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	Intermittent PI3KÎ´ inhibition sustains anti-tumour immunity and curbs irAEs. Nature, 2022, 605, 741-746.	13.7	36
2	PI3KÎ´ Forms Distinct Multiprotein Complexes at the TCR Signalosome in NaÃ¯ve and Differentiated CD4+ T Cells. Frontiers in Immunology, 2021, 12, 631271.	2.2	12
3	How to resist PI3KÎ´ inhibition: activate MAPK!. Blood, 2021, 138, 3-4.	0.6	1
4	CCR8 marks highly suppressive Treg cells within tumours but is dispensable for their accumulation and suppressive function. Immunology, 2021, 163, 512-520.	2.0	46
5	PI3K inhibitors are finally coming of age. Nature Reviews Drug Discovery, 2021, 20, 741-769.	21.5	222
6	PI3K in T Cell Adhesion and Trafficking. Frontiers in Immunology, 2021, 12, 708908.	2.2	12
7	The GPCR adaptor protein norbin suppresses the neutrophil-mediated immunity of mice to pneumococcal infection. Blood Advances, 2021, 5, 3076-3091.	2.5	8
8	Activated PI3KÎ´ syndrome, an immunodeficiency disorder, leads to sensorimotor deficits recapitulated in a murine model. Brain, Behavior, & Immunity - Health, 2021, 18, 100377.	1.3	4
9	Tumors induce de novo steroid biosynthesis in T cells to evade immunity. Nature Communications, 2020, 11, 3588.	5.8	54
10	Intravital Imaging of Adoptive T-Cell Morphology, Mobility and Trafficking Following Immune Checkpoint Inhibition in a Mouse Melanoma Model. Frontiers in Immunology, 2020, 11, 1514.	2.2	23
11	MO064TISSUE-RESIDENT B CELLS DETERMINE SUSCEPTIBILITY TO URINARY TRACT INFECTION BY ORCHESTRATING MACROPHAGE POLARISATION. Nephrology Dialysis Transplantation, 2020, 35, .	0.4	0
12	BACH2 drives quiescence and maintenance of resting Treg cells to promote homeostasis and cancer immunosuppression. Journal of Experimental Medicine, 2020, 217, .	4.2	47
13	A cell-based bioluminescence assay reveals dose-dependent and contextual repression of AP-1-driven gene expression by BACH2. Scientific Reports, 2020, 10, 18902.	1.6	2
14	Loss of Phosphatidylinositol 3-Kinase Activity in Regulatory T Cells Leads to Neuronal Inflammation. Journal of Immunology, 2020, 205, 78-89.	0.4	18
15	Topoisomerase 2Î² mutation impairs early B-cell development. Blood, 2020, 135, 1497-1501.	0.6	18
16	Cholesterol metabolism drives regulatory B cell IL-10 through provision of geranylgeranyl pyrophosphate. Nature Communications, 2020, 11, 3412.	5.8	47
17	C5a impairs phagosomal maturation in the neutrophil through phosphoproteomic remodeling. JCI Insight, 2020, 5, .	2.3	26
18	Class IA PI3Ks regulate subcellular and functional dynamics of IDO1. EMBO Reports, 2020, 21, e49756.	2.0	24

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19	<scp>PI</scp> 3â€kinase delta enhances axonal <scp>PIP</scp> ₃ to support axon regeneration in the adult <scp>CNS</scp>. EMBO Molecular Medicine, 2020, 12, e11674.	3.3	31
20	The PI3K p110Î´ Isoform Inhibitor Idelalisib Preferentially Inhibits Human Regulatory T Cell Function. Journal of Immunology, 2019, 202, 1397-1405.	0.4	104
21	Inhibition of Phosphoinositide-3-Kinase Signaling Promotes the Stem Cell State of Trophoblast. Stem Cells, 2019, 37, 1307-1318.	1.4	10
22	Phosphoinositide 3â€kinaseÂÎ´is a regulatory Tâ€cell target in cancer immunotherapy. Immunology, 2019, 157, 210-218.	2.0	30
23	Immunodeficiency, autoimmune thrombocytopenia and enterocolitis caused by autosomal recessive deficiency of PIK3CD-encoded phosphoinositide 3-kinase Î´. Haematologica, 2019, 104, e483-e486.	1.7	26
