Doreen A Cantrell

List of Publications by Year
in descending order

		14655	19190
128	14,756	66	118
papers	citations	h-index	g-index
138	138	138	15944
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stimulation of p21ras upon T-cell activation. Nature, 1990, 346, 719-723.	27.8	907
2	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, 7797-7802.	7.1	747
3	Control of amino-acid transport by antigen receptors coordinates the metabolic reprogramming essential for T cell differentiation. Nature Immunology, 2013, 14, 500-508.	14.5	732
4	Signaling and Function of Interleukin-2 in T Lymphocytes. Annual Review of Immunology, 2018, 36, 411-433.	21.8	539
5	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8+ T cells. Journal of Experimental Medicine, 2012, 209, 2441-2453.	8.5	518
6	Phosphatidylinositol 3-Kinase Couples the Interleukin-2 Receptor to the Cell Cycle Regulator E2F. Immunity, 1997, 7, 679-689.	14.3	383
7	Phosphatidylinositol-3-OH kinase and nutrient-sensing mTOR pathways control T lymphocyte trafficking. Nature Immunology, 2008, 9, 513-521.	14.5	364
8	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca2+ in T lymphocytes. Journal of Experimental Medicine, 2006, 203, 1665-1670.	8.5	298
9	Protein kinase C and beyond. Nature Immunology, 2004, 5, 785-790.	14.5	268
10	Glucose and glutamine fuel protein O-GlcNAcylation to control T cell self-renewal and malignancy. Nature Immunology, 2016, 17, 712-720.	14.5	265
11	Rap1A positively regulates T cells via integrin activation rather than inhibiting lymphocyte signaling. Nature Immunology, 2002, 3, 251-258.	14.5	261
12	Phosphatidylinositol 3-kinase signals activate a selective subset of Rac/Rho-dependent effector pathways. Current Biology, 1996, 6, 1445-1455.	3.9	257
13	T Cell Activation and the Cytoskeleton. Annual Review of Immunology, 2000, 18, 165-184.	21.8	244
14	Amino acid-dependent cMyc expression is essential for NK cell metabolic and functional responses in mice. Nature Communications, 2018, 9, 2341.	12.8	238
15	Protein Kinase B Controls Transcriptional Programs that Direct Cytotoxic T Cell Fate but Is Dispensable for T Cell Metabolism. Immunity, 2011, 34, 224-236.	14.3	235
16	Metabolic regulation of hepatitis B immunopathology by myeloid-derived suppressor cells. Nature Medicine, 2015, 21, 591-600.	30.7	226
17	ICOS Coreceptor Signaling Inactivates the Transcription Factor FOXO1 to Promote Tfh Cell Differentiation. Immunity, 2015, 42, 239-251.	14.3	204
18	Metabolism, migration and memory in cytotoxic T cells. Nature Reviews Immunology, 2011, 11, 109-117.	22.7	203

