

Iannis Aifantis

List of Publications by Year in descending order

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130
papers

14,455
citations

25034

57
h-index

21540

114
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139
all docs

139
docs citations

139
times ranked

22681
citing authors

#	ARTICLE	IF	CITATIONS
1	Tet2 Loss Leads to Increased Hematopoietic Stem Cell Self-Renewal and Myeloid Transformation. <i>Cancer Cell</i> , 2011, 20, 11-24.	16.8	1,105
2	The bone marrow microenvironment at single-cell resolution. <i>Nature</i> , 2019, 569, 222-228.	27.8	624
3	Restoration of TET2 Function Blocks Aberrant Self-Renewal and Leukemia Progression. <i>Cell</i> , 2017, 170, 1079-1095.e20.	28.9	522
4	Genetic inactivation of the polycomb repressive complex 2 in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2012, 18, 298-302.	30.7	453
5	SRSF2 Mutations Contribute to Myelodysplasia by Mutant-Specific Effects on Exon Recognition. <i>Cancer Cell</i> , 2015, 27, 617-630.	16.8	449
6	The SCFFBW7 ubiquitin ligase complex as a tumor suppressor in T cell leukemia. <i>Journal of Experimental Medicine</i> , 2007, 204, 1825-1835.	8.5	427
7	Î³-secretase inhibitors reverse glucocorticoid resistance in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2009, 15, 50-58.	30.7	417
8	Genome-wide Mapping and Characterization of Notch-Regulated Long Noncoding RNAs in Acute Leukemia. <i>Cell</i> , 2014, 158, 593-606.	28.9	397
9	Molecular pathogenesis of T-cell leukaemia and lymphoma. <i>Nature Reviews Immunology</i> , 2008, 8, 380-390.	22.7	396
10	Genomic analysis identifies new drivers and progression pathways in skin basal cell carcinoma. <i>Nature Genetics</i> , 2016, 48, 398-406.	21.4	370
11	A novel tumour-suppressor function for the Notch pathway in myeloid leukaemia. <i>Nature</i> , 2011, 473, 230-233.	27.8	351
12	Contrasting roles of histone 3 lysine 27 demethylases in acute lymphoblastic leukaemia. <i>Nature</i> , 2014, 514, 513-517.	27.8	340
13	From Fly Wings to Targeted Cancer Therapies: A Centennial for Notch Signaling. <i>Cancer Cell</i> , 2014, 25, 318-334.	16.8	318
14	Targeting the NF-Î³B signaling pathway in Notch1-induced T-cell leukemia. <i>Nature Medicine</i> , 2007, 13, 70-77.	30.7	315
15	Requirement for cyclin D3 in lymphocyte development and T cell leukemias. <i>Cancer Cell</i> , 2003, 4, 451-461.	16.8	307
16	The Ubiquitin Ligase FBXW7 Modulates Leukemia-Initiating Cell Activity by Regulating MYC Stability. <i>Cell</i> , 2013, 153, 1552-1566.	28.9	277
17	The Methylcytosine Dioxygenase Tet2 Promotes DNA Demethylation and Activation of Cytokine Gene Expression in T Cells. <i>Immunity</i> , 2015, 42, 613-626.	14.3	264
18	The Notch/Hes1 Pathway Sustains NF-Î³B Activation through CYLD Repression in T Cell Leukemia. <i>Cancer Cell</i> , 2010, 18, 268-281.	16.8	261

