

# Doreen A Cantrell

## List of Publications by Citations

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129  
papers

11,921  
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62  
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108  
g-index

138  
ext. papers

13,496  
ext. citations

12.6  
avg, IF

6.45  
L-index

#	Paper	IF	Citations
129	Stimulation of p21ras upon T-cell activation. <i>Nature</i> , <b>1990</b> , 346, 719-23	50.4	854
128	T cell receptor signaling controls Foxp3 expression via PI3K, Akt, and mTOR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 7797-802	11.5	660
127	Control of amino-acid transport by antigen receptors coordinates the metabolic reprogramming essential for T cell differentiation. <i>Nature Immunology</i> , <b>2013</b> , 14, 500-8	19.1	526
126	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8+ T cells. <i>Journal of Experimental Medicine</i> , <b>2012</b> , 209, 2441-53	16.6	389
125	Phosphatidylinositol 3-kinase couples the interleukin-2 receptor to the cell cycle regulator E2F. <i>Immunity</i> , <b>1997</b> , 7, 679-89	32.3	360
124	Phosphatidylinositol-3-OH kinase and nutrient-sensing mTOR pathways control T lymphocyte trafficking. <i>Nature Immunology</i> , <b>2008</b> , 9, 513-21	19.1	318
123	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca <sup>2+</sup> in T lymphocytes. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 1665-70	16.6	266
122	Signaling and Function of Interleukin-2 in T Lymphocytes. <i>Annual Review of Immunology</i> , <b>2018</b> , 36, 411-433	31.7	249
121	Rap1A positively regulates T cells via integrin activation rather than inhibiting lymphocyte signaling. <i>Nature Immunology</i> , <b>2002</b> , 3, 251-8	19.1	247
120	Phosphatidylinositol 3-kinase signals activate a selective subset of Rac/Rho-dependent effector pathways. <i>Current Biology</i> , <b>1996</b> , 6, 1445-55	6.3	241
119	Protein kinase C and beyond. <i>Nature Immunology</i> , <b>2004</b> , 5, 785-90	19.1	238
118	T cell activation and the cytoskeleton. <i>Annual Review of Immunology</i> , <b>2000</b> , 18, 165-84	34.7	216
117	Protein kinase B controls transcriptional programs that direct cytotoxic T cell fate but is dispensable for T cell metabolism. <i>Immunity</i> , <b>2011</b> , 34, 224-36	32.3	202
116	Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. <i>Nature Immunology</i> , <b>2016</b> , 17, 712-20	19.1	194
115	Characterization of serine 916 as an in vivo autophosphorylation site for protein kinase D/Protein kinase C $\mu$ . <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 26543-9	5.4	183
114	Sustained and dynamic inositol lipid metabolism inside and outside the immunological synapse. <i>Nature Immunology</i> , <b>2002</b> , 3, 1082-9	19.1	179
113	Metabolism, migration and memory in cytotoxic T cells. <i>Nature Reviews Immunology</i> , <b>2011</b> , 11, 109-17	36.5	175