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19	Characterization of Serine 916 as an in Vivo Autophosphorylation Site for Protein Kinase D/Protein Kinase CÎ¼. Journal of Biological Chemistry, 1999, 274, 26543-26549.	3.4	201
20	<scp>AMPK</scp>Î±1: A glucose sensor that controls <scp>CD</scp>8 <scp>T</scp>â€cell memory. European Journal of Immunology, 2013, 43, 889-896.	2.9	201
21	Sustained and dynamic inositol lipid metabolism inside and outside the immunological synapse. Nature Immunology, 2002, 3, 1082-1089.	14.5	195
22	The cytotoxic T cell proteome and its shaping by the kinase mTOR. Nature Immunology, 2016, 17, 104-112.	14.5	192
23	The BAFF Receptor Transduces Survival Signals by Co-opting the B Cell Receptor Signaling Pathway. Immunity, 2013, 38, 475-488.	14.3	186
24	Analysis of the Role of Protein Kinase C-Î±, -Îµ, and -Î¶ in T Cell Activation. Journal of Biological Chemistry, 1995, 270, 9833-9839.	3.4	183
25	Sustained IL-12 Signaling Is Required for Th1 Development. Journal of Immunology, 2004, 172, 61-69.	0.8	169
26	Potent and selective chemical probe of hypoxic signalling downstream of HIF-Î± hydroxylation via VHL inhibition. Nature Communications, 2016, 7, 13312.	12.8	167
27	Phosphatidylinositol 3-Kinase Links the Interleukin-2 Receptor to Protein Kinase B and p70 S6 Kinase. Journal of Biological Chemistry, 1997, 272, 14426-14433.	3.4	161
28	Regulation of an Activated S6 Kinase 1 Variant Reveals a Novel Mammalian Target of Rapamycin Phosphorylation Site. Journal of Biological Chemistry, 2002, 277, 20104-20112.	3.4	160
29	Ras regulation and function in lymphocytes. Current Opinion in Immunology, 2000, 12, 289-294.	5.5	158
30	Quantitative analysis of T cell proteomes and environmental sensors during T cell differentiation. Nature Immunology, 2019, 20, 1542-1554.	14.5	152
31	GTPases and T cell activation. Immunological Reviews, 2003, 192, 122-130.	6.0	149
32	Differential regulation of T-cell growth by IL-2 and IL-15. Blood, 2006, 108, 600-608.	1.4	145
33	Mathematical Models for Immunology: Current State of the Art and Future Research Directions. Bulletin of Mathematical Biology, 2016, 78, 2091-2134.	1.9	143
34	Activation Loop Ser744 and Ser748 in Protein Kinase D Are Transphosphorylated in Vivo. Journal of Biological Chemistry, 2001, 276, 32606-32615.	3.4	142
35	Single cell tuning of Myc expression by antigen receptor signal strength and interleukinâ€2 in T lymphocytes. EMBO Journal, 2015, 34, 2008-2024.	7.8	135
36	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, 1569-1577.	2.3	133

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37	Antigen receptor control of methionine metabolism in T cells. ELife, 2019, 8, .	6.0	132
38	p70^{s6k} Integrates Phosphatidylinositol 3-Kinase and Rapamycin-Regulated Signals for E2F Regulation in T Lymphocytes. Molecular and Cellular Biology, 1999, 19, 4729-4738.	2.3	131
39	STAT3 Is a Serine Kinase Target in T Lymphocytes. Journal of Biological Chemistry, 1997, 272, 24542-24549.	3.4	130
40	The GTPase Rho has a critical regulatory role in thymus development. EMBO Journal, 1997, 16, 2397-2407.	7.8	130
41	Notch-induced T cell development requires phosphoinositide-dependent kinase 1. EMBO Journal, 2007, 26, 3441-3450.	7.8	130
42	Single cell analysis of kynurenine and System L amino acid transport in T cells. Nature Communications, 2018, 9, 1981.	12.8	128
43	Quantitative analysis of how Myc controls T cell proteomes and metabolic pathways during T cell activation. ELife, 2020, 9, .	6.0	126
44	The Dynamics of Protein Kinase B Regulation during B Cell Antigen Receptor Engagement. Journal of Cell Biology, 1999, 145, 1511-1520.	5.2	121
45	Diacylglycerol and Protein Kinase D Localization during T Lymphocyte Activation. Immunity, 2006, 24, 535-546.	14.3	118
46	Protein kinase B (Akt) regulation and function in T lymphocytes. Seminars in Immunology, 2002, 14, 19-26.	5.6	115
47	The serine kinase phosphoinositide-dependent kinase 1 (PDK1) regulates T cell development. Nature Immunology, 2004, 5, 539-545.	14.5	111
48	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, 5441-5450.	0.8	107
49	Protection of CD95-mediated apoptosis by activation of phosphatidylinositide 3-kinase and protein kinase B. European Journal of Immunology, 1998, 28, 57-69.	2.9	103
50	Protein Kinase D. Journal of Experimental Medicine, 2000, 191, 2075-2082.	8.5	103
51	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, 45-49.	2.9	100
52	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, 352-361.	14.5	95
53	Phosphoinositide 3-kinases in T lymphocyte activation. Current Opinion in Immunology, 2001, 13, 332-338.	5.5	92
54	Rapid Protein Kinase D Translocation in Response to G Protein-coupled Receptor Activation. Journal of Biological Chemistry, 2001, 276, 32616-32626.	3.4	92