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19	Targeting an RNA-Binding Protein Network in Acute Myeloid Leukemia. <i>Cancer Cell</i> , 2019, 35, 369-384.e7.	16.8	238
20	DNA Hydroxymethylation Profiling Reveals that WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. <i>Cell Reports</i> , 2014, 9, 1841-1855.	6.4	237
21	Regulation of Pluripotency and Cellular Reprogramming by the Ubiquitin-Proteasome System. <i>Cell Stem Cell</i> , 2012, 11, 783-798.	11.1	235
22	Deregulation of DUX4 and ERG in acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2016, 48, 1481-1489.	21.4	231
23	Endothelial Jagged-1 Is Necessary for Homeostatic and Regenerative Hematopoiesis. <i>Cell Reports</i> , 2013, 4, 1022-1034.	6.4	224
24	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. <i>Cancer Cell</i> , 2015, 27, 755-768.	16.8	216
25	Epigenetic Silencing of CDR1as Drives IGF2BP3-Mediated Melanoma Invasion and Metastasis. <i>Cancer Cell</i> , 2020, 37, 55-70.e15.	16.8	200
26	Mutational Cooperativity Linked to Combinatorial Epigenetic Gain of Function in Acute Myeloid Leukemia. <i>Cancer Cell</i> , 2015, 27, 502-515.	16.8	191
27	Control of Embryonic Stem Cell Identity by BRD4-Dependent Transcriptional Elongation of Super-Enhancer-Associated Pluripotency Genes. <i>Cell Reports</i> , 2014, 9, 234-247.	6.4	181
28	TET1 is a tumor suppressor of hematopoietic malignancy. <i>Nature Immunology</i> , 2015, 16, 653-662.	14.5	173
29	Mutant IDH1 Downregulates ATM and Alters DNA Repair and Sensitivity to DNA Damage Independent of TET2. <i>Cancer Cell</i> , 2016, 30, 337-348.	16.8	166
30	Therapeutic Targeting of the Cyclin D3:CDK4/6 Complex in T Cell Leukemia. <i>Cancer Cell</i> , 2012, 22, 452-465.	16.8	162
31	Control of hematopoietic stem cell quiescence by the E3 ubiquitin ligase Fbw7. <i>Journal of Experimental Medicine</i> , 2008, 205, 1395-1408.	8.5	157
32	Notch pathway activation targets AML-initiating cell homeostasis and differentiation. <i>Journal of Experimental Medicine</i> , 2013, 210, 301-319.	8.5	148
33	Cohesin loss alters adult hematopoietic stem cell homeostasis, leading to myeloproliferative neoplasms. <i>Journal of Experimental Medicine</i> , 2015, 212, 1833-1850.	8.5	145
34	Notch ligand Dll1 mediates cross-talk between mammary stem cells and the macrophageal niche. <i>Science</i> , 2018, 360, .	12.6	144
35	RNA Splicing and Cancer. <i>Trends in Cancer</i> , 2020, 6, 631-644.	7.4	140
36	Vitamin C in Stem Cell Reprogramming and Cancer. <i>Trends in Cell Biology</i> , 2018, 28, 698-708.	7.9	139

