

Klaus Okkenhaug

List of Publications by Year in descending order

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118
papers

17,742
citations

26610

56
h-index

21521

114
g-index

130
all docs

130
docs citations

130
times ranked

21359
citing authors

#	ARTICLE	IF	CITATIONS
1	Requirement of bic/microRNA-155 for Normal Immune Function. <i>Science</i> , 2007, 316, 608-611.	6.0	1,786
2	Cellular Function of Phosphoinositide 3-Kinases: Implications for Development, Immunity, Homeostasis, and Cancer. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 615-675.	4.0	1,047
3	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. <i>Science</i> , 2009, 326, 140-144.	6.0	1,009
4	Impaired B and T Cell Antigen Receptor Signaling in p110delta PI 3-Kinase Mutant Mice. <i>Science</i> , 2002, 297, 1031-4.	6.0	836
5	PI3K in lymphocyte development, differentiation and activation. <i>Nature Reviews Immunology</i> , 2003, 3, 317-330.	10.6	690
6	Phosphoinositide 3-Kinase $\hat{\gamma}$ Gene Mutation Predisposes to Respiratory Infection and Airway Damage. <i>Science</i> , 2013, 342, 866-871.	6.0	541
7	PDK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2012, 209, 2441-2453.	4.2	518
8	Evidence for lifespan extension and delayed age-related biomarkers in insulin receptor substrate 1 null mice. <i>FASEB Journal</i> , 2008, 22, 807-818.	0.2	487
9	Ionic immune suppression within the tumour microenvironment limits T cell effector function. <i>Nature</i> , 2016, 537, 539-543.	13.7	479
10	Inactivation of PI(3)K p110 $\hat{\gamma}$ breaks regulatory T-cell-mediated immune tolerance to cancer. <i>Nature</i> , 2014, 510, 407-411.	13.7	450
11	Critical role for the p110 $\hat{\alpha}$ phosphoinositide-3-OH kinase in growth and metabolic regulation. <i>Nature</i> , 2006, 441, 366-370.	13.7	439
12	Clinical spectrum and features of activated phosphoinositide 3-kinase $\hat{\gamma}$ syndrome: A large patient cohort study. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 597-606.e4.	1.5	377
13	Essential role for the p110 $\hat{\gamma}$ phosphoinositide 3-kinase in the allergic response. <i>Nature</i> , 2004, 431, 1007-1011.	13.7	369
14	Phosphatidylinositol-3-OH kinase and nutrient-sensing mTOR pathways control T lymphocyte trafficking. <i>Nature Immunology</i> , 2008, 9, 513-521.	7.0	364
15	Cutting Edge: The Foxp3 Target miR-155 Contributes to the Development of Regulatory T Cells. <i>Journal of Immunology</i> , 2009, 182, 2578-2582.	0.4	350
16	Signaling by the Phosphoinositide 3-Kinase Family in Immune Cells. <i>Annual Review of Immunology</i> , 2013, 31, 675-704.	9.5	349
17	The p110 $\hat{\beta}$ isoform of phosphoinositide 3-kinase signals downstream of G protein-coupled receptors and is functionally redundant with p110 $\hat{\alpha}$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8292-8297.	3.3	317
18	Cutting Edge: The Phosphoinositide 3-Kinase p110 $\hat{\gamma}$ Is Critical for the Function of CD4+CD25+Foxp3+ Regulatory T Cells. <i>Journal of Immunology</i> , 2006, 177, 6598-6602.	0.4	280