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55	Different Functions of the GTPase Rho in Prothymocytes and Late Pre-T Cells. Immunity, 1997, 7, 163-174.	14.3	91
56	Intracellular Location and Cell Context-Dependent Function of Protein Kinase D. Immunity, 2003, 19, 491-501.	14.3	89
57	Control of pre-T cell proliferation and differentiation by the GTPase Rac-1. Nature Immunology, 2000, 1, 348-352.	14.5	83
58	LKB1 is essential for the proliferation of Tâ€cell progenitors and mature peripheral T cells. European Journal of Immunology, 2010, 40, 242-253.	2.9	81
59	Networking Rho Family GTPases in Lymphocytes. Immunity, 1998, 8, 395-401.	14.3	80
60	T-cell antigen receptor signal transduction. Immunology, 2002, 105, 369-374.	4.4	79
61	Serine-threonine kinases in TCR signaling. Nature Immunology, 2014, 15, 808-814.	14.5	79
62	GTPases in antigen receptor signalling. Current Opinion in Immunology, 1998, 10, 322-329.	5.5	74
63	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, 903-914.	8.5	74
64	Signaling in Lymphocyte Activation. Cold Spring Harbor Perspectives in Biology, 2015, 7, a018788.	5.5	74
65	Unique functions for protein kinase D1 and protein kinase D2 in mammalian cells. Biochemical Journal, 2010, 432, 153-163.	3.7	73
66	Phosphoinositide 3â€kinase and the mammalian target of rapamycin pathways control T cell migration. Annals of the New York Academy of Sciences, 2010, 1183, 149-157.	3.8	71
67	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, 5952-5962.	2.3	69
68	Phosphoproteomic Analyses of Interleukin 2 Signaling Reveal Integrated JAK Kinase-Dependent and -Independent Networks in CD8 + T Cells. Immunity, 2016, 45, 685-700.	14.3	68
69	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, 2441-2454.	8.5	67
70	Interleukin-2 shapes the cytotoxic T cell proteome and immune environmentâ€“sensing programs. Science Signaling, 2018, 11, .	3.6	67
71	Dynamic re-distribution of protein kinase D (PKD) as revealed by a GFP-PKD fusion protein: dissociation from PKD activation. FEBS Letters, 1999, 457, 515-521.	2.8	66
72	Protein Kinase D Is a Downstream Target of Protein Kinase CÎ¸. Biochemical and Biophysical Research Communications, 2002, 291, 444-452.	2.1	65