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37	A Deep Learning Framework for Predicting Response to Therapy in Cancer. <i>Cell Reports</i> , 2019, 29, 3367-3373.e4.	6.4	137
38	FBXW7 modulates cellular stress response and metastatic potential through HSF1 post-translational modification. <i>Nature Cell Biology</i> , 2015, 17, 322-332.	10.3	134
39	Cyclin C is a haploinsufficient tumour suppressor. <i>Nature Cell Biology</i> , 2014, 16, 1080-1091.	10.3	124
40	TET2 Deficiency Causes Germinal Center Hyperplasia, Impairs Plasma Cell Differentiation, and Promotes B-cell Lymphomagenesis. <i>Cancer Discovery</i> , 2018, 8, 1632-1653.	9.4	120
41	Three-dimensional chromatin landscapes in T cell acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2020, 52, 388-400.	21.4	118
42	SARS-CoV-2 exacerbates proinflammatory responses in myeloid cells through C-type lectin receptors and Tweety family member 2. <i>Immunity</i> , 2021, 54, 1304-1319.e9.	14.3	115
43	Stratification of TAD boundaries reveals preferential insulation of super-enhancers by strong boundaries. <i>Nature Communications</i> , 2018, 9, 542.	12.8	112
44	Regulation of c-Myc Ubiquitination Controls Chronic Myelogenous Leukemia Initiation and Progression. <i>Cancer Cell</i> , 2013, 23, 362-375.	16.8	111
45	Extensive Remodeling of the Immune Microenvironment in B Cell Acute Lymphoblastic Leukemia. <i>Cancer Cell</i> , 2020, 37, 867-882.e12.	16.8	108
46	Regulation of hematopoietic stem cell differentiation by a single ubiquitin ligase substrate complex. <i>Nature Immunology</i> , 2010, 11, 207-215.	14.5	103
47	Regulation of T-cell progenitor survival and cell-cycle entry by the pre-T-cell receptor. <i>Immunological Reviews</i> , 2006, 209, 159-169.	6.0	89
48	MED12 Regulates HSC-Specific Enhancers Independently of Mediator Kinase Activity to Control Hematopoiesis. <i>Cell Stem Cell</i> , 2016, 19, 784-799.	11.1	88
49	Cardiac Myocyte KLF5 Regulates <i>Ppara</i> Expression and Cardiac Function. <i>Circulation Research</i> , 2016, 118, 241-253.	4.5	88
50	Tet2 loss leads to hypermutagenicity in haematopoietic stem/progenitor cells. <i>Nature Communications</i> , 2017, 8, 15102.	12.8	88
51	Tet2 Facilitates the Derepression of Myeloid Target Genes during CEBP β -Induced Transdifferentiation of Pre-B Cells. <i>Molecular Cell</i> , 2012, 48, 266-276.	9.7	85
52	In Vivo Mapping of Notch Pathway Activity in Normal and Stress Hematopoiesis. <i>Cell Stem Cell</i> , 2013, 13, 190-204.	11.1	80
53	Emerging concepts of epigenetic dysregulation in hematological malignancies. <i>Nature Immunology</i> , 2016, 17, 1016-1024.	14.5	77
54	Machine learning and data mining frameworks for predicting drug response in cancer: An overview and a novel in silico screening process based on association rule mining. , 2019, 203, 107395.		76

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55	On the brink of becoming a T cell. <i>Current Opinion in Immunology</i> , 2002, 14, 200-206.	5.5	72
56	The long non-coding RNA HOXB-AS3 regulates ribosomal RNA transcription in NPM1-mutated acute myeloid leukemia. <i>Nature Communications</i> , 2019, 10, 5351.	12.8	71
57	HiC-bench: comprehensive and reproducible Hi-C data analysis designed for parameter exploration and benchmarking. <i>BMC Genomics</i> , 2017, 18, 22.	2.8	69
58	The Impact of DNA Methylation in Hematopoietic Malignancies. <i>Trends in Cancer</i> , 2016, 2, 70-83.	7.4	68
59	Role of Dysregulated Cytokine Signaling and Bacterial Triggers in the Pathogenesis of Cutaneous T-Cell Lymphoma. <i>Journal of Investigative Dermatology</i> , 2018, 138, 1116-1125.	0.7	68
60	Oncogenic hijacking of the stress response machinery in T cell acute lymphoblastic leukemia. <i>Nature Medicine</i> , 2018, 24, 1157-1166.	30.7	63
61	Gut-resident CX3CR1 ^{hi} macrophages induce tertiary lymphoid structures and IgA response in situ. <i>Science Immunology</i> , 2020, 5, .	11.9	63
62	The ubiquitin ligase Huwe1 regulates the maintenance and lymphoid commitment of hematopoietic stem cells. <i>Nature Immunology</i> , 2016, 17, 1312-1321.	14.5	62
63	Regulation of stem cell function by protein ubiquitylation. <i>EMBO Reports</i> , 2014, 15, 365-382.	4.5	57
64	Regulation of transcriptional elongation in pluripotency and cell differentiation by the PHD-finger protein Phf5a. <i>Nature Cell Biology</i> , 2016, 18, 1127-1138.	10.3	57
65	STAT3 supports experimental K-RasG12D-induced murine myeloproliferative neoplasms dependent on serine phosphorylation. <i>Blood</i> , 2014, 124, 2252-2261.	1.4	51
66	AICDA drives epigenetic heterogeneity and accelerates germinal center-derived lymphomagenesis. <i>Nature Communications</i> , 2018, 9, 222.	12.8	51
67	CXCR4 signaling directs Igk recombination and the molecular mechanisms of late B lymphopoiesis. <i>Nature Immunology</i> , 2019, 20, 1393-1403.	14.5	47
68	Regulation of lymphocyte progenitor survival by the proapoptotic activities of Bim and Bid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20840-20845.	7.1	44
69	Leukemia-on-a-chip: Dissecting the chemoresistance mechanisms in B cell acute lymphoblastic leukemia bone marrow niche. <i>Science Advances</i> , 2020, 6, .	10.3	44
70	BCL6 Antagonizes NOTCH2 to Maintain Survival of Human Follicular Lymphoma Cells. <i>Cancer Discovery</i> , 2017, 7, 506-521.	9.4	43
71	The E3 ubiquitin ligase SPOP controls resolution of systemic inflammation by triggering MYD88 degradation. <i>Nature Immunology</i> , 2019, 20, 1196-1207.	14.5	42
72	Surface antigen-guided CRISPR screens identify regulators of myeloid leukemia differentiation. <i>Cell Stem Cell</i> , 2021, 28, 718-731.e6.	11.1	38

