Iannis Aifantis

List of Publications by Year
in descending order

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130	14,455	25034	21540
papers	citations	57	114
		h-index	g-index

139	139	139	22681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Learning and Pathomics Analyses Reveal Cell Nuclei as Important Features for Mutation Prediction of BRAF-Mutated Melanomas. Journal of Investigative Dermatology, 2022, 142, 1650-1658.e6.	0.7	22
2	TRAF6 functions as a tumor suppressor in myeloid malignancies by directly targeting MYC oncogenic activity. Cell Stem Cell, 2022, 29, 298-314.e9.	11.1	23
3	Valine tRNA levels and availability regulate complex I assembly in leukaemia. Nature, 2022, 601, 428-433.	27.8	34
4	²²³Ra Induces Transient Functional Bone Marrow Toxicity. Journal of Nuclear Medicine, 2022, 63, 1544-1550.	5.0	2
5	Emerging roles for tRNAs in hematopoiesis and hematological malignancies. Trends in Immunology, 2022, 43, 466-477.	6.8	5
6	Spleen plays a major role in DLL4-driven acute T-cell lymphoblastic leukemia. Theranostics, 2021, 11, 1594-1608.	10.0	3
7	Surface antigen-guided CRISPR screens identify regulators of myeloid leukemia differentiation. Cell Stem Cell, 2021, 28, 718-731.e6.	11.1	38
8	SARS-CoV-2 exacerbates proinflammatory responses in myeloid cells through C-type lectin receptors and Tweety family member 2. Immunity, 2021, 54, 1304-1319.e9.	14.3	115
9	LILRB3 as a regulator of AML survival. Nature Cancer, 2021, 2, 1122-1123.	13.2	3
10	Therapeutic targeting of the E3 ubiquitin ligase SKP2 in T-ALL. Leukemia, 2020, 34, 1241-1252.	7.2	27
11	Leukemia-on-a-chip: Dissecting the chemoresistance mechanisms in B cell acute lymphoblastic leukemia bone marrow niche. Science Advances, 2020, 6, .	10.3	44
12	Mapping and targeting of the leukemic microenvironment. Journal of Experimental Medicine, 2020, 217, .	8.5	29
13	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
14	U.S. Biomedical Research Needs More Immigrant Scientists, Not Fewer!. Cancer Cell, 2020, 38, 308.	16.8	2
15	Coactivation of NF-ÎºB and Notch signaling is sufficient to induce B-cell transformation and enables B-myeloid conversion. Blood, 2020, 135, 108-120.	1.4	14
16	Extensive Remodeling of the Immune Microenvironment in B Cell Acute Lymphoblastic Leukemia. Cancer Cell, 2020, 37, 867-882.e12.	16.8	108
17	Rapid Crypt Cell Remodeling Regenerates the Intestinal Stem Cell Niche after Notch Inhibition. Stem Cell Reports, 2020, 15, 156-170.	4.8	18
18	RNA Splicing and Cancer. Trends in Cancer, 2020, 6, 631-644.	7.4	140