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73	Integrin Regulation by RhoA in Thymocytes. Journal of Immunology, 2005, 175, 350-357.	0.8	61
74	The Gtpase Rho Controls a P53-Dependent Survival Checkpoint during Thymopoiesis. Journal of Experimental Medicine, 2000, 192, 77-86.	8.5	59
75	A negative role for phosphoinositide 3-kinase in T-cell antigen receptor function. Current Biology, 1997, 7, 285-293.	3.9	56
76	Mitochondrial translation is required for sustained killing by cytotoxic T cells. Science, 2021, 374, eabe9977.	12.6	55
77	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.	6.4	54
78	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells. European Journal of Immunology, 1998, 28, 1877-1885.	2.9	52
79	The GTPase Rac-1 Controls Cell Fate in the Thymus by Diverting Thymocytes from Positive to Negative Selection. Immunity, 2001, 15, 703-713.	14.3	52
80	Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response. IScience, 2022, 25, 103827.	4.1	51
81	Protein kinase C mediates platelet secretion and thrombus formation through protein kinase D2. Blood, 2011, 118, 416-424.	1.4	49
82	Transgenic analysis of thymocyte signal transduction. Nature Reviews Immunology, 2002, 2, 20-27.	22.7	48
83	Rac-1 Regulates Nuclear Factor of Activated T Cells (NFAT) C1 Nuclear Translocation in Response to FcÎµ Receptor Type 1 Stimulation of Mast Cells. Journal of Experimental Medicine, 1998, 188, 527-537.	8.5	47
84	Environmental and Metabolic Sensors That Control T Cell Biology. Frontiers in Immunology, 2015, 6, 99.	4.8	45
85	Single Cell Glucose Uptake Assays: A Cautionary Tale. Immunometabolism, 2020, 2, e200029.	1.6	45
86	A New Role for the p85-Phosphatidylinositol 3-Kinase Regulatory Subunit Linking FRAP to p70 S6 Kinase Activation. Journal of Biological Chemistry, 2002, 277, 1500-1508.	3.4	41
87	Inhibition of Rho at different stages of thymocyte development gives different perspectives on Rho function. Current Biology, 1999, 9, 657-S1.	3.9	38
88	Approaches to Define Antigen Receptor-induced Serine Kinase Signal Transduction Pathways. Journal of Biological Chemistry, 2003, 278, 9267-9275.	3.4	38
89	Protein synthesis, degradation, and energy metabolism in T cell immunity. Cellular and Molecular Immunology, 2022, 19, 303-315.	10.5	38
90	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.	2.8	35

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91	ÂÂÂÂÂÂÂA type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDSÂÂÂ. Wellcome Open Research, 2021, 6, 38.	1.8	35
92	p56lck Signals for Regulating Thymocyte Development Can Be Distinguished by Their Dependency on Rho Function. Journal of Experimental Medicine, 1998, 188, 931-939.	8.5	34
93	Protein kinase D2 is a digital amplifier of T cell receptorâ€“stimulated diacylglycerol signaling in naÃ¯ve CD8 ⁺ T cells. Science Signaling, 2014, 7, ra99.	3.6	33
94	Adenosine-Mono-Phosphate-Activated Protein Kinase-Independent Effects of Metformin in T Cells. PLoS ONE, 2014, 9, e106710.	2.5	31
95	The Impact of KLF2 Modulation on the Transcriptional Program and Function of CD8 T Cells. PLoS ONE, 2013, 8, e77537.	2.5	30
96	Protein kinase C is not a downstream effector of p21ras in activated T cells. European Journal of Immunology, 1995, 25, 42-47.	2.9	29
97	ÂÂÂÂÂÂÂA type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDSÂÂÂ. Wellcome Open Research, 2021, 6, 38.	1.8	29
98	New insights into the regulation and function of serine/threonine kinases in T lymphocytes. Immunological Reviews, 2009, 228, 241-252.	6.0	27
99	Dual Phospholipase C/Diacylglycerol Requirement for Protein Kinase D1 Activation in Lymphocytes. Journal of Biological Chemistry, 2005, 280, 6245-6251.	3.4	26
100	IL-12 selectively regulates STAT4 via phosphatidylinositol 3-kinase and Ras-independent signal transduction pathways. European Journal of Immunology, 2000, 30, 1425-1434.	2.9	24
101	Temporal Differences in the Dependency on Phosphoinositide-Dependent Kinase 1 Distinguish the Development of Invariant VÎ±14 NKT Cells and Conventional T Cells. Journal of Immunology, 2010, 185, 5973-5982.	0.8	22
102	Protein kinase D enzymes are dispensable for proliferation, survival and antigen receptor-regulated NFÎºB activity in vertebrate B-cells. FEBS Letters, 2007, 581, 1377-1382.	2.8	21
103	Hypoxia drives murine neutrophil protein scavenging to maintain central carbon metabolism. Journal of Clinical Investigation, 2021, 131, .	8.2	21
104	Regulation and function of serine kinase networks in lymphocytes. Current Opinion in Immunology, 2003, 15, 294-298.	5.5	20
105	Protein kinase D2 has a restricted but critical role in T-cell antigen receptor signalling in mature T-cells. Biochemical Journal, 2012, 442, 649-659.	3.7	20
106	Identification of pro-interleukin 16 as a novel target of MAP kinases in activated T lymphocytes. European Journal of Immunology, 2004, 34, 587-597.	2.9	19
107	The Coordination of T-cell Function by Serine/Threonine Kinases. Cold Spring Harbor Perspectives in Biology, 2011, 3, a002261-a002261.	5.5	18
108	Differential Requirement for RhoA GTPase Depending on the Cellular Localization of Protein Kinase D. Journal of Biological Chemistry, 2006, 281, 25089-25096.	3.4	17