24	Targeting PI3KÎ´ function for amelioration of murine chronic graft-versus-host disease. American Journal of Transplantation, 2019, 19, 1820-1830.	2.6	9
25	PI3K induces B-cell development and regulates B cell identity. Scientific Reports, 2018, 8, 1327.	1.6	43
26	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. Frontiers in Immunology, 2018, 9, 1006.	2.2	8
27	PI3KÎ´ hyper-activation promotes development of BÂcells that exacerbate Streptococcus pneumoniae infection in an antibody-independent manner. Nature Communications, 2018, 9, 3174.	5.8	56
28	Phosphoinositide 3-kinase Î´ inhibition promotes antitumor responses but antagonizes checkpoint inhibitors. JCI Insight, 2018, 3, .	2.3	38
29	Compensation between CSF1R+ macrophages and Foxp3+ Treg cells drives resistance to tumor immunotherapy. JCI Insight, 2018, 3, .	2.3	90
30	Obesity-Induced Metabolic Stress Leads to Biased Effector Memory CD4 + T Cell Differentiation via PI3K p110Î´-Akt-Mediated Signals. Cell Metabolism, 2017, 25, 593-609.	7.2	124
31	Regulatory T Cell Migration Is Dependent on Glucokinase-Mediated Glycolysis. Immunity, 2017, 47, 875-889.e10.	6.6	181
32	Clinical spectrum and features of activated phosphoinositide 3-kinase Î´ syndrome: AÂlarge patient cohort study. Journal of Allergy and Clinical Immunology, 2017, 139, 597-606.e4.	1.5	377
33	T5â€...Complement protein c5a induces prolonged neutrophil dysfunction in a clinically relevant model of human bacteraemia. , 2017, , .		1
34	BACH2 regulates CD8+ T cell differentiation by controlling access of AP-1 factors to enhancers. Nature Immunology, 2016, 17, 851-860.	7.0	221
35	Targeting PI3K in Cancer: Impact on Tumor Cells, Their Protective Stroma, Angiogenesis, and Immunotherapy. Cancer Discovery, 2016, 6, 1090-1105.	7.7	217
36	Ionic immune suppression within the tumour microenvironment limits T cell effector function. Nature, 2016, 537, 539-543.	13.7	479

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37	PI3KÎ´ and primary immunodeficiencies. Nature Reviews Immunology, 2016, 16, 702-714.	10.6	259
38	PI3KÎ´ promotes CD4⁺ Tâ€cell interactions with antigenâ€presenting cells by increasing LFAâ€1 binding to ICAMâ€1. Immunology and Cell Biology, 2016, 94, 486-495.	1.0	19
39	The transcription factor BACH2 promotes tumor immunosuppression. Journal of Clinical Investigation, 2016, 126, 599-604.	3.9	49
40	Inhibition of Phosphoinositide 3-Kinase p110delta Does Not Affect T Cell Driven Development of Type 1 Diabetes Despite Significant Effects on Cytokine Production. PLoS ONE, 2016, 11, e0146516.	1.1	4
41	Editorial: Lipid Signaling in T Cell Development and Function. Frontiers in Immunology, 2015, 6, 410.	2.2	1
42	Immunomodulation of Selective Naive T Cell Functions by p110Î´ Inactivation Improves the Outcome of Mismatched Cell Transplantation. Cell Reports, 2015, 10, 702-710.	2.9	12
43	PI3K inhibitors in inflammation, autoimmunity and cancer. Current Opinion in Pharmacology, 2015, 23, 82-91.	1.7	258
44	Oncogenic PI3KÎ± promotes multipotency in breast epithelial cells. Science Signaling, 2015, 8, pe3.	1.6	4
45	Cowden's syndrome with immunodeficiency. Journal of Medical Genetics, 2015, 52, 856-859.	1.5	48
46	PI3K Signaling in Normal B Cells and Chronic Lymphocytic Leukemia (CLL). Current Topics in Microbiology and Immunology, 2015, 393, 123-142.	0.7	46
47	PI3KÎ´ Regulates the Magnitude of CD8+ T Cell Responses after Challenge with Listeria monocytogenes. Journal of Immunology, 2015, 195, 3206-3217.	0.4	32
48	IL-21 Promotes CD4 T Cell Responses by Phosphatidylinositol 3-Kinaseâ€“Dependent Upregulation of CD86 on B Cells. Journal of Immunology, 2014, 192, 2195-2201.	0.4	42
