Doreen A Cantrell

List of Publications by Year in Descending Order

129 papers	11,921 citations	62 h-index	108 g-index
138 ext. papers	13,496 ext. citations	12.6 avg, IF	6.45 L-index

#	Paper	IF	Citations
129	Protein synthesis, degradation, and energy metabolism in T cell immunity.. *Cellular and Molecular Immunology*, **2022**,	15.4	3
128	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response.. *IScience*, **2022**, 25, 103827	6.1	4
127	Mitochondrial translation is required for sustained killing by cytotoxic T cells. *Science*, **2021**, 374, eabe9977	33.3	9
126	Hypoxia drives murine neutrophil protein scavenging to maintain central carbon metabolism. *Journal of Clinical Investigation*, **2021**, 131,	15.9	6
125	□□□□□□A type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS□□□ *Wellcome Open Research*, **2021**, 6, 38	4.8	12
124	Phosphoinositide 3-Kinase p110 Delta Differentially Restrains and Directs Na□e Versus Effector CD8□T Cell Transcriptional Programs. *Frontiers in Immunology*, **2021**, 12, 691997	8.4	3
123	Extracellular signal-regulated kinase (ERK) pathway control of CD8+ T cell differentiation. *Biochemical Journal*, **2021**, 478, 79-98	3.8	7
122	-------A type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS--. *Wellcome Open Research*, **2021**, 6, 38	4.8	8
121	Quantitative Analyses Reveal How Hypoxia Reconfigures the Proteome of Primary Cytotoxic T Lymphocytes. *Frontiers in Immunology*, **2021**, 12, 712402	8.4	0
120	The active inner life of naive T cells. *Nature Immunology*, **2020**, 21, 827-828	19.1	2
119	Single Cell Glucose Uptake Assays: A Cautionary Tale. *Immunometabolism*, **2020**, 2, e200029	4.1	19
118	Quantitative analysis of how Myc controls T cell proteomes and metabolic pathways during T cell activation. *ELife*, **2020**, 9,	8.9	49
117	Of Mosaicism and Mechanisms: How JAK1 Goes Awry. *Immunity*, **2020**, 53, 481-484	32.3	
116	Phenformin, But Not Metformin, Delays Development of T Cell Acute Lymphoblastic Leukemia/Lymphoma via Cell-Autonomous AMPK Activation. *Cell Reports*, **2019**, 27, 690-698.e4	10.6	31
115	Move to metabolism. *Nature Reviews Immunology*, **2019**, 19, 270	36.5	1
114	Antigen receptor control of methionine metabolism in T cells. *ELife*, **2019**, 8,	8.9	70
113	Quantitative analysis of T cell proteomes and environmental sensors during T cell differentiation. *Nature Immunology*, **2019**, 20, 1542-1554	19.1	72

112	Signaling and Function of Interleukin-2 in T Lymphocytes. *Annual Review of Immunology*, **2018**, 36, 411-433	34.7	249
111	Interleukin-2 shapes the cytotoxic T cell proteome and immune environment-sensing programs. *Science Signaling*, **2018**, 11,	8.8	37
110	Amino acid-dependent cMyc expression is essential for NK cell metabolic and functional responses in mice. *Nature Communications*, **2018**, 9, 2341	17.4	123
109	Single cell analysis of kynurenine and System L amino acid transport in T cells. *Nature Communications*, **2018**, 9, 1981	17.4	57
108	Phosphoproteomic Analyses of Interleukin 2 Signaling Reveal Integrated JAK Kinase-Dependent and -Independent Networks in CD8(+) T Cells. *Immunity*, **2016**, 45, 685-700	32.3	44
107	Potent and selective chemical probe of hypoxic signalling downstream of HIF- hydroxylation via VHL inhibition. *Nature Communications*, **2016**, 7, 13312	17.4	110
106	The cytotoxic T cell proteome and its shaping by the kinase mTOR. *Nature Immunology*, **2016**, 17, 104-12	19.1	135
105	Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. *Nature Immunology*, **2016**, 17, 712-20	19.1	194
104	Mathematical Models for Immunology: Current State of the Art and Future Research Directions. *Bulletin of Mathematical Biology*, **2016**, 78, 2091-2134	2.1	93
103	Metabolic regulation of hepatitis B immunopathology by myeloid-derived suppressor cells. *Nature Medicine*, **2015**, 21, 591-600	50.5	166
102	Single cell tuning of Myc expression by antigen receptor signal strength and interleukin-2 in T lymphocytes. *EMBO Journal*, **2015**, 34, 2008-24	13	92
101	Signaling in lymphocyte activation. *Cold Spring Harbor Perspectives in Biology*, **2015**, 7,	10.2	51
100	Environmental and metabolic sensors that control T cell biology. *Frontiers in Immunology*, **2015**, 6, 99	8.4	41
99	ICOS coreceptor signaling inactivates the transcription factor FOXO1 to promote Tfh cell differentiation. *Immunity*, **2015**, 42, 239-251	32.3	151
98	Protein kinase D2 is a digital amplifier of T cell receptor-stimulated diacylglycerol signaling in naïve CD8+ T cells. *Science Signaling*, **2014**, 7, ra99	8.8	25
97	Serine-threonine kinases in TCR signaling. *Nature Immunology*, **2014**, 15, 808-14	19.1	55
96	Adenosine-mono-phosphate-activated protein kinase-independent effects of metformin in T cells. *PLoS ONE*, **2014**, 9, e106710	3.7	23
95	Quantitative phosphoproteomics of cytotoxic T cells to reveal protein kinase d 2 regulated networks. *Molecular and Cellular Proteomics*, **2014**, 13, 3544-57	7.6	15

