

# Karen E Anderson

## List of Publications by Year in descending order

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66  
papers

6,791  
citations

81900

39  
h-index

106344

65  
g-index

67  
all docs

67  
docs citations

67  
times ranked

8568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Kinase B Kinases That Mediate Phosphatidylinositol 3,4,5-Trisphosphate-Dependent Activation of Protein Kinase B. <i>Science</i> , 1998, 279, 710-714.	12.6	992
2	PI 3-kinase p110 $\beta$ : a new target for antithrombotic therapy. <i>Nature Medicine</i> , 2005, 11, 507-514.	30.7	555
3	PI4P and PI(4,5)P <sub>2</sub> Are Essential But Independent Lipid Determinants of Membrane Identity. <i>Science</i> , 2012, 337, 727-730.	12.6	435
4	PtdIns(3)P regulates the neutrophil oxidase complex by binding to the PX domain of p40phox. <i>Nature Cell Biology</i> , 2001, 3, 679-682.	10.3	389
5	Translocation of PDK-1 to the plasma membrane is important in allowing PDK-1 to activate protein kinase B. <i>Current Biology</i> , 1998, 8, 684-691.	3.9	334
6	Sequential activation of class IB and class IA PI3K is important for the primed respiratory burst of human but not murine neutrophils. <i>Blood</i> , 2005, 106, 1432-1440.	1.4	274
7	The Crystal Structure of the PX Domain from p40phox Bound to Phosphatidylinositol 3-Phosphate. <i>Molecular Cell</i> , 2001, 8, 829-839.	9.7	263
8	Quantification of PtdInsP3 molecular species in cells and tissues by mass spectrometry. <i>Nature Methods</i> , 2011, 8, 267-272.	19.0	246
9	SCFAs Induce Mouse Neutrophil Chemotaxis through the GPR43 Receptor. <i>PLoS ONE</i> , 2011, 6, e21205.	2.5	226
10	The cytotoxic T cell proteome and its shaping by the kinase mTOR. <i>Nature Immunology</i> , 2016, 17, 104-112.	14.5	192
11	Structure of Lipid Kinase p110 $\beta$ /p85 $\beta$ Elucidates an Unusual SH2-Domain-Mediated Inhibitory Mechanism. <i>Molecular Cell</i> , 2011, 41, 567-578.	9.7	161
12	PTEN Regulates PI(3,4)P <sub>2</sub> Signaling Downstream of Class I PI3K. <i>Molecular Cell</i> , 2017, 68, 566-580.e10.	9.7	149
13	Direct Effects of Caffeine and Theophylline on p110 $\beta$ and Other Phosphoinositide 3-Kinases. <i>Journal of Biological Chemistry</i> , 2002, 277, 37124-37130.	3.4	138
14	Functional drug screening reveals anticonvulsants as enhancers of mTOR $\alpha$ -independent autophagic killing of <i>Mycobacterium tuberculosis</i> through inositol depletion. <i>EMBO Molecular Medicine</i> , 2015, 7, 127-139.	6.9	137
15	PI3K $\beta$ Plays a Critical Role in Neutrophil Activation by Immune Complexes. <i>Science Signaling</i> , 2011, 4, ra23.	3.6	130
16	PtdIns3P binding to the PX domain of p40phox is a physiological signal in NADPH oxidase activation. <i>EMBO Journal</i> , 2006, 25, 4468-4478.	7.8	116
17	Essential role for phosphoinositide 3-kinase in shear-dependent signaling between platelet glycoprotein Ib/IX and integrin $\alpha$ IIb $\beta$ 3. <i>Blood</i> , 2002, 99, 151-158.	1.4	115
18	CD18-dependent activation of the neutrophil NADPH oxidase during phagocytosis of <i>Escherichia coli</i> or <i>Staphylococcus aureus</i> is regulated by class III but not class I or II PI3Ks. <i>Blood</i> , 2008, 112, 5202-5211.	1.4	81