49	PI3K Signaling in B Cell and T Cell Biology. Frontiers in Immunology, 2014, 5, 557.	2.2	22
50	Idelalisibâ€”targeting PI3KÎ´ in patients with B-cell malignancies. Nature Reviews Clinical Oncology, 2014, 11, 184-186.	12.5	46
51	Inactivation of PI(3)K p110Î´ breaks regulatory T-cell-mediated immune tolerance to cancer. Nature, 2014, 510, 407-411.	13.7	450
52	PI3K. , 2014, , 851-854.		0
53	A Protocol for Construction of Gene Targeting Vectors and Generation of Homologous Recombinant Embryonic Stem Cells. Methods in Molecular Biology, 2013, 1064, 337-354.	0.4	9
54	Two Birds with One Stone: Dual p110Î´ and p110Î³ Inhibition. Chemistry and Biology, 2013, 20, 1309-1310.	6.2	17

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55	Rules of engagement: distinct functions for the four class I PI3K catalytic isoforms in immunity. Annals of the New York Academy of Sciences, 2013, 1280, 24-26.	1.8	37
56	Phosphoinositide 3-Kinase Î´ Gene Mutation Predisposes to Respiratory Infection and Airway Damage. Science, 2013, 342, 866-871.	6.0	541
57	Signaling by the Phosphoinositide 3-Kinase Family in Immune Cells. Annual Review of Immunology, 2013, 31, 675-704.	9.5	349
58	Gene Targeting in Mice: A Review. Methods in Molecular Biology, 2013, 1064, 315-336.	0.4	128
59	PI3K p110Î´ Is Expressed by gp38â^'CD31+ and gp38+CD31+ Spleen Stromal Cells and Regulates Their CCL19, CCL21, and LTÎ²R mRNA Levels. PLoS ONE, 2013, 8, e72960.	1.1	2
60	Abstract A86: Inactivation of p110delta PI3K releases potent antitumor immunity.. , 2013, , .		0
61	Blockade of Phosphatidylinositol 3-Kinase (PI3K)Î´ or PI3KÎ³ Reduces IL-17 and Ameliorates Imiquimod-Induced Psoriasis-like Dermatitis. Journal of Immunology, 2012, 189, 4612-4620.	0.4	71
62	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.	4.2	518
63	Does the PI3K pathway promote or antagonize regulatory T cell development and function?. Frontiers in Immunology, 2012, 3, 244.	2.2	38
64	Pten Loss in CD4 T Cells Enhances Their Helper Function but Does Not Lead to Autoimmunity or Lymphoma. Journal of Immunology, 2012, 188, 5935-5943.	0.4	31
65	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase p110Î´ Prevents Chronic Rejection of Heart Allografts. Transplantation, 2012, 94, 301.	0.5	0
66	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase p110Î´ Prevents Chronic Rejection of Heart Allografts. Transplantation, 2012, 94, 443.	0.5	0
67	Genetic or Pharmaceutical Blockade of Phosphoinositide 3-Kinase P110Î´ Prevents Chronic Rejection of Heart Allografts. PLoS ONE, 2012, 7, e32892.	1.1	13
68	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.	2.3	1
69	The Therapeutic Potential for PI3K Inhibitors in Autoimmune Rheumatic Diseases. Open Rheumatology Journal, 2012, 6, 245-258.	0.1	82
70	PI3KÎ² Plays a Critical Role in Neutrophil Activation by Immune Complexes. Science Signaling, 2011, 4, ra23.	1.6	130
71	Protein Kinase B Controls Transcriptional Programs that Direct Cytotoxic T Cell Fate but Is Dispensable for T Cell Metabolism. Immunity, 2011, 34, 224-236.	6.6	235
72	The PI3K p110Î´ Regulates Expression of CD38 on Regulatory T Cells. PLoS ONE, 2011, 6, e17359.	1.1	73

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73	PI3K p110Î´ regulates T-cell cytokine production during primary and secondary immune responses in mice and humans. Blood, 2010, 115, 2203-2213.	0.6	174
74	Phosphoinositide 3-Kinase Activity in T Cells Regulates the Magnitude of the Germinal Center Reaction. Journal of Immunology, 2010, 185, 4042-4052.	0.4	200