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73	Posttranslational Regulation of the Exon Skipping Machinery Controls Aberrant Splicing in Leukemia. <i>Cancer Discovery</i> , 2020, 10, 1388-1409.	9.4	37
74	Active and Inactive Enhancers Cooperate to Exert Localized and Long-Range Control of Gene Regulation. <i>Cell Reports</i> , 2016, 15, 2159-2169.	6.4	35
75	Valine tRNA levels and availability regulate complex I assembly in leukaemia. <i>Nature</i> , 2022, 601, 428-433.	27.8	34
76	Immune-Based Therapies in Acute Leukemia. <i>Trends in Cancer</i> , 2019, 5, 604-618.	7.4	32
77	The CUL4-DDB1 ubiquitin ligase complex controls adult and embryonic stem cell differentiation and homeostasis. <i>ELife</i> , 2015, 4, .	6.0	31
78	Mapping and targeting of the leukemic microenvironment. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	29
79	Conserved IKAROS-regulated genes associated with B-progenitor acute lymphoblastic leukemia outcome. <i>Journal of Experimental Medicine</i> , 2017, 214, 773-791.	8.5	27
80	Therapeutic targeting of the E3 ubiquitin ligase SKP2 in T-ALL. <i>Leukemia</i> , 2020, 34, 1241-1252.	7.2	27
81	Alternative roles for oxidized mCs and TETs. <i>Current Opinion in Genetics and Development</i> , 2017, 42, 1-7.	3.3	25
82	TRAF6 functions as a tumor suppressor in myeloid malignancies by directly targeting MYC oncogenic activity. <i>Cell Stem Cell</i> , 2022, 29, 298-314.e9.	11.1	23
83	Emerging roles for the FBXW7 ubiquitin ligase in leukemia and beyond. <i>Current Opinion in Cell Biology</i> , 2015, 37, 28-34.	5.4	22
84	lncRNA-screen: an interactive platform for computationally screening long non-coding RNAs in large genomics datasets. <i>BMC Genomics</i> , 2017, 18, 434.	2.8	22
85	Deep Learning and Pathomics Analyses Reveal Cell Nuclei as Important Features for Mutation Prediction of BRAF-Mutated Melanomas. <i>Journal of Investigative Dermatology</i> , 2022, 142, 1650-1658.e6.	0.7	22
86	3D Chromosomal Landscapes in Hematopoiesis and Immunity. <i>Trends in Immunology</i> , 2019, 40, 809-824.	6.8	21
87	STIM1 and STIM2 Mediate Cancer-Induced Inflammation in T Cell Acute Lymphoblastic Leukemia. <i>Cell Reports</i> , 2018, 24, 3045-3060.e5.	6.4	20
88	Limited miR-17-92 overexpression drives hematologic malignancies. <i>Leukemia Research</i> , 2015, 39, 335-341.	0.8	19
89	Apoptosis, Up the Ante. <i>Cancer Cell</i> , 2017, 32, 402-403.	16.8	19
90	Cell-by-Cell Deconstruction of Stem Cell Niches. <i>Cell Stem Cell</i> , 2020, 27, 19-34.	11.1	19