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19	Three-dimensional chromatin landscapes in T cell acute lymphoblastic leukemia. Nature Genetics, 2020, 52, 388-400.	21.4	118
20	Cell-by-Cell Deconstruction of Stem Cell Niches. Cell Stem Cell, 2020, 27, 19-34.	11.1	19
21	On Epigenetic Plasticity and Genome Topology. Trends in Cancer, 2020, 6, 177-180.	7.4	4
22	Epigenetic Silencing of CDR1as Drives IGF2BP3-Mediated Melanoma Invasion and Metastasis. Cancer Cell, 2020, 37, 55-70.e15.	16.8	200
23	Gut-resident CX3CR1 ^{hi} macrophages induce tertiary lymphoid structures and IgA response in situ. Science Immunology, 2020, 5, .	11.9	63
24	Posttranslational Regulation of the Exon Skipping Machinery Controls Aberrant Splicing in Leukemia. Cancer Discovery, 2020, 10, 1388-1409.	9.4	37
25	3D Chromosomal Landscapes in Hematopoiesis and Immunity. Trends in Immunology, 2019, 40, 809-824.	6.8	21
26	The E3 ubiquitin ligase SPOP controls resolution of systemic inflammation by triggering MYD88 degradation. Nature Immunology, 2019, 20, 1196-1207.	14.5	42
27	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
28	Immune-Based Therapies in Acute Leukemia. Trends in Cancer, 2019, 5, 604-618.	7.4	32
29	Analysis of TET2 mutations in paroxysmal nocturnal hemoglobinuria (PNH). Experimental Hematology and Oncology, 2019, 8, 17.	5.0	3
30	CXCR4 signaling directs Igk recombination and the molecular mechanisms of late B lymphopoiesis. Nature Immunology, 2019, 20, 1393-1403.	14.5	47
31	Splicing the innate immune signalling in leukaemia. Nature Cell Biology, 2019, 21, 536-537.	10.3	1
32	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
33	The bone marrow microenvironment at single-cell resolution. Nature, 2019, 569, 222-228.	27.8	624
34	Targeting an RNA-Binding Protein Network in Acute Myeloid Leukemia. Cancer Cell, 2019, 35, 369-384.e7.	16.8	238
35	The long non-coding RNA HOXB-AS3 regulates ribosomal RNA transcription in NPM1-mutated acute myeloid leukemia. Nature Communications, 2019, 10, 5351.	12.8	71
36	A Deep Learning Framework for Predicting Response to Therapy in Cancer. Cell Reports, 2019, 29, 3367-3373.e4.	6.4	137

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37	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
38	Innate Immune Signaling Suppresses Acute Leukemia By Modifying MYC Oncogenic Activity. Blood, 2019, 134, 727-727.	1.4	18
39	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
40	Stratification of TAD boundaries reveals preferential insulation of super-enhancers by strong boundaries. Nature Communications, 2018, 9, 542.	12.8	112
41	AICDA drives epigenetic heterogeneity and accelerates germinal center-derived lymphomagenesis. Nature Communications, 2018, 9, 222.	12.8	51
42	Role of Dysregulated Cytokine Signaling and Bacterial Triggers in the Pathogenesis ofÂCutaneous T-Cell Lymphoma. Journal of Investigative Dermatology, 2018, 138, 1116-1125.	0.7	68
43	Vitamin C in Stem Cell Reprogramming and Cancer. Trends in Cell Biology, 2018, 28, 698-708.	7.9	139
44	TET2 Deficiency Causes Germinal Center Hyperplasia, Impairs Plasma Cell Differentiation, and Promotes B-cell Lymphomagenesis. Cancer Discovery, 2018, 8, 1632-1653.	9.4	120
45	STIM1 and STIM2 Mediate Cancer-Induced Inflammation in T Cell Acute Lymphoblastic Leukemia. Cell Reports, 2018, 24, 3045-3060.e5.	6.4	20
46	Notch ligand Dll1 mediates cross-talk between mammary stem cells and the macrophageal niche. Science, 2018, 360, .	12.6	144
47	The effect of chromatin states on cancer: big data lead the way. Lancet Haematology,the, 2018, 5, e237-e238.	4.6	0
48	Oncogenic hijacking of the stress response machinery in T cell acute lymphoblastic leukemia. Nature Medicine, 2018, 24, 1157-1166.	30.7	63
49	Harald von Boehmer 1942â€“2018. Nature Immunology, 2018, 19, 899-899.	14.5	0
50	Rapid crypt cell remodeling regenerates the intestinal stem cell niche after stem cell loss induced by Notch inhibition. FASEB Journal, 2018, 32, 612.2.	0.5	0
51	Therapeutic Targeting of an RNA Splicing Factor Network for the Treatment of Myeloid Neoplasms. Blood, 2018, 132, 427-427.	1.4	0
52	Oncogenic-Drivers Dictate Immune Responses to Control Disease Progression in Acute Myeloid Leukaemia. Blood, 2018, 132, 904-904.	1.4	0
53	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
54	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

