1998**, 273, 31633-6	5.4	160
2	LET-23 receptor localization by the cell junction protein LIN-7 during C. elegans vulval induction. *Cell*, **1996**, 85, 195-204	56.2	242
1	Oxidized Lipids and CD36-Mediated Lipid Peroxidation in CD8 T Cells Suppress Anti-Tumor Immune Responses	2	