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91	CHD7 and Runx1 interaction provides a braking mechanism for hematopoietic differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23626-23635.	7.1	18
92	Rapid Crypt Cell Remodeling Regenerates the Intestinal Stem Cell Niche after Notch Inhibition. Stem Cell Reports, 2020, 15, 156-170.	4.8	18
93	Innate Immune Signaling Suppresses Acute Leukemia By Modifying MYC Oncogenic Activity. Blood, 2019, 134, 727-727.	1.4	18
94	Notches, NF-kBs and the Making of T Cell Leukemia. Cell Cycle, 2007, 6, 403-406.	2.6	15
95	Coactivation of NF-ÎB and Notch signaling is sufficient to induce B-cell transformation and enables B-myeloid conversion. Blood, 2020, 135, 108-120.	1.4	14
96	Opposing functions of H2BK120 ubiquitylation and H3K79 methylation in the regulation of pluripotency by the Paf1 complex. Cell Cycle, 2017, 16, 2315-2322.	2.6	13
97	Cardiac myocyte KLF5 regulates body weight via alteration of cardiac FGF21. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2125-2137.	3.8	13
98	Impaired Expression of Rearranged Immunoglobulin Genes and Premature p53 Activation Block B Cell Development in BMI1 Null Mice. Cell Reports, 2019, 26, 108-118.e4.	6.4	10
99	<sc>FBXW</sc>7 inactivation in a <i>Braf</i>^{<i>V600E</i>}-driven mouse model leads to melanoma development. Pigment Cell and Melanoma Research, 2017, 30, 571-574.	3.3	7
100	Beating the Clock in T-cell Acute Lymphoblastic Leukemia. Clinical Cancer Research, 2017, 23, 873-875.	7.0	7
101	A Role for TET2 Mutations in Paroxysmal Nocturnal Hemoglobinuria (PNH). Blood, 2012, 120, 1262-1262.	1.4	7
102	Emerging roles for tRNAs in hematopoiesis and hematological malignancies. Trends in Immunology, 2022, 43, 466-477.	6.8	5
103	Energy addiction and lymphocyte differentiation: A new role for the liver kinase B1 kinase. European Journal of Immunology, 2010, 40, 19-21.	2.9	4
104	On Epigenetic Plasticity and Genome Topology. Trends in Cancer, 2020, 6, 177-180.	7.4	4
105	Knockdown of CCR7 or Its Ligands Causes a Loss of Central Nervous System Involvement in Notch1 Induced T-ALL. Blood, 2008, 112, 199-199.	1.4	4
106	ASXL1 Mutations Promote Myeloid Transformation Through Inhibition of PRC2-Mediated Gene Repression. Blood, 2011, 118, 405-405.	1.4	4
107	Analysis of TET2 mutations in paroxysmal nocturnal hemoglobinuria (PNH). Experimental Hematology and Oncology, 2019, 8, 17.	5.0	3
108	Spleen plays a major role in DLL4-driven acute T-cell lymphoblastic leukemia. Theranostics, 2021, 11, 1594-1608.	10.0	3