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109	Extracellular signal-regulated kinase (ERK) pathway control of CD8+ T cell differentiation. Biochemical Journal, 2021, 478, 79-98.	3.7	17
110	LKB1 Mediates the Development of Conventional and Innate T Cells via AMP-Dependent Kinase Autonomous Pathways. PLoS ONE, 2013, 8, e60217.	2.5	16
111	The role of serine/threonine kinases in T-cell activation. Current Opinion in Immunology, 2006, 18, 314-320.	5.5	15
112	Quantitative Phosphoproteomics of Cytotoxic T Cells to Reveal Protein Kinase D 2 Regulated Networks. Molecular and Cellular Proteomics, 2014, 13, 3544-3557.	3.8	15
113	Protein kinase <scp>D</scp> isoforms are dispensable for integrinâ€mediated lymphocyte adhesion and homing to lymphoid tissues. European Journal of Immunology, 2012, 42, 1316-1326.	2.9	13
114	Phosphoinositide-dependent kinase l (PDK1) haplo-insufficiency inhibits production of alpha/beta (Î±/Î²) but not gamma delta (Î³/Î´) T lymphocytes. FEBS Letters, 2006, 580, 2135-2140.	2.8	11
115	Antigen receptor regulation of phosphoinositide-dependent kinase 1 pathways during thymocyte development. FEBS Letters, 2006, 580, 5845-5850.	2.8	11
116	Quantitative Analyses Reveal How Hypoxia Reconfigures the Proteome of Primary Cytotoxic T Lymphocytes. Frontiers in Immunology, 2021, 12, 712402.	4.8	10
117	The RhoA transcriptional program in preâ€T cells. FEBS Letters, 2007, 581, 4309-4317.	2.8	9
118	Exploring the Biological Role of Kruppel-Like Factor 2 In Cytotoxic T Lymphocytes. Blood, 2010, 116, 2783-2783.	1.4	8
119	Phosphoinositide 3-Kinase p110 Delta Differentially Restrains and Directs NaÃ¯ve Versus Effector CD8+ÂT Cell Transcriptional Programs. Frontiers in Immunology, 2021, 12, 691997.	4.8	7
120	Phosphoinositideâ€dependent protein kinaseâ€1 (PDK1)â€independent activation of the protein kinase C substrate, protein kinase D. FEBS Letters, 2007, 581, 3494-3498.	2.8	6
121	Commentary Vav-1 and T cells. European Journal of Immunology, 2003, 33, 1070-1072.	2.9	5
122	The active inner life of naive T cells. Nature Immunology, 2020, 21, 827-828.	14.5	4
123	Involvement of phosphoinositide 3-kinase and Rac in membrane ruffling induced by IL-2 in T cells. European Journal of Immunology, 1998, 28, 1877-1885.	2.9	3
124	Move to metabolism. Nature Reviews Immunology, 2019, 19, 270-270.	22.7	2
125	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.	5.2	1
126	Of Mosaicism and Mechanisms: How JAK1 Goes Awry. Immunity, 2020, 53, 481-484.	14.3	0

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127	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.	5.2	0
128	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.	5.2	0