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19	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.	0.6	274
20	PI3K $\hat{1}$ and primary immunodeficiencies. <i>Nature Reviews Immunology</i> , 2016, 16, 702-714.	10.6	259
21	PI3K inhibitors in inflammation, autoimmunity and cancer. <i>Current Opinion in Pharmacology</i> , 2015, 23, 82-91.	1.7	258
22	Protein Kinase B Controls Transcriptional Programs that Direct Cytotoxic T Cell Fate but Is Dispensable for T Cell Metabolism. <i>Immunity</i> , 2011, 34, 224-236.	6.6	235
23	PI3K inhibitors are finally coming of age. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 741-769.	21.5	222
24	BACH2 regulates CD8+ T cell differentiation by controlling access of AP-1 factors to enhancers. <i>Nature Immunology</i> , 2016, 17, 851-860.	7.0	221
25	Cutting Edge: Differential Roles for Phosphoinositide 3-Kinases, p110 $\hat{3}$ and p110 $\hat{1}$, in Lymphocyte Chemotaxis and Homing. <i>Journal of Immunology</i> , 2004, 173, 2236-2240.	0.4	217
26	Targeting PI3K in Cancer: Impact on Tumor Cells, Their Protective Stroma, Angiogenesis, and Immunotherapy. <i>Cancer Discovery</i> , 2016, 6, 1090-1105.	7.7	217
27	Key role of the p110 $\hat{1}$ isoform of PI3K in B-cell antigen and IL-4 receptor signaling: comparative analysis of genetic and pharmacologic interference with p110 $\hat{1}$ function in B cells. <i>Blood</i> , 2006, 107, 642-650.	0.6	202
28	Phosphoinositide 3-Kinase Activity in T Cells Regulates the Magnitude of the Germinal Center Reaction. <i>Journal of Immunology</i> , 2010, 185, 4042-4052.	0.4	200
29	Socs1 binds to multiple signalling proteins and suppresses Steel factor-dependent proliferation. <i>EMBO Journal</i> , 1999, 18, 904-915.	3.5	192
30	The p110 $\hat{1}$ Isoform of Phosphoinositide 3-Kinase Controls Clonal Expansion and Differentiation of Th Cells. <i>Journal of Immunology</i> , 2006, 177, 5122-5128.	0.4	192
31	A point mutation in CD28 distinguishes proliferative signals from survival signals. <i>Nature Immunology</i> , 2001, 2, 325-332.	7.0	187
32	Regulatory T Cell Migration Is Dependent on Glucokinase-Mediated Glycolysis. <i>Immunity</i> , 2017, 47, 875-889.e10.	6.6	181
33	The PI3K Isoforms p110 $\hat{1}$ and p110 $\hat{2}$ Are Essential for Pre-B Cell Receptor Signaling and B Cell Development. <i>Science Signaling</i> , 2010, 3, ra60.	1.6	179
34	PI3K p110 $\hat{1}$ regulates T-cell cytokine production during primary and secondary immune responses in mice and humans. <i>Blood</i> , 2010, 115, 2203-2213.	0.6	174
35	P-Rex1 Regulates Neutrophil Function. <i>Current Biology</i> , 2005, 15, 1867-1873.	1.8	161
36	PI3K $\hat{2}$ Plays a Critical Role in Neutrophil Activation by Immune Complexes. <i>Science Signaling</i> , 2011, 4, ra23.	1.6	130

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37	Gene Targeting in Mice: A Review. <i>Methods in Molecular Biology</i> , 2013, 1064, 315-336.	0.4	128
38	Obesity-Induced Metabolic Stress Leads to Biased Effector Memory CD4 + T Cell Differentiation via PI3K p110 β -Akt-Mediated Signals. <i>Cell Metabolism</i> , 2017, 25, 593-609.	7.2	124
39	CD28 provides T-cell costimulation and enhances PI3K activity at the immune synapse independently of its capacity to interact with the p85/p110 heterodimer. <i>Blood</i> , 2008, 111, 1464-1471.	0.6	121
40	Antigen receptor signalling: a distinctive role for the p110 β isoform of PI3K. <i>Trends in Immunology</i> , 2007, 28, 80-87.	2.9	114
41	Inactivation of PI3K δ and PI3K γ distorts T-cell development and causes multiple organ inflammation. <i>Blood</i> , 2007, 110, 2940-2947.	0.6	113
42	MAPK, Phosphatidylinositol 3-Kinase, and Mammalian Target of Rapamycin Pathways Converge at the Level of Ribosomal Protein S6 Phosphorylation to Control Metabolic Signaling in CD8 T Cells. <i>Journal of Immunology</i> , 2009, 183, 7388-7397.	0.4	108
43	Role of the phosphoinositide 3-kinase p110 β in generation of type 2 cytokine responses and allergic airway inflammation. <i>European Journal of Immunology</i> , 2007, 37, 416-424.	1.6	106
44	The PI3K p110 β Isoform Inhibitor Idelalisib Preferentially Inhibits Human Regulatory T Cell Function. <i>Journal of Immunology</i> , 2019, 202, 1397-1405.	0.4	104
45	Compensation between CSF1R+ macrophages and Foxp3+ Treg cells drives resistance to tumor immunotherapy. <i>JCI Insight</i> , 2018, 3, .	2.3	90
46	Class I Phosphoinositide 3-Kinase p110 β Is Required for Apoptotic Cell and Fc γ 3 Receptor-mediated Phagocytosis by Macrophages. <i>Journal of Biological Chemistry</i> , 2003, 278, 38437-38442.	1.6	83
47	The p110 β Isoform of Phosphatidylinositol 3-Kinase Controls Susceptibility to <i>Leishmania major</i> by Regulating Expansion and Tissue Homing of Regulatory T Cells. <i>Journal of Immunology</i> , 2009, 183, 1921-1933.	0.4	83
48	The Therapeutic Potential for PI3K Inhibitors in Autoimmune Rheumatic Diseases. <i>Open Rheumatology Journal</i> , 2012, 6, 245-258.	0.1	82
49	Physiologic and aberrant regulation of memory T-cell trafficking by the costimulatory molecule CD28. <i>Blood</i> , 2007, 109, 2968-2977.	0.6	74
50	p110 α and p110 β isoforms of phosphoinositide 3-kinase differentially regulate natural killer cell migration in health and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5795-5800.	3.3	74
51	CCL21 mediates CD4+ T-cell costimulation via a DOCK2/Rac-dependent pathway. <i>Blood</i> , 2009, 114, 580-588.	0.6	74
52	The PI3K p110 β Regulates Expression of CD38 on Regulatory T Cells. <i>PLoS ONE</i> , 2011, 6, e17359.	1.1	73
53	Blockade of Phosphatidylinositol 3-Kinase (PI3K) β or PI3K δ Reduces IL-17 and Ameliorates Imiquimod-Induced Psoriasis-like Dermatitis. <i>Journal of Immunology</i> , 2012, 189, 4612-4620.	0.4	71
54	Genetic or pharmaceutical blockade of p110 β phosphoinositide 3-kinase enhances IgE production. <i>Journal of Allergy and Clinical Immunology</i> , 2008, 122, 811-819.e2.	1.5	67