94	The BAFF receptor transduces survival signals by co-opting the B cell receptor signaling pathway. *Immunity*, **2013**, 38, 475-88	32.3	140
93	Control of amino-acid transport by antigen receptors coordinates the metabolic reprogramming essential for T cell differentiation. *Nature Immunology*, **2013**, 14, 500-8	19.1	526
92	AMPK1: a glucose sensor that controls CD8 T-cell memory. *European Journal of Immunology*, **2013**, 43, 889-96	6.1	168
91	LKB1 mediates the development of conventional and innate T cells via AMP-dependent kinase autonomous pathways. *PLoS ONE*, **2013**, 8, e60217	3.7	12
90	The impact of KLF2 modulation on the transcriptional program and function of CD8 T cells. *PLoS ONE*, **2013**, 8, e77537	3.7	20
89	Protein kinase D isoforms are dispensable for integrin-mediated lymphocyte adhesion and homing to lymphoid tissues. *European Journal of Immunology*, **2012**, 42, 1316-26	6.1	10
88	Protein kinase D2 has a restricted but critical role in T-cell antigen receptor signalling in mature T-cells. *Biochemical Journal*, **2012**, 442, 649-59	3.8	17
87	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8+ T cells. *Journal of Experimental Medicine*, **2012**, 209, 2441-53	16.6	389
86	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8+T cells. *Journal of Cell Biology*, **2012**, 199, i8-i8	7.3	1
85	Protein kinase C mediates platelet secretion and thrombus formation through protein kinase D2. *Blood*, **2011**, 118, 416-24	2.2	42
84	Phosphoproteomic analysis reveals an intrinsic pathway for the regulation of histone deacetylase 7 that controls the function of cytotoxic T lymphocytes. *Nature Immunology*, **2011**, 12, 352-61	19.1	83
83	Metabolism, migration and memory in cytotoxic T cells. *Nature Reviews Immunology*, **2011**, 11, 109-17	36.5	175
82	Protein kinase B controls transcriptional programs that direct cytotoxic T cell fate but is dispensable for T cell metabolism. *Immunity*, **2011**, 34, 224-36	32.3	202
81	The coordination of T-cell function by serine/threonine kinases. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3, a002261	10.2	13
80	Phosphoinositide 3-kinase and the mammalian target of rapamycin pathways control T cell migration. *Annals of the New York Academy of Sciences*, **2010**, 1183, 149-57	6.5	60
79	Temporal differences in the dependency on phosphoinositide-dependent kinase 1 distinguish the development of invariant Valpha14 NKT cells and conventional T cells. *Journal of Immunology*, **2010**, 185, 5973-82	5.3	22
78	LKB1 is essential for the proliferation of T-cell progenitors and mature peripheral T cells. *European Journal of Immunology*, **2010**, 40, 242-53	6.1	73
77	Unique functions for protein kinase D1 and protein kinase D2 in mammalian cells. *Biochemical Journal*, **2010**, 432, 153-63	3.8	60