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19	P-Rex1 and Vav1 Cooperate in the Regulation of Formyl-Methionyl-Leucyl-Phenylalanine-Dependent Neutrophil Responses. <i>Journal of Immunology</i> , 2011, 186, 1467-1476.	0.8	80
20	Identification of a Unique Co-operative Phosphoinositide 3-Kinase Signaling Mechanism Regulating Integrin $\alpha$ IIb $\beta$ 3 Adhesive Function in Platelets. <i>Journal of Biological Chemistry</i> , 2007, 282, 28648-28658.	3.4	78
21	Class I phosphoinositide 3-kinases. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 1028-1033.	2.8	73
22	Membrane Translocation of P-Rex1 Is Mediated by G Protein $\beta$ Subunits and Phosphoinositide 3-Kinase. <i>Journal of Biological Chemistry</i> , 2007, 282, 29967-29976.	3.4	72
23	SHIP1 and Lyn Kinase Negatively Regulate Integrin $\alpha$ IIb $\beta$ 3 Signaling in Platelets. <i>Journal of Biological Chemistry</i> , 2004, 279, 32196-32204.	3.4	71
24	A new approach to measuring phosphoinositides in cells by mass spectrometry. <i>Advances in Biological Regulation</i> , 2014, 54, 131-141.	2.3	70
25	Phosphoproteomic Analyses of Interleukin 2 Signaling Reveal Integrated JAK Kinase-Dependent and -Independent Networks in CD8 + T Cells. <i>Immunity</i> , 2016, 45, 685-700.	14.3	68
26	Suppression of Ventricular Arrhythmias During Ischemia-Reperfusion by Agents Inhibiting $\text{Ins}(1,4,5)\text{P}_3$ Release. <i>Circulation</i> , 1995, 91, 2712-2716.	1.6	68
27	The Basal Transcription Complex Component TAF3 Transduces Changes in Nuclear Phosphoinositides into Transcriptional Output. <i>Molecular Cell</i> , 2015, 58, 453-467.	9.7	67
28	Inactivation of the Class II PI3K-C2 $\beta$ Potentiates Insulin Signaling and Sensitivity. <i>Cell Reports</i> , 2015, 13, 1881-1894.	6.4	66
29	Lysophosphatidylinositol-Acyltransferase-1 (LPIAT1) Is Required to Maintain Physiological Levels of PtdIns and PtdInsP2 in the Mouse. <i>PLoS ONE</i> , 2013, 8, e58425.	2.5	65
30	Regulation of PTEN inhibition by the pleckstrin homology domain of P-REX2 during insulin signaling and glucose homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 155-160.	7.1	61
31	A module for Rac temporal signal integration revealed with optogenetics. <i>Journal of Cell Biology</i> , 2017, 216, 2515-2531.	5.2	61
32	Inositol Phosphate Release and Metabolism During Myocardial Ischemia and Reperfusion in Rat Heart. <i>Circulation Research</i> , 1995, 76, 261-268.	4.5	59
33	GPCR activation of Ras and PI3K $\beta$ in neutrophils depends on PLC $\beta$ 3 and the RasGEF RasGRP4. <i>EMBO Journal</i> , 2012, 31, 3118-3129.	7.8	58
34	PtdIns3P and Rac direct the assembly of the NADPH oxidase on a novel, pre-phagosomal compartment during FcR-mediated phagocytosis in primary mouse neutrophils. <i>Blood</i> , 2010, 116, 4978-4989.	1.4	55
35	The GTPase-activating protein ARAP3 regulates chemotaxis and adhesion-dependent processes in neutrophils. <i>Blood</i> , 2011, 118, 1087-1098.	1.4	54
36	Coincident signals from GPCRs and receptor tyrosine kinases are uniquely transduced by PI3K $\beta$ in myeloid cells. <i>Science Signaling</i> , 2016, 9, ra82.	3.6	53