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55	Grb2 Forms an Inducible Protein Complex with CD28 through a Src Homology 3 Domain-Proline Interaction. <i>Journal of Biological Chemistry</i> , 1998, 273, 21194-21202.	1.6	63
56	Cross Talk between Phosphatidylinositol 3-Kinase and Cyclic AMP (cAMP)-Protein Kinase A Signaling Pathways at the Level of a Protein Kinase B/ β -Arrestin/cAMP Phosphodiesterase 4 Complex. <i>Molecular and Cellular Biology</i> , 2010, 30, 1660-1672.	1.1	61
57	CD28 Regulates the Translation of Bcl-xL via the Phosphatidylinositol 3-Kinase/Mammalian Target of Rapamycin Pathway. <i>Journal of Immunology</i> , 2005, 174, 180-194.	0.4	58
58	Ig gene-like molecule CD31 plays a nonredundant role in the regulation of T-cell immunity and tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19461-19466.	3.3	57
59	PI3K γ hyper-activation promotes development of B α cells that exacerbate <i>Streptococcus pneumoniae</i> infection in an antibody-independent manner. <i>Nature Communications</i> , 2018, 9, 3174.	5.8	56
60	PI3Ks in Lymphocyte Signaling and Development. <i>Current Topics in Microbiology and Immunology</i> , 2010, 346, 57-85.	0.7	55
61	Tumors induce de novo steroid biosynthesis in T cells to evade immunity. <i>Nature Communications</i> , 2020, 11, 3588.	5.8	54
62	T cell receptor α -induced phosphoinositide-3-kinase p110 γ activity is required for T cell localization to antigenic tissue in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 1154-64.	3.9	49
63	The transcription factor BACH2 promotes tumor immunosuppression. <i>Journal of Clinical Investigation</i> , 2016, 126, 599-604.	3.9	49
64	Cowden's syndrome with immunodeficiency. <i>Journal of Medical Genetics</i> , 2015, 52, 856-859.	1.5	48
65	Role of the p110 γ PI 3-kinase in integrin and ITAM receptor signalling in platelets. <i>Platelets</i> , 2005, 16, 191-202.	1.1	47
66	BACH2 drives quiescence and maintenance of resting Treg cells to promote homeostasis and cancer immunosuppression. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	47
67	Cholesterol metabolism drives regulatory B cell IL-10 through provision of geranylgeranyl pyrophosphate. <i>Nature Communications</i> , 2020, 11, 3412.	5.8	47
68	Idelalisib α -targeting PI3K γ in patients with B-cell malignancies. <i>Nature Reviews Clinical Oncology</i> , 2014, 11, 184-186.	12.5	46
69	PI3K Signaling in Normal B Cells and Chronic Lymphocytic Leukemia (CLL). <i>Current Topics in Microbiology and Immunology</i> , 2015, 393, 123-142.	0.7	46
70	CCR8 marks highly suppressive Treg cells within tumours but is dispensable for their accumulation and suppressive function. <i>Immunology</i> , 2021, 163, 512-520.	2.0	46
71	Requirement for Phosphoinositide 3-Kinase p110 γ Signaling in B Cell Antigen Receptor-Mediated Antigen Presentation. <i>Journal of Immunology</i> , 2007, 178, 2328-2335.	0.4	45
72	PI3K induces B-cell development and regulates B cell identity. <i>Scientific Reports</i> , 2018, 8, 1327.	1.6	43