76	Exploring the Biological Role of Kruppel-Like Factor 2 In Cytotoxic T Lymphocytes. *Blood*, **2010**, 116, 2783-2783	2.2	1
75	Phosphoinositide (3,4,5)-triphosphate binding to phosphoinositide-dependent kinase 1 regulates a protein kinase B/Akt signaling threshold that dictates T-cell migration, not proliferation. *Molecular and Cellular Biology*, **2009**, 29, 5952-62	4.8	65
74	Phosphoinositide-dependent kinase 1 controls migration and malignant transformation but not cell growth and proliferation in PTEN-null lymphocytes. *Journal of Experimental Medicine*, **2009**, 206, 2441-54	16.6	55
73	New insights into the regulation and function of serine/threonine kinases in T lymphocytes. *Immunological Reviews*, **2009**, 228, 241-52	11.3	26
72	Phosphoinositide-dependent kinase 1 controls migration and malignant transformation but not cell growth and proliferation in PTEN-null lymphocytes. *Journal of Cell Biology*, **2009**, 187, i1-i1	7.3	
71	Phosphatidylinositol-3-OH kinase and nutrient-sensing mTOR pathways control T lymphocyte trafficking. *Nature Immunology*, **2008**, 9, 513-21	19.1	318
70	T cell receptor signaling controls Foxp3 expression via PI3K, Akt, and mTOR. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7797-802	11.5	660
69	Notch-induced T cell development requires phosphoinositide-dependent kinase 1. *EMBO Journal*, **2007**, 26, 3441-50	13	105
68	Phosphoinositide-dependent protein kinase-1 (PDK1)-independent activation of the protein kinase C substrate, protein kinase D. *FEBS Letters*, **2007**, 581, 3494-8	3.8	5
67	Protein kinase D enzymes are dispensable for proliferation, survival and antigen receptor-regulated NFkappaB activity in vertebrate B-cells. *FEBS Letters*, **2007**, 581, 1377-82	3.8	21
66	The RhoA transcriptional program in pre-T cells. *FEBS Letters*, **2007**, 581, 4309-17	3.8	7
65	The role of serine/threonine kinases in T-cell activation. *Current Opinion in Immunology*, **2006**, 18, 314-20	7.8	15
64	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca2+ in T lymphocytes. *Journal of Experimental Medicine*, **2006**, 203, 1665-70	16.6	266
63	Essential role for protein kinase D family kinases in the regulation of class II histone deacetylases in B lymphocytes. *Molecular and Cellular Biology*, **2006**, 26, 1569-77	4.8	122
62	Differential requirement for RhoA GTPase depending on the cellular localization of protein kinase D. *Journal of Biological Chemistry*, **2006**, 281, 25089-96	5.4	16
61	Phosphoinositide-dependent kinase l (PDK1) haplo-insufficiency inhibits production of alpha/beta (alpha/beta) but not gamma delta (gamma/delta) T lymphocytes. *FEBS Letters*, **2006**, 580, 2135-40	3.8	10
60	Antigen receptor regulation of phosphoinositide-dependent kinase 1 pathways during thymocyte development. *FEBS Letters*, **2006**, 580, 5845-50	3.8	10
59	Diacylglycerol and protein kinase D localization during T lymphocyte activation. *Immunity*, **2006**, 24, 535-46	32.3	96