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37	P-Rex1 directly activates RhoG to regulate GPCR-driven Rac signalling and actin polarity in neutrophils. <i>Journal of Cell Science</i> , 2014, 127, 2589-600.	2.0	50
38	cAMP Signaling of Adenylate Cyclase Toxin Blocks the Oxidative Burst of Neutrophils through Epac-Mediated Inhibition of Phospholipase C Activity. <i>Journal of Immunology</i> , 2017, 198, 1285-1296.	0.8	46
39	Inositol Phosphate Release and Metabolism in Rat Left Atria. <i>Circulation Research</i> , 1995, 76, 252-260.	4.5	43
40	The regulatory subunits of PI3K $\beta$ control distinct neutrophil responses. <i>Science Signaling</i> , 2015, 8, ra8.	3.6	42
41	Phosphorylation of threonine 154 in p40phox is an important physiological signal for activation of the neutrophil NADPH oxidase. <i>Blood</i> , 2010, 116, 6027-6036.	1.4	40
42	PLD1 rather than PLD2 regulates phorbol-ester-, adhesion-dependent and Fc $\gamma$ 3-receptor-stimulated ROS production in neutrophils. <i>Journal of Cell Science</i> , 2011, 124, 1973-1983.	2.0	36
43	In-depth PtdIns(3,4,5)P3 signalosome analysis identifies DAPP1 as a negative regulator of GPVI-driven platelet function. <i>Blood Advances</i> , 2017, 1, 918-932.	5.2	34
44	Mechanism of activation of SGK3 by growth factors via the Class 1 and Class 3 PI3Ks. <i>Biochemical Journal</i> , 2018, 475, 117-135.	3.7	33
45	Src Family Kinases Mediate Receptor-stimulated, Phosphoinositide 3-Kinase-dependent, Tyrosine Phosphorylation of Dual Adaptor for Phosphotyrosine and 3-Phosphoinositides-1 in Endothelial and B Cell Lines. <i>Journal of Biological Chemistry</i> , 2001, 276, 42767-42773.	3.4	32
46	SGK1 Is a Critical Component of an AKT-Independent Pathway Essential for PI3K-Mediated Tumor Development and Maintenance. <i>Cancer Research</i> , 2017, 77, 6914-6926.	0.9	32
47	Use of the GRP1 PH domain as a tool to measure the relative levels of PtdIns(3,4,5)P3 through a protein-lipid overlay approach. <i>Journal of Lipid Research</i> , 2007, 48, 726-732.	4.2	27
48	The hexosamine biosynthesis pathway and O $\beta$ -glucosylation maintain insulin $\alpha$ -stimulated $\pi$ 3K $\alpha$ -PKB phosphorylation and tumour cell growth after short-term glucose deprivation. <i>FEBS Journal</i> , 2014, 281, 3591-3608.	4.7	26
49	The Parkinson's gene PINK1 activates Akt via PINK1 kinase-dependent regulation of the phospholipid PI(3,4,5)P3. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	26
50	In B cells, phosphatidylinositol 5-phosphate 4-kinase $\beta$ synthesizes PI(4,5)P2 to impact mTORC2 and Akt signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10571-10576.	7.1	21
51	Investigating the effect of arachidonate supplementation on the phosphoinositide content of MCF10a breast epithelial cells. <i>Advances in Biological Regulation</i> , 2016, 62, 18-24.	2.3	20
52	Genetic deletion of Nox4 enhances cancerogen-induced formation of solid tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	20
53	Phosphoinositide 3-OH Kinase Regulates Integrin-Dependent Processes in Neutrophils by Signaling through Its Effector ARAP3. <i>Journal of Immunology</i> , 2013, 190, 381-391.	0.8	19
54	G $\beta$ 3 is a direct regulator of endogenous p101/p110 $\beta$ and p84/p110 $\beta$ PI3K $\beta$ complexes in mouse neutrophils. <i>Science Signaling</i> , 2020, 13, .	3.6	19

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55	Kinase-independent synthesis of 3-phosphorylated phosphoinositides by a phosphotransferase. <i>Nature Cell Biology</i> , 2022, 24, 708-722.	10.3	18
56	Fyn and TOM1L1 are recruited to clathrin-coated pits and regulate Akt signaling. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	17
57	Inositol Phosphates in Rat Atria and the Importance of the Extraction Procedure. <i>Journal of Molecular and Cellular Cardiology</i> , 1993, 25, 215-227.	1.9	13
58	Signaling via Class IA Phosphoinositide 3-Kinases (PI3K) in Human, Breast-Derived Cell Lines. <i>PLoS ONE</i> , 2013, 8, e75045.	2.5	12
59	The norepinephrine-stimulated inositol phosphate response in human atria. <i>Journal of Molecular and Cellular Cardiology</i> , 1995, 27, 2415-2419.	1.9	11
60	The Isolation of Adult Rat Cardiomyocytes Activates Inositol (1,4,5) Trisphosphate 3â€™Kinase Activity. <i>Journal of Molecular and Cellular Cardiology</i> , 1993, 25, 1149-1159.	1.9	7
61	Inositol 1,4,5-trisphosphate receptor function in neonatal cardiomyocytes. <i>European Journal of Pharmacology</i> , 1994, 268, 275-278.	2.6	7
62	Lyophilization can generate artifacts in chromatographic profiles of inositol phosphates. <i>Biomedical Applications</i> , 1993, 619, 121-126.	1.7	5
63	INOSITOL-1,4,5-TRISPHOSPHATE [INS(1,4,5)P3] AND INS(1,4,5)P3RECEPTOR CONCENTRATIONS IN HEART TISSUES. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1994, 21, 257-260.	1.9	4
64	The 5-Phosphatase SHIP2 Promotes Neutrophil Chemotaxis and Recruitment. <i>Frontiers in Immunology</i> , 2021, 12, 671756.	4.8	4
65	STIMULATION OF PHOSPHATIDYLINOSITOL TURNOVER IN ADULT RAT LEFT ATRIA DOES NOT INVOLVE RELEASE OF INOSITOL (1,4,5) TRISPHOSPHATE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1993, 20, 335-338.	1.9	3
66	ISOLATION OF ADULT CARDIOMYOCYTES INITIATES A RETURN OF INOSITOL TRISPHOSPHATE PHOSPHORYLATING ACTIVITY. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1992, 19, 388-391.	1.9	0