112	AMPK $\beta$ : a glucose sensor that controls CD8 T-cell memory. <i>European Journal of Immunology</i> , <b>2013</b> , 43, 889-96	6.1	168
111	Metabolic regulation of hepatitis B immunopathology by myeloid-derived suppressor cells. <i>Nature Medicine</i> , <b>2015</b> , 21, 591-600	50.5	166
110	Analysis of the role of protein kinase C-alpha, -epsilon, and -zeta in T cell activation. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 9833-9	5.4	161
109	ICOS coreceptor signaling inactivates the transcription factor FOXO1 to promote Tfh cell differentiation. <i>Immunity</i> , <b>2015</b> , 42, 239-251	32.3	151
108	Phosphatidylinositol 3-kinase links the interleukin-2 receptor to protein kinase B and p70 S6 kinase. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 14426-33	5.4	145
107	Ras regulation and function in lymphocytes. <i>Current Opinion in Immunology</i> , <b>2000</b> , 12, 289-94	7.8	142
106	Sustained IL-12 signaling is required for Th1 development. <i>Journal of Immunology</i> , <b>2004</b> , 172, 61-9	5.3	141
105	The BAFF receptor transduces survival signals by co-opting the B cell receptor signaling pathway. <i>Immunity</i> , <b>2013</b> , 38, 475-88	32.3	140
104	GTPases and T cell activation. <i>Immunological Reviews</i> , <b>2003</b> , 192, 122-30	11.3	139
103	Activation loop Ser744 and Ser748 in protein kinase D are transphosphorylated in vivo. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 32606-15	5.4	139
102	The cytotoxic T cell proteome and its shaping by the kinase mTOR. <i>Nature Immunology</i> , <b>2016</b> , 17, 104-12	19.1	135
101	Regulation of an activated S6 kinase 1 variant reveals a novel mammalian target of rapamycin phosphorylation site. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 20104-12	5.4	134
100	p70(s6k) integrates phosphatidylinositol 3-kinase and rapamycin-regulated signals for E2F regulation in T lymphocytes. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 4729-38	4.8	124
99	Amino acid-dependent cMyc expression is essential for NK cell metabolic and functional responses in mice. <i>Nature Communications</i> , <b>2018</b> , 9, 2341	17.4	123
98	Essential role for protein kinase D family kinases in the regulation of class II histone deacetylases in B lymphocytes. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 1569-77	4.8	122
97	The dynamics of protein kinase B regulation during B cell antigen receptor engagement. <i>Journal of Cell Biology</i> , <b>1999</b> , 145, 1511-20	7.3	119
96	Differential regulation of T-cell growth by IL-2 and IL-15. <i>Blood</i> , <b>2006</b> , 108, 600-8	2.2	118
95	STAT3 is a serine kinase target in T lymphocytes. Interleukin 2 and T cell antigen receptor signals converge upon serine 727. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 24542-9	5.4	116

94	The GTPase Rho has a critical regulatory role in thymus development. <i>EMBO Journal</i> , <b>1997</b> , 16, 2397-407	13	116
93	Potent and selective chemical probe of hypoxic signalling downstream of HIF-1 $\alpha$ hydroxylation via VHL inhibition. <i>Nature Communications</i> , <b>2016</b> , 7, 13312	17.4	110
92	Notch-induced T cell development requires phosphoinositide-dependent kinase 1. <i>EMBO Journal</i> , <b>2007</b> , 26, 3441-50	13	105
91	Evidence that SHIP-1 contributes to phosphatidylinositol 3,4,5-trisphosphate metabolism in T lymphocytes and can regulate novel phosphoinositide 3-kinase effectors. <i>Journal of Immunology</i> , <b>2002</b> , 169, 5441-50	5.3	103
90	The serine kinase phosphoinositide-dependent kinase 1 (PDK1) regulates T cell development. <i>Nature Immunology</i> , <b>2004</b> , 5, 539-45	19.1	100
89	Protein kinase B (Akt) regulation and function in T lymphocytes. <i>Seminars in Immunology</i> , <b>2002</b> , 14, 19-26	10.7	98
88	Protein kinase D. A selective target for antigen receptors and a downstream target for protein kinase C in lymphocytes. <i>Journal of Experimental Medicine</i> , <b>2000</b> , 191, 2075-82	16.6	98
87	Protection of CD95-mediated apoptosis by activation of phosphatidylinositol 3-kinase and protein kinase B. <i>European Journal of Immunology</i> , <b>1998</b> , 28, 57-69	6.1	96
86	Diacylglycerol and protein kinase D localization during T lymphocyte activation. <i>Immunity</i> , <b>2006</b> , 24, 535-46	10.3	96
85	Mathematical Models for Immunology: Current State of the Art and Future Research Directions. <i>Bulletin of Mathematical Biology</i> , <b>2016</b> , 78, 2091-2134	2.1	93
84	Single cell tuning of Myc expression by antigen receptor signal strength and interleukin-2 in T lymphocytes. <i>EMBO Journal</i> , <b>2015</b> , 34, 2008-24	13	92
83	Regulation of D-3 phosphoinositides during T cell activation via the T cell antigen receptor/CD3 complex and CD2 antigens. <i>European Journal of Immunology</i> , <b>1992</b> , 22, 45-9	6.1	92
82	Rapid protein kinase D translocation in response to G protein-coupled receptor activation. Dependence on protein kinase C. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 32616-26	5.4	90
81	Phosphoproteomic analysis reveals an intrinsic pathway for the regulation of histone deacetylase 7 that controls the function of cytotoxic T lymphocytes. <i>Nature Immunology</i> , <b>2011</b> , 12, 352-61	19.1	83
80	Different functions of the GTPase Rho in prothymocytes and late pre-T cells. <i>Immunity</i> , <b>1997</b> , 7, 163-74	32.3	83
79	Phosphoinositide 3-kinases in T lymphocyte activation. <i>Current Opinion in Immunology</i> , <b>2001</b> , 13, 332-8	7.8	83
78	Intracellular location and cell context-dependent function of protein kinase D. <i>Immunity</i> , <b>2003</b> , 19, 491-503	10.3	80
77	Control of pre-T cell proliferation and differentiation by the GTPase Rac-1. <i>Nature Immunology</i> , <b>2000</b> , 1, 348-52	19.1	78