58	Differential regulation of T-cell growth by IL-2 and IL-15. *Blood*, **2006**, 108, 600-8	2.2	118
57	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca2+ in T lymphocytes. *Journal of Cell Biology*, **2006**, 174, i4-i4	7.3	
56	Integrin regulation by RhoA in thymocytes. *Journal of Immunology*, **2005**, 175, 350-7	5.3	60
55	Dual phospholipase C/diacylglycerol requirement for protein kinase D1 activation in lymphocytes. *Journal of Biological Chemistry*, **2005**, 280, 6245-51	5.4	24
54	Sustained IL-12 signaling is required for Th1 development. *Journal of Immunology*, **2004**, 172, 61-9	5.3	141
53	The serine kinase phosphoinositide-dependent kinase 1 (PDK1) regulates T cell development. *Nature Immunology*, **2004**, 5, 539-45	19.1	100
52	Protein kinase C and beyond. *Nature Immunology*, **2004**, 5, 785-90	19.1	238
51	Identification of pro-interleukin 16 as a novel target of MAP kinases in activated T lymphocytes. *European Journal of Immunology*, **2004**, 34, 587-97	6.1	18
50	Commentary: Vav-1 and T cells. *European Journal of Immunology*, **2003**, 33, 1070-2	6.1	5
49	GTPases and T cell activation. *Immunological Reviews*, **2003**, 192, 122-30	11.3	139
48	Regulation and function of serine kinase networks in lymphocytes. *Current Opinion in Immunology*, **2003**, 15, 294-8	7.8	18
47	Intracellular location and cell context-dependent function of protein kinase D. *Immunity*, **2003**, 19, 491-501	32.3	80
46	Approaches to define antigen receptor-induced serine kinase signal transduction pathways. *Journal of Biological Chemistry*, **2003**, 278, 9267-75	5.4	29
45	T-cell antigen receptor signal transduction. *Immunology*, **2002**, 105, 369-74	7.8	69
44	Rap1A positively regulates T cells via integrin activation rather than inhibiting lymphocyte signaling. *Nature Immunology*, **2002**, 3, 251-8	19.1	247
43	Sustained and dynamic inositol lipid metabolism inside and outside the immunological synapse. *Nature Immunology*, **2002**, 3, 1082-9	19.1	179
42	Transgenic analysis of thymocyte signal transduction. *Nature Reviews Immunology*, **2002**, 2, 20-7	36.5	44
41	A new role for the p85-phosphatidylinositol 3-kinase regulatory subunit linking FRAP to p70 S6 kinase activation. *Journal of Biological Chemistry*, **2002**, 277, 1500-8	5.4	36

40	Protein kinase D is a downstream target of protein kinase Ctheta. *Biochemical and Biophysical Research Communications*, **2002**, 291, 444-52	3.4	61
39	Protein kinase B (Akt) regulation and function in T lymphocytes. *Seminars in Immunology*, **2002**, 14, 19-26	10.7	98
38	Evidence that SHIP-1 contributes to phosphatidylinositol 3,4,5-trisphosphate metabolism in T lymphocytes and can regulate novel phosphoinositide 3-kinase effectors. *Journal of Immunology*, **2002**, 169, 5441-50	5.3	103
37	Regulation of an activated S6 kinase 1 variant reveals a novel mammalian target of rapamycin phosphorylation site. *Journal of Biological Chemistry*, **2002**, 277, 20104-12	5.4	134
36	Phosphoinositide 3-kinases in T lymphocyte activation. *Current Opinion in Immunology*, **2001**, 13, 332-8	7.8	83
35	Analysis of thymocyte development reveals that the GTPase RhoA is a positive regulator of T cell receptor responses in vivo. *Journal of Experimental Medicine*, **2001**, 194, 903-14	16.6	65
34	Rapid protein kinase D translocation in response to G protein-coupled receptor activation. Dependence on protein kinase C. *Journal of Biological Chemistry*, **2001**, 276, 32616-26	5.4	90
33	Activation loop Ser744 and Ser748 in protein kinase D are transphosphorylated in vivo. *Journal of Biological Chemistry*, **2001**, 276, 32606-15	5.4	139
32	The GTPase Rac-1 controls cell fate in the thymus by diverting thymocytes from positive to negative selection. *Immunity*, **2001**, 15, 703-13	32.3	46
31	IL-12 selectively regulates STAT4 via phosphatidylinositol 3-kinase and Ras-independent signal transduction pathways. *European Journal of Immunology*, **2000**, 30, 1425-34	6.1	23
30	Ras regulation and function in lymphocytes. *Current Opinion in Immunology*, **2000**, 12, 289-94	7.8	142
29	Control of pre-T cell proliferation and differentiation by the GTPase Rac-I. *Nature Immunology*, **2000**, 1, 348-52	19.1	78
28	The GTPase rho controls a p53-dependent survival checkpoint during thymopoiesis. *Journal of Experimental Medicine*, **2000**, 192, 77-85	16.6	54
27	Protein kinase D. A selective target for antigen receptors and a downstream target for protein kinase C in lymphocytes. *Journal of Experimental Medicine*, **2000**, 191, 2075-82	16.6	98
26	The T cell antigen receptor activates phosphatidylinositol 3-kinase-regulated serine kinases protein kinase B and ribosomal S6 kinase 1. *FEBS Letters*, **2000**, 486, 38-42	3.8	31
25	T cell activation and the cytoskeleton. *Annual Review of Immunology*, **2000**, 18, 165-84	34.7	216
24	Characterization of serine 916 as an in vivo autophosphorylation site for protein kinase D/Protein kinase Cmu. *Journal of Biological Chemistry*, **1999**, 274, 26543-9	5.4	183
23	The dynamics of protein kinase B regulation during B cell antigen receptor engagement. *Journal of Cell Biology*, **1999**, 145, 1511-20	7.3	119