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55	BCL6 Antagonizes NOTCH2 to Maintain Survival of Human Follicular Lymphoma Cells. Cancer Discovery, 2017, 7, 506-521.	9.4	43
56	Conserved IKAROS-regulated genes associated with B-progenitor acute lymphoblastic leukemia outcome. Journal of Experimental Medicine, 2017, 214, 773-791.	8.5	27
57	Tet2 loss leads to hypermutagenicity in haematopoietic stem/progenitor cells. Nature Communications, 2017, 8, 15102.	12.8	88
58	RNA-binding proteins, the guardians of the marginal zone. Nature Immunology, 2017, 18, 595-597.	14.5	0
59	lncRNA-screen: an interactive platform for computationally screening long non-coding RNAs in large genomics datasets. BMC Genomics, 2017, 18, 434.	2.8	22
60	<scp>FBXW</scp>7 inactivation in a Braf^{V600E}â€driven mouse model leads to melanoma development. Pigment Cell and Melanoma Research, 2017, 30, 571-574.	3.3	7
61	Beating the Clock in T-cell Acute Lymphoblastic Leukemia. Clinical Cancer Research, 2017, 23, 873-875.	7.0	7
62	Alternative roles for oxidized mCs and TETs. Current Opinion in Genetics and Development, 2017, 42, 1-7.	3.3	25
63	Apoptosis, Up the Ante. Cancer Cell, 2017, 32, 402-403.	16.8	19
64	Restoration of TET2 Function Blocks Aberrant Self-Renewal and Leukemia Progression. Cell, 2017, 170, 1079-1095.e20.	28.9	522
65	HiC-bench: comprehensive and reproducible Hi-C data analysis designed for parameter exploration and benchmarking. BMC Genomics, 2017, 18, 22.	2.8	69
66	The ubiquitin ligase Huwe1 regulates the maintenance and lymphoid commitment of hematopoietic stem cells. Nature Immunology, 2016, 17, 1312-1321.	14.5	62
67	Emerging concepts of epigenetic dysregulation in hematological malignancies. Nature Immunology, 2016, 17, 1016-1024.	14.5	77
68	MED12 Regulates HSC-Specific Enhancers Independently of Mediator Kinase Activity to Control Hematopoiesis. Cell Stem Cell, 2016, 19, 784-799.	11.1	88
69	Mutant IDH1 Downregulates ATM and Alters DNA Repair and Sensitivity to DNA Damage Independent of TET2. Cancer Cell, 2016, 30, 337-348.	16.8	166
70	Regulation of transcriptional elongation in pluripotency and cell differentiation by the PHD-finger protein Phf5a. Nature Cell Biology, 2016, 18, 1127-1138.	10.3	57
71	Deregulation of DUX4 and ERG in acute lymphoblastic leukemia. Nature Genetics, 2016, 48, 1481-1489.	21.4	231
72	Active and Inactive Enhancers Cooperate to Exert Localized and Long-Range Control of Gene Regulation. Cell Reports, 2016, 15, 2159-2169.	6.4	35