75	Cross Talk between Phosphatidylinositol 3-Kinase and Cyclic AMP (cAMP)-Protein Kinase A Signaling Pathways at the Level of a Protein Kinase B/Î²-Arrestin/cAMP Phosphodiesterase 4 Complex. Molecular and Cellular Biology, 2010, 30, 1660-1672.	1.1	61
76	Ig gene-like molecule CD31 plays a nonredundant role in the regulation of T-cell immunity and tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19461-19466.	3.3	57
77	The PI3K Isoforms p110Î± and p110Î´ Are Essential for Preâ€“B Cell Receptor Signaling and B Cell Development. Science Signaling, 2010, 3, ra60.	1.6	179
78	PI3Ks in Lymphocyte Signaling and Development. Current Topics in Microbiology and Immunology, 2010, 346, 57-85.	0.7	55
79	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. Journal of Immunology, 2009, 183, 7388-7397.	0.4	108
80	p110Â and p110Â isoforms of phosphoinositide 3-kinase differentially regulate natural killer cell migration in health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5795-5800.	3.3	74
81	The p110Î´ Isoform of Phosphatidylinositol 3-Kinase Controls Susceptibility to Leishmania major by Regulating Expansion and Tissue Homing of Regulatory T Cells. Journal of Immunology, 2009, 183, 1921-1933.	0.4	83
82	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. Science, 2009, 326, 140-144.	6.0	1,009
83	Cutting Edge: The Foxp3 Target miR-155 Contributes to the Development of Regulatory T Cells. Journal of Immunology, 2009, 182, 2578-2582.	0.4	350
84	CCL21 mediates CD4+ T-cell costimulation via a DOCK2/Rac-dependent pathway. Blood, 2009, 114, 580-588.	0.6	74
85	Proliferative signals mediated by CD28 superagonists require the exchange factor Vav1 but not phosphoinositide 3â€kinase in primary peripheral T cells. European Journal of Immunology, 2008, 38, 2528-2533.	1.6	11
86	Phosphatidylinositol-3-OH kinase and nutrient-sensing mTOR pathways control T lymphocyte trafficking. Nature Immunology, 2008, 9, 513-521.	7.0	364
87	Evidence for lifespan extension and delayed ageâ€related biomarkers in insulin receptor substrate 1 null mice. FASEB Journal, 2008, 22, 807-818.	0.2	487
88	Genetic or pharmaceutical blockade of p110Î´ phosphoinositide 3-kinase enhances IgE production. Journal of Allergy and Clinical Immunology, 2008, 122, 811-819.e2.	1.5	67
89	The p110Î² isoform of phosphoinositide 3-kinase signals downstream of G protein-coupled receptors and is functionally redundant with p110Î³. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8292-8297.	3.3	317
90	CD28 provides T-cell costimulation and enhances PI3K activity at the immune synapse independently of its capacity to interact with the p85/p110 heterodimer. Blood, 2008, 111, 1464-1471.	0.6	121

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91	T cell receptorâ€“induced phosphoinositide-3-kinase p110Î´ activity is required for T cell localization to antigenic tissue in mice. Journal of Clinical Investigation, 2008, 118, 1154-64.	3.9	49
92	Requirement for Phosphoinositide 3-Kinase p110Î´ Signaling in B Cell Antigen Receptor-Mediated Antigen Presentation. Journal of Immunology, 2007, 178, 2328-2335.	0.4	45
93	Physiologic and aberrant regulation of memory T-cell trafficking by the costimulatory molecule CD28. Blood, 2007, 109, 2968-2977.	0.6	74
94	Inactivation of PI3KÎ³ and PI3KÎ´ distorts T-cell development and causes multiple organ inflammation. Blood, 2007, 110, 2940-2947.	0.6	113
95	Antigen receptor signalling: a distinctive role for the p110Î´ isoform of PI3K. Trends in Immunology, 2007, 28, 80-87.	2.9	114