76	LKB1 is essential for the proliferation of T-cell progenitors and mature peripheral T cells. <i>European Journal of Immunology</i> , <b>2010</b> , 40, 242-53	6.1	73
75	Networking Rho family GTPases in lymphocytes. <i>Immunity</i> , <b>1998</b> , 8, 395-401	32.3	72
74	Quantitative analysis of T cell proteomes and environmental sensors during T cell differentiation. <i>Nature Immunology</i> , <b>2019</b> , 20, 1542-1554	19.1	72
73	GTPases in antigen receptor signalling. <i>Current Opinion in Immunology</i> , <b>1998</b> , 10, 322-9	7.8	71
72	Antigen receptor control of methionine metabolism in T cells. <i>ELife</i> , <b>2019</b> , 8,	8.9	70
71	T-cell antigen receptor signal transduction. <i>Immunology</i> , <b>2002</b> , 105, 369-74	7.8	69
70	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. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 5952-62	4.8	65
69	Analysis of thymocyte development reveals that the GTPase RhoA is a positive regulator of T cell receptor responses in vivo. <i>Journal of Experimental Medicine</i> , <b>2001</b> , 194, 903-14	16.6	65
68	Dynamic re-distribution of protein kinase D (PKD) as revealed by a GFP-PKD fusion protein: dissociation from PKD activation. <i>FEBS Letters</i> , <b>1999</b> , 457, 515-21	3.8	63
67	Protein kinase D is a downstream target of protein kinase Ctheta. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 291, 444-52	3.4	61
66	Phosphoinositide 3-kinase and the mammalian target of rapamycin pathways control T cell migration. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1183, 149-57	6.5	60
65	Unique functions for protein kinase D1 and protein kinase D2 in mammalian cells. <i>Biochemical Journal</i> , <b>2010</b> , 432, 153-63	3.8	60
64	Integrin regulation by RhoA in thymocytes. <i>Journal of Immunology</i> , <b>2005</b> , 175, 350-7	5.3	60
63	Single cell analysis of kynurenine and System L amino acid transport in T cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1981	17.4	57
62	Serine-threonine kinases in TCR signaling. <i>Nature Immunology</i> , <b>2014</b> , 15, 808-14	19.1	55
61	Phosphoinositide-dependent kinase 1 controls migration and malignant transformation but not cell growth and proliferation in PTEN-null lymphocytes. <i>Journal of Experimental Medicine</i> , <b>2009</b> , 206, 2441-54	16.6	55
60	A negative role for phosphoinositide 3-kinase in T-cell antigen receptor function. <i>Current Biology</i> , <b>1997</b> , 7, 285-93	6.3	54
59	The GTPase rho controls a p53-dependent survival checkpoint during thymopoiesis. <i>Journal of Experimental Medicine</i> , <b>2000</b> , 192, 77-85	16.6	54