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73	IL-21 Promotes CD4 T Cell Responses by Phosphatidylinositol 3-Kinase-Dependent Upregulation of CD86 on B Cells. <i>Journal of Immunology</i> , 2014, 192, 2195-2201.	0.4	42
74	Does the PI3K pathway promote or antagonize regulatory T cell development and function?. <i>Frontiers in Immunology</i> , 2012, 3, 244.	2.2	38
75	Phosphoinositide 3-kinase $\hat{\nu}$ inhibition promotes antitumor responses but antagonizes checkpoint inhibitors. <i>JCI Insight</i> , 2018, 3, .	2.3	38
76	Rules of engagement: distinct functions for the four class I PI3K catalytic isoforms in immunity. <i>Annals of the New York Academy of Sciences</i> , 2013, 1280, 24-26.	1.8	37
77	Intermittent PI3K $\hat{\nu}$ inhibition sustains anti-tumour immunity and curbs irAEs. <i>Nature</i> , 2022, 605, 741-746.	13.7	36
78	Gene-targeting reveals physiological roles and complex regulation of the phosphoinositide 3-kinases. <i>Archives of Biochemistry and Biophysics</i> , 2003, 414, 13-18.	1.4	34
79	A two-signal model for T cell trafficking. <i>Trends in Immunology</i> , 2007, 28, 267-273.	2.9	34
80	PI3K $\hat{\nu}$ Regulates the Magnitude of CD8+ T Cell Responses after Challenge with <i>Listeria monocytogenes</i> . <i>Journal of Immunology</i> , 2015, 195, 3206-3217.	0.4	32
81	Pten Loss in CD4 T Cells Enhances Their Helper Function but Does Not Lead to Autoimmunity or Lymphoma. <i>Journal of Immunology</i> , 2012, 188, 5935-5943.	0.4	31
82	PI3K δ enhances axonal PIP ₃ to support axon regeneration in the adult CNS. <i>EMBO Molecular Medicine</i> , 2020, 12, e11674.	3.3	31
83	Phosphoinositide 3-kinase $\hat{\nu}$ is a regulatory T cell target in cancer immunotherapy. <i>Immunology</i> , 2019, 157, 210-218.	2.0	30
84	Immunodeficiency, autoimmune thrombocytopenia and enterocolitis caused by autosomal recessive deficiency of PIK3CD-encoded phosphoinositide 3-kinase $\hat{\nu}$. <i>Haematologica</i> , 2019, 104, e483-e486.	1.7	26
85	C5a impairs phagosomal maturation in the neutrophil through phosphoproteomic remodeling. <i>JCI Insight</i> , 2020, 5, .	2.3	26
86	Class IA PI3Ks regulate subcellular and functional dynamics of IDO1. <i>EMBO Reports</i> , 2020, 21, e49756.	2.0	24
87	Intravital Imaging of Adoptive T-Cell Morphology, Mobility and Trafficking Following Immune Checkpoint Inhibition in a Mouse Melanoma Model. <i>Frontiers in Immunology</i> , 2020, 11, 1514.	2.2	23
88	PI3K Signaling in B Cell and T Cell Biology. <i>Frontiers in Immunology</i> , 2014, 5, 557.	2.2	22
89	PI3K $\hat{\nu}$ promotes CD4 ⁺ T cell interactions with antigen-presenting cells by increasing LFA $\hat{\nu}$ binding to ICAM $\hat{\nu}$. <i>Immunology and Cell Biology</i> , 2016, 94, 486-495.	1.0	19
90	Loss of Phosphatidylinositol 3-Kinase Activity in Regulatory T Cells Leads to Neuronal Inflammation. <i>Journal of Immunology</i> , 2020, 205, 78-89.	0.4	18