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73	Cardiac Myocyte KLF5 Regulates Ppara Expression and Cardiac Function. Circulation Research, 2016, 118, 241-253.	4.5	88
74	The Impact of DNA Methylation in Hematopoietic Malignancies. Trends in Cancer, 2016, 2, 70-83.	7.4	68
75	Genomic analysis identifies new drivers and progression pathways in skin basal cell carcinoma. Nature Genetics, 2016, 48, 398-406.	21.4	370
76	The CUL4-DDB1 ubiquitin ligase complex controls adult and embryonic stem cell differentiation and homeostasis. ELife, 2015, 4, .	6.0	31
77	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. Cancer Cell, 2015, 27, 755-768.	16.8	216
78	FBXW7 modulates cellular stress response and metastatic potential through HSF1 post-translational modification. Nature Cell Biology, 2015, 17, 322-332.	10.3	134
79	The Pre-BCR to the Rescue: Therapeutic Targeting of Pre-B Cell ALL. Cancer Cell, 2015, 27, 321-323.	16.8	1
80	Limited miR-17-92 overexpression drives hematologic malignancies. Leukemia Research, 2015, 39, 335-341.	0.8	19
81	TET1 is a tumor suppressor of hematopoietic malignancy. Nature Immunology, 2015, 16, 653-662.	14.5	173
82	SRSF2 Mutations Contribute to Myelodysplasia by Mutant-Specific Effects on Exon Recognition. Cancer Cell, 2015, 27, 617-630.	16.8	449
83	The Methylcytosine Dioxygenase Tet2 Promotes DNA Demethylation and Activation of Cytokine Gene Expression in T Cells. Immunity, 2015, 42, 613-626.	14.3	264
84	Mutational Cooperativity Linked to Combinatorial Epigenetic Gain of Function in Acute Myeloid Leukemia. Cancer Cell, 2015, 27, 502-515.	16.8	191
85	Emerging roles for the FBXW7 ubiquitin ligase in leukemia and beyond. Current Opinion in Cell Biology, 2015, 37, 28-34.	5.4	22
86	Cohesin loss alters adult hematopoietic stem cell homeostasis, leading to myeloproliferative neoplasms. Journal of Experimental Medicine, 2015, 212, 1833-1850.	8.5	145
87	Cohesin loss alters adult hematopoietic stem cell homeostasis, leading to myeloproliferative neoplasms. Journal of Cell Biology, 2015, 211, 2111OIA225.	5.2	0
88	Control of Embryonic Stem Cell Identity by BRD4-Dependent Transcriptional Elongation of Super-Enhancer-Associated Pluripotency Genes. Cell Reports, 2014, 9, 234-247.	6.4	181
89	DNA Hydroxymethylation Profiling Reveals that WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. Cell Reports, 2014, 9, 1841-1855.	6.4	237
90	STAT3 supports experimental K-RasG12Dâ€“induced murine myeloproliferative neoplasms dependent on serine phosphorylation. Blood, 2014, 124, 2252-2261.	1.4	51

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91	Regulation of stem cell function by protein ubiquitylation. EMBO Reports, 2014, 15, 365-382.	4.5	57
92	Cyclin C is a haploinsufficient tumour suppressor. Nature Cell Biology, 2014, 16, 1080-1091.	10.3	124
93	Contrasting roles of histone 3 lysine 27 demethylases in acute lymphoblastic leukaemia. Nature, 2014, 514, 513-517.	27.8	340
94	Genome-wide Mapping and Characterization of Notch-Regulated Long Noncoding RNAs in Acute Leukemia. Cell, 2014, 158, 593-606.	28.9	397
95	From Fly Wings to Targeted Cancer Therapies: A Centennial for Notch Signaling. Cancer Cell, 2014, 25, 318-334.	16.8	318
96	SRSF2 Mutations Impair Hematopoietic Differentiation By Altering Exonic Splicing Enhancer Preference. Blood, 2014, 124, 824-824.	1.4	2
97	DNA Hydroxymethylation Profiling Reveals That WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. Blood, 2014, 124, 365-365.	1.4	0
98	Endothelial Jagged-1 Is Necessary for Homeostatic and Regenerative Hematopoiesis. Cell Reports, 2013, 4, 1022-1034.	6.4	224
99	Notch pathway activation targets AML-initiating cell homeostasis and differentiation. Journal of Experimental Medicine, 2013, 210, 301-319.	8.5	148
100	Regulation of c-Myc Ubiquitination Controls Chronic Myelogenous Leukemia Initiation and Progression. Cancer Cell, 2013, 23, 362-375.	16.8	111
101	InÂVivo Mapping of Notch Pathway Activity in Normal and Stress Hematopoiesis. Cell Stem Cell, 2013, 13, 190-204.	11.1	80
102	The Ubiquitin Ligase FBXW7 Modulates Leukemia-Initiating Cell Activity by Regulating MYC Stability. Cell, 2013, 153, 1552-1566.	28.9	277
103	Epigenetic Profiling Of Leukemia Stem Cells In a Model Of TET2/FLT3-Mutant AML. Blood, 2013, 122, 476-476.	1.4	0
104	New Design Of Human T-ALL Transplantation In NSG Mice Uncovers The Major Role Of CD31/PECAM1 In The Central Nervous System Infiltration. Blood, 2013, 122, 1436-1436.	1.4	0
105	Therapeutic Targeting of the Cyclin D3:CDK4/6 Complex in T Cell Leukemia. Cancer Cell, 2012, 22, 452-465.	16.8	162
106	Regulation of Pluripotency and Cellular Reprogramming by the Ubiquitin-Proteasome System. Cell Stem Cell, 2012, 11, 783-798.	11.1	235
107	Tet2 Facilitates the Derepression of Myeloid Target Genes during CEBPÎ±-Induced Transdifferentiation of Pre-B Cells. Molecular Cell, 2012, 48, 266-276.	9.7	85
108	Genetic inactivation of the polycomb repressive complex 2 in T cell acute lymphoblastic leukemia. Nature Medicine, 2012, 18, 298-302.	30.7	453