58	Signaling in lymphocyte activation. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2015</b> , 7,	10.2	51
57	Quantitative analysis of how Myc controls T cell proteomes and metabolic pathways during T cell activation. <i>ELife</i> , <b>2020</b> , 9,	8.9	49
56	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells. <i>European Journal of Immunology</i> , <b>1998</b> , 28, 1877-85	6.1	48
55	The GTPase Rac-1 controls cell fate in the thymus by diverting thymocytes from positive to negative selection. <i>Immunity</i> , <b>2001</b> , 15, 703-13	32.3	46
54	Rac-1 regulates nuclear factor of activated T cells (NFAT) C1 nuclear translocation in response to Fcepsilon receptor type 1 stimulation of mast cells. <i>Journal of Experimental Medicine</i> , <b>1998</b> , 188, 527-37	16.6	46
53	Phosphoproteomic Analyses of Interleukin 2 Signaling Reveal Integrated JAK Kinase-Dependent and -Independent Networks in CD8(+) T Cells. <i>Immunity</i> , <b>2016</b> , 45, 685-700	32.3	44
52	Transgenic analysis of thymocyte signal transduction. <i>Nature Reviews Immunology</i> , <b>2002</b> , 2, 20-7	36.5	44
51	Protein kinase C mediates platelet secretion and thrombus formation through protein kinase D2. <i>Blood</i> , <b>2011</b> , 118, 416-24	2.2	42
50	Environmental and metabolic sensors that control T cell biology. <i>Frontiers in Immunology</i> , <b>2015</b> , 6, 99	8.4	41
49	Interleukin-2 shapes the cytotoxic T cell proteome and immune environment-sensing programs. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	37
48	Inhibition of Rho at different stages of thymocyte development gives different perspectives on Rho function. <i>Current Biology</i> , <b>1999</b> , 9, 657-60	6.3	37
47	A new role for the p85-phosphatidylinositol 3-kinase regulatory subunit linking FRAP to p70 S6 kinase activation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1500-8	5.4	36
46	p56lck signals for regulating thymocyte development can be distinguished by their dependency on Rho function. <i>Journal of Experimental Medicine</i> , <b>1998</b> , 188, 931-9	16.6	32
45	Phenformin, But Not Metformin, Delays Development of T Cell Acute Lymphoblastic Leukemia/Lymphoma via Cell-Autonomous AMPK Activation. <i>Cell Reports</i> , <b>2019</b> , 27, 690-698.e4	10.6	31
44	The T cell antigen receptor activates phosphatidylinositol 3-kinase-regulated serine kinases protein kinase B and ribosomal S6 kinase 1. <i>FEBS Letters</i> , <b>2000</b> , 486, 38-42	3.8	31
43	Approaches to define antigen receptor-induced serine kinase signal transduction pathways. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 9267-75	5.4	29
42	Protein kinase C is not a downstream effector of p21ras in activated T cells. <i>European Journal of Immunology</i> , <b>1995</b> , 25, 42-7	6.1	27
41	New insights into the regulation and function of serine/threonine kinases in T lymphocytes. <i>Immunological Reviews</i> , <b>2009</b> , 228, 241-52	11.3	26

40	Protein kinase D2 is a digital amplifier of T cell receptor-stimulated diacylglycerol signaling in naive CD8+ T cells. <i>Science Signaling</i> , <b>2014</b> , 7, ra99	8.8	25
39	Dual phospholipase C/diacylglycerol requirement for protein kinase D1 activation in lymphocytes. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 6245-51	5.4	24
38	Adenosine-mono-phosphate-activated protein kinase-independent effects of metformin in T cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e106710	3.7	23
37	IL-12 selectively regulates STAT4 via phosphatidylinositol 3-kinase and Ras-independent signal transduction pathways. <i>European Journal of Immunology</i> , <b>2000</b> , 30, 1425-34	6.1	23
36	Temporal differences in the dependency on phosphoinositide-dependent kinase 1 distinguish the development of invariant Valpha14 NKT cells and conventional T cells. <i>Journal of Immunology</i> , <b>2010</b> , 185, 5973-82	5.3	22
35	Protein kinase D enzymes are dispensable for proliferation, survival and antigen receptor-regulated NFkappaB activity in vertebrate B-cells. <i>FEBS Letters</i> , <b>2007</b> , 581, 1377-82	3.8	21
34	The impact of KLF2 modulation on the transcriptional program and function of CD8 T cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e77537	3.7	20
33	Single Cell Glucose Uptake Assays: A Cautionary Tale. <i>Immunometabolism</i> , <b>2020</b> , 2, e200029	4.1	19
32	Identification of pro-interleukin 16 as a novel target of MAP kinases in activated T lymphocytes. <i>European Journal of Immunology</i> , <b>2004</b> , 34, 587-97	6.1	18
31	Regulation and function of serine kinase networks in lymphocytes. <i>Current Opinion in Immunology</i> , <b>2003</b> , 15, 294-8	7.8	18
30	Protein kinase D2 has a restricted but critical role in T-cell antigen receptor signalling in mature T-cells. <i>Biochemical Journal</i> , <b>2012</b> , 442, 649-59	3.8	17
29	Differential requirement for RhoA GTPase depending on the cellular localization of protein kinase D. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 25089-96	5.4	16
28	Quantitative phosphoproteomics of cytotoxic T cells to reveal protein kinase d 2 regulated networks. <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 3544-57	7.6	15
27	The role of serine/threonine kinases in T-cell activation. <i>Current Opinion in Immunology</i> , <b>2006</b> , 18, 314-20	7.8	15
26	The coordination of T-cell function by serine/threonine kinases. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a002261	10.2	13
25	LKB1 mediates the development of conventional and innate T cells via AMP-dependent kinase autonomous pathways. <i>PLoS ONE</i> , <b>2013</b> , 8, e60217	3.7	12
24	IFN type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS. <i>Wellcome Open Research</i> , <b>2021</b> , 6, 38	4.8	12
23	Protein kinase D isoforms are dispensable for integrin-mediated lymphocyte adhesion and homing to lymphoid tissues. <i>European Journal of Immunology</i> , <b>2012</b> , 42, 1316-26	6.1	10