22	Inhibition of Rho at different stages of thymocyte development gives different perspectives on Rho function. *Current Biology*, **1999**, 9, 657-60	6.3	37
21	Dynamic re-distribution of protein kinase D (PKD) as revealed by a GFP-PKD fusion protein: dissociation from PKD activation. *FEBS Letters*, **1999**, 457, 515-21	3.8	63
20	p70(s6k) integrates phosphatidylinositol 3-kinase and rapamycin-regulated signals for E2F regulation in T lymphocytes. *Molecular and Cellular Biology*, **1999**, 19, 4729-38	4.8	124
19	Protection of CD95-mediated apoptosis by activation of phosphatidylinositide 3-kinase and protein kinase B. *European Journal of Immunology*, **1998**, 28, 57-69	6.1	96
18	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells. *European Journal of Immunology*, **1998**, 28, 1877-85	6.1	48
17	GTPases in antigen receptor signalling. *Current Opinion in Immunology*, **1998**, 10, 322-9	7.8	71
16	Networking Rho family GTPases in lymphocytes. *Immunity*, **1998**, 8, 395-401	32.3	72
15	Rac-1 regulates nuclear factor of activated T cells (NFAT) C1 nuclear translocation in response to Fcepsilon receptor type 1 stimulation of mast cells. *Journal of Experimental Medicine*, **1998**, 188, 527-37	16.6	46
14	p56lck signals for regulating thymocyte development can be distinguished by their dependency on Rho function. *Journal of Experimental Medicine*, **1998**, 188, 931-9	16.6	32
13	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells **1998**, 28, 1877		2
12	Phosphatidylinositol 3-kinase links the interleukin-2 receptor to protein kinase B and p70 S6 kinase. *Journal of Biological Chemistry*, **1997**, 272, 14426-33	5.4	145
11	STAT3 is a serine kinase target in T lymphocytes. Interleukin 2 and T cell antigen receptor signals converge upon serine 727. *Journal of Biological Chemistry*, **1997**, 272, 24542-9	5.4	116
10	Phosphatidylinositol 3-kinase couples the interleukin-2 receptor to the cell cycle regulator E2F. *Immunity*, **1997**, 7, 679-89	32.3	360
9	Different functions of the GTPase Rho in prothymocytes and late pre-T cells. *Immunity*, **1997**, 7, 163-74	32.3	83
8	A negative role for phosphoinositide 3-kinase in T-cell antigen receptor function. *Current Biology*, **1997**, 7, 285-93	6.3	54
7	The GTPase Rho has a critical regulatory role in thymus development. *EMBO Journal*, **1997**, 16, 2397-407	13	116
6	Phosphatidylinositol 3-kinase signals activate a selective subset of Rac/Rho-dependent effector pathways. *Current Biology*, **1996**, 6, 1445-55	6.3	241
5	Analysis of the role of protein kinase C-alpha, -epsilon, and -zeta in T cell activation. *Journal of Biological Chemistry*, **1995**, 270, 9833-9	5.4	161

4	Protein kinase C is not a downstream effector of p21ras in activated T cells. *European Journal of Immunology*, **1995**, 25, 42-7	6.1	27
3	Regulation of D-3 phosphoinositides during T cell activation via the T cell antigen receptor/CD3 complex and CD2 antigens. *European Journal of Immunology*, **1992**, 22, 45-9	6.1	92
2	Stimulation of p21ras upon T-cell activation. *Nature*, **1990**, 346, 719-23	50.4	854
1	Proteomics identifies a type I IFN, prothrombotic hyperinflammatory circulating COVID-19 neutrophil signature distinct from non-COVID-19 ARDS		3