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91	Topoisomerase 2 ^β mutation impairs early B-cell development. <i>Blood</i> , 2020, 135, 1497-1501.	0.6	18
92	Two Birds with One Stone: Dual p110 ^α and p110 ^β Inhibition. <i>Chemistry and Biology</i> , 2013, 20, 1309-1310.	6.2	17
93	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase P110 ^α Prevents Chronic Rejection of Heart Allografts. <i>PLoS ONE</i> , 2012, 7, e32892.	1.1	13
94	Immunomodulation of Selective Naive T Cell Functions by p110 ^α Inactivation Improves the Outcome of Mismatched Cell Transplantation. <i>Cell Reports</i> , 2015, 10, 702-710.	2.9	12
95	PI3K ^γ Forms Distinct Multiprotein Complexes at the TCR Signalosome in Na ⁺ -ve and Differentiated CD4 ⁺ T Cells. <i>Frontiers in Immunology</i> , 2021, 12, 631271.	2.2	12
96	PI3K in T Cell Adhesion and Trafficking. <i>Frontiers in Immunology</i> , 2021, 12, 708908.	2.2	12
97	Proliferative signals mediated by CD28 superagonists require the exchange factor Vav1 but not phosphoinositide 3-kinase in primary peripheral T cells. <i>European Journal of Immunology</i> , 2008, 38, 2528-2533.	1.6	11
98	Inhibition of Phosphoinositide-3-Kinase Signaling Promotes the Stem Cell State of Trophoblast. <i>Stem Cells</i> , 2019, 37, 1307-1318.	1.4	10
99	A Protocol for Construction of Gene Targeting Vectors and Generation of Homologous Recombinant Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2013, 1064, 337-354.	0.4	9
100	Targeting PI3K ^γ function for amelioration of murine chronic graft-versus-host disease. <i>American Journal of Transplantation</i> , 2019, 19, 1820-1830.	2.6	9
101	Non-Invasive Multiphoton Imaging of Islets Transplanted Into the Pinna of the NOD Mouse Ear Reveals the Immediate Effect of Anti-CD3 Treatment in Autoimmune Diabetes. <i>Frontiers in Immunology</i> , 2018, 9, 1006.	2.2	8
102	The GPCR adaptor protein norbin suppresses the neutrophil-mediated immunity of mice to pneumococcal infection. <i>Blood Advances</i> , 2021, 5, 3076-3091.	2.5	8
103	Oncogenic PI3K ^γ promotes multipotency in breast epithelial cells. <i>Science Signaling</i> , 2015, 8, pe3.	1.6	4
104	Inhibition of Phosphoinositide 3-Kinase p110 ^δ Does Not Affect T Cell Driven Development of Type 1 Diabetes Despite Significant Effects on Cytokine Production. <i>PLoS ONE</i> , 2016, 11, e0146516.	1.1	4
105	Activated PI3K ^γ syndrome, an immunodeficiency disorder, leads to sensorimotor deficits recapitulated in a murine model. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 18, 100377.	1.3	4
106	Acute Streptococcus pneumoniae lung infection: Mouse model and characterisation of the immune response. <i>Protocol Exchange</i> , 0, , .	0.3	3
107	A cell-based bioluminescence assay reveals dose-dependent and contextual repression of AP-1-driven gene expression by BACH2. <i>Scientific Reports</i> , 2020, 10, 18902.	1.6	2
108	PI3K p110 ^α Is Expressed by gp38 ⁺ CD31 ⁺ and gp38 ⁺ CD31 ⁺ Spleen Stromal Cells and Regulates Their CCL19, CCL21, and LT1 ² R mRNA Levels. <i>PLoS ONE</i> , 2013, 8, e72960.	1.1	2

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109	Editorial: Lipid Signaling in T Cell Development and Function. <i>Frontiers in Immunology</i> , 2015, 6, 410.	2.2	1
110	T5â€¦Complement protein c5a induces prolonged neutrophil dysfunction in a clinically relevant model of human bacteraemia. , 2017, , .		1
111	How to resist PI3KÎ inhibition: activate MAPK!. <i>Blood</i> , 2021, 138, 3-4.	0.6	1
112	PK1 regulation of mTOR and hypoxia-inducible factor 1 integrate metabolism and migration of CD8⁺T cells. <i>Journal of Cell Biology</i> , 2012, 199, i8-i8.	2.3	1
113	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase p110Î Prevents Chronic Rejection of Heart Allografts. <i>Transplantation</i> , 2012, 94, 301.	0.5	0
114	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase p110Î Prevents Chronic Rejection of Heart Allografts. <i>Transplantation</i> , 2012, 94, 443.	0.5	0
115	MO064TISSUE-RESIDENT B CELLS DETERMINE SUSCEPTIBILITY TO URINARY TRACT INFECTION BY ORCHESTRATING MACROPHAGE POLARISATION. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, .	0.4	0
116	CD28. The AFCS-nature Molecule Pages, 0, , .	0.2	0
117	Abstract A86: Inactivation of p110delta PI3K releases potent antitumor immunity.. , 2013, , .		0
118	PI3K. , 2014, , 851-854.		0