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109	Inhibition of NOTCH1 Signaling and Glucocorticoid Therapy in T-ALL. <i>Blood</i> , 2008, 112, 298-298.	1.4	3
110	LILRB3 as a regulator of AML survival. <i>Nature Cancer</i> , 2021, 2, 1122-1123.	13.2	3
111	U.S. Biomedical Research Needs More Immigrant Scientists, Not Fewer!. <i>Cancer Cell</i> , 2020, 38, 308.	16.8	2
112	SRSF2 Mutations Impair Hematopoietic Differentiation By Altering Exonic Splicing Enhancer Preference. <i>Blood</i> , 2014, 124, 824-824.	1.4	2
113	²²³ Ra Induces Transient Functional Bone Marrow Toxicity. <i>Journal of Nuclear Medicine</i> , 2022, 63, 1544-1550.	5.0	2
114	The Pre-BCR to the Rescue: Therapeutic Targeting of Pre-B Cell ALL. <i>Cancer Cell</i> , 2015, 27, 321-323.	16.8	1
115	Splicing the innate immune signalling in leukaemia. <i>Nature Cell Biology</i> , 2019, 21, 536-537.	10.3	1
116	Evaluating Clonal Dominance in a Murine Knock-in Model of Jak2V617F MPN. <i>Blood</i> , 2011, 118, 614-614.	1.4	1
117	RNA-binding proteins, the guardians of the marginal zone. <i>Nature Immunology</i> , 2017, 18, 595-597.	14.5	0
118	The effect of chromatin states on cancer: big data lead the way. <i>Lancet Haematology</i> , 2018, 5, e237-e238.	4.6	0
119	Harald von Boehmer 1942–2018. <i>Nature Immunology</i> , 2018, 19, 899-899.	14.5	0
120	The Notch Signaling Pathway as a Suppressor of Myeloid Transformation. <i>Blood</i> , 2011, 118, SCI-13-SCI-13.	1.4	0
121	Conditional Deletion of <i>Asxl1</i> Results in Myelodysplasia. <i>Blood</i> , 2012, 120, 308-308.	1.4	0
122	Epigenetic Profiling Of Leukemia Stem Cells In a Model Of TET2/FLT3-Mutant AML. <i>Blood</i> , 2013, 122, 476-476.	1.4	0
123	New Design Of Human T-ALL Transplantation In NSG Mice Uncovers The Major Role Of CD31/PECAM1 In The Central Nervous System Infiltration. <i>Blood</i> , 2013, 122, 1436-1436.	1.4	0
124	DNA Hydroxymethylation Profiling Reveals That WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. <i>Blood</i> , 2014, 124, 365-365.	1.4	0
125	Cohesin loss alters adult hematopoietic stem cell homeostasis, leading to myeloproliferative neoplasms. <i>Journal of Cell Biology</i> , 2015, 211, 2111OIA225.	5.2	0
126	Rapid crypt cell remodeling regenerates the intestinal stem cell niche after stem cell loss induced by Notch inhibition. <i>FASEB Journal</i> , 2018, 32, 612.2.	0.5	0

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127	Therapeutic Targeting of an RNA Splicing Factor Network for the Treatment of Myeloid Neoplasms. Blood, 2018, 132, 427-427.	1.4	0
128	Oncogenic-Drivers Dictate Immune Responses to Control Disease Progression in Acute Myeloid Leukaemia. Blood, 2018, 132, 904-904.	1.4	0
129	Donor T Cells Require Notch Signals but Not Alloantigen Presentation from Specialized Secondary Lymphoid Organ Fibroblasts to Drive Graft-Versus-Host Disease. Blood, 2018, 132, 810-810.	1.4	0
130	Dll1 and Dll4 Notch Ligands Prime T Cell Alloimmunity and Are Expressed in Non-Overlapping Populations of Fibroblastic Stromal Cells in Spleen and Lymph Nodes at the Onset of Gvhd. Blood, 2019, 134, 588-588.	1.4	0