96	A two-signal model for T cell trafficking. Trends in Immunology, 2007, 28, 267-273.	2.9	34
97	Requirement of bic/microRNA-155 for Normal Immune Function. Science, 2007, 316, 608-611.	6.0	1,786
98	Role of the phosphoinositide 3-kinase p110Î´ in generation of typeâ€„2 cytokine responses and allergic airway inflammation. European Journal of Immunology, 2007, 37, 416-424.	1.6	106
99	Key role of the p110Î´ isoform of PI3K in B-cell antigen and IL-4 receptor signaling: comparative analysis of genetic and pharmacologic interference with p110Î´ function in B cells. Blood, 2006, 107, 642-650.	0.6	202
100	Critical role for the p110Î± phosphoinositide-3-OH kinase in growth and metabolic regulation. Nature, 2006, 441, 366-370.	13.7	439
101	The p110Î´ Isoform of Phosphoinositide 3-Kinase Controls Clonal Expansion and Differentiation of Th Cells. Journal of Immunology, 2006, 177, 5122-5128.	0.4	192
102	Cutting Edge: The Phosphoinositide 3-Kinase p110Î´ Is Critical for the Function of CD4+CD25+Foxp3+ Regulatory T Cells. Journal of Immunology, 2006, 177, 6598-6602.	0.4	280
103	Sequential activation of class IB and class IA PI3K is important for the primed respiratory burst of human but not murine neutrophils. Blood, 2005, 106, 1432-1440.	0.6	274
104	P-Rex1 Regulates Neutrophil Function. Current Biology, 2005, 15, 1867-1873.	1.8	161
105	Role of the p110Î´ PI 3-kinase in integrin and ITAM receptor signalling in platelets. Platelets, 2005, 16, 191-202.	1.1	47
106	CD28 Regulates the Translation of Bcl-xL via the Phosphatidylinositol 3-Kinase/Mammalian Target of Rapamycin Pathway. Journal of Immunology, 2005, 174, 180-194.	0.4	58
107	Cutting Edge: Differential Roles for Phosphoinositide 3-Kinases, p110Î³ and p110Î´, in Lymphocyte Chemotaxis and Homing. Journal of Immunology, 2004, 173, 2236-2240.	0.4	217
108	Essential role for the p110Î´ phosphoinositide 3-kinase in the allergic response. Nature, 2004, 431, 1007-1011.	13.7	369

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109	PI3K in lymphocyte development, differentiation and activation. Nature Reviews Immunology, 2003, 3, 317-330.	10.6	690
110	Gene-targeting reveals physiological roles and complex regulation of the phosphoinositide 3-kinases. Archives of Biochemistry and Biophysics, 2003, 414, 13-18.	1.4	34
111	Class I Phosphoinositide 3-Kinase p110Î² Is Required for Apoptotic Cell and FcÎ³ Receptor-mediated Phagocytosis by Macrophages. Journal of Biological Chemistry, 2003, 278, 38437-38442.	1.6	83
112	Impaired B and T Cell Antigen Receptor Signaling in p110delta PI 3-Kinase Mutant Mice. Science, 2002, 297, 1031-4.	6.0	836
113	Cellular Function of Phosphoinositide 3-Kinases: Implications for Development, Immunity, Homeostasis, and Cancer. Annual Review of Cell and Developmental Biology, 2001, 17, 615-675.	4.0	1,047
114	A point mutation in CD28 distinguishes proliferative signals from survival signals. Nature Immunology, 2001, 2, 325-332.	7.0	187
115	Socs1 binds to multiple signalling proteins and suppresses Steel factor-dependent proliferation. EMBO Journal, 1999, 18, 904-915.	3.5	192
116	Grb2 Forms an Inducible Protein Complex with CD28 through a Src Homology 3 Domain-Proline Interaction. Journal of Biological Chemistry, 1998, 273, 21194-21202.	1.6	63
117	Acute Streptococcus pneumoniae lung infection: Mouse model and characterisation of the immune response.. Protocol Exchange, 0, , .	0.3	3
118	CD28. The AFCS-nature Molecule Pages, 0, , .	0.2	0