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109	Conditional Deletion of Asxl1 Results in Myelodysplasia. Blood, 2012, 120, 308-308.	1.4	0
110	A Role for TET2 Mutations in Paroxysmal Nocturnal Hemoglobinuria (PNH). Blood, 2012, 120, 1262-1262.	1.4	7
111	A novel tumour-suppressor function for the Notch pathway in myeloid leukaemia. Nature, 2011, 473, 230-233.	27.8	351
112	Tet2 Loss Leads to Increased Hematopoietic Stem Cell Self-Renewal and Myeloid Transformation. Cancer Cell, 2011, 20, 11-24.	16.8	1,105
113	ASXL1 Mutations Promote Myeloid Transformation Through Inhibition of PRC2-Mediated Gene Repression. Blood, 2011, 118, 405-405.	1.4	4
114	Evaluating Clonal Dominance in a Murine Knock-in Model of Jak2V617F MPN. Blood, 2011, 118, 614-614.	1.4	1
115	The Notch Signaling Pathway as a Suppressor of Myeloid Transformation. Blood, 2011, 118, SCI-13-SCI-13.	1.4	0
116	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
117	The Notch/Hes1 Pathway Sustains NF-Î¹B Activation through CYLD Repression in T Cell Leukemia. Cancer Cell, 2010, 18, 268-281.	16.8	261
118	Regulation of hematopoietic stem cell differentiation by a single ubiquitin ligaseâ€“substrate complex. Nature Immunology, 2010, 11, 207-215.	14.5	103
119	Î³-secretase inhibitors reverse glucocorticoid resistance in T cell acute lymphoblastic leukemia. Nature Medicine, 2009, 15, 50-58.	30.7	417
120	Molecular pathogenesis of T-cell leukaemia and lymphoma. Nature Reviews Immunology, 2008, 8, 380-390.	22.7	396
121	Control of hematopoietic stem cell quiescence by the E3 ubiquitin ligase Fbw7. Journal of Experimental Medicine, 2008, 205, 1395-1408.	8.5	157
122	Regulation of lymphocyte progenitor survival by the proapoptotic activities of Bim and Bid. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20840-20845.	7.1	44
123	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
124	Inhibition of NOTCH1 Signaling and Glucocorticoid Therapy in T-ALL. Blood, 2008, 112, 298-298.	1.4	3
125	The SCFFBW7 ubiquitin ligase complex as a tumor suppressor in T cell leukemia. Journal of Experimental Medicine, 2007, 204, 1825-1835.	8.5	427
126	Notches, NF-kBs and the Making of T Cell Leukemia. Cell Cycle, 2007, 6, 403-406.	2.6	15

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127	Targeting the NF-ÎºB signaling pathway in