22	Phosphoinositide-dependent kinase I (PDK1) haplo-insufficiency inhibits production of alpha/beta (alpha/beta) but not gamma delta (gamma/delta) T lymphocytes. <i>FEBS Letters</i> , <b>2006</b> , 580, 2135-40	3.8	10
21	Antigen receptor regulation of phosphoinositide-dependent kinase 1 pathways during thymocyte development. <i>FEBS Letters</i> , <b>2006</b> , 580, 5845-50	3.8	10
20	Mitochondrial translation is required for sustained killing by cytotoxic T cells. <i>Science</i> , <b>2021</b> , 374, eabe99773	9.3	9
19	-----A type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDS-. <i>Wellcome Open Research</i> , <b>2021</b> , 6, 38	4.8	8
18	The RhoA transcriptional program in pre-T cells. <i>FEBS Letters</i> , <b>2007</b> , 581, 4309-17	3.8	7
17	Extracellular signal-regulated kinase (ERK) pathway control of CD8+ T cell differentiation. <i>Biochemical Journal</i> , <b>2021</b> , 478, 79-98	3.8	7
16	Hypoxia drives murine neutrophil protein scavenging to maintain central carbon metabolism. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	6
15	Phosphoinositide-dependent protein kinase-1 (PDK1)-independent activation of the protein kinase C substrate, protein kinase D. <i>FEBS Letters</i> , <b>2007</b> , 581, 3494-8	3.8	5
14	Commentary: Vav-1 and T cells. <i>European Journal of Immunology</i> , <b>2003</b> , 33, 1070-2	6.1	5
13	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response.. <i>IScience</i> , <b>2022</b> , 25, 103827	6.1	4
12	Protein synthesis, degradation, and energy metabolism in T cell immunity.. <i>Cellular and Molecular Immunology</i> , <b>2022</b> ,	15.4	3
11	Proteomics identifies a type I IFN, prothrombotic hyperinflammatory circulating COVID-19 neutrophil signature distinct from non-COVID-19 ARDS		3
10	Phosphoinositide 3-Kinase p110 Delta Differentially Restrains and Directs Naïve Versus Effector CD8 <sup>+</sup> T Cell Transcriptional Programs. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 691997	8.4	3
9	The active inner life of naive T cells. <i>Nature Immunology</i> , <b>2020</b> , 21, 827-828	19.1	2
8	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells <b>1998</b> , 28, 1877		2
7	Move to metabolism. <i>Nature Reviews Immunology</i> , <b>2019</b> , 19, 270	36.5	1
6	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8 <sup>+</sup> T cells. <i>Journal of Cell Biology</i> , <b>2012</b> , 199, i8-i8	7.3	1
5	Exploring the Biological Role of Kruppel-Like Factor 2 In Cytotoxic T Lymphocytes. <i>Blood</i> , <b>2010</b> , 116, 2783-2783	2.2	1



4	Quantitative Analyses Reveal How Hypoxia Reconfigures the Proteome of Primary Cytotoxic T Lymphocytes. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 712402	8.4	o
3	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca <sup>2+</sup> in T lymphocytes. <i>Journal of Cell Biology</i> , <b>2006</b> , 174, i4-i4	7.3	
2	Phosphoinositide-dependent kinase 1 controls migration and malignant transformation but not cell growth and proliferation in PTEN-null lymphocytes. <i>Journal of Cell Biology</i> , <b>2009</b> , 187, i1-i1	7.3	
1	Of Mosaicism and Mechanisms: How JAK1 Goes Awry. <i>Immunity</i> , <b>2020</b> , 53, 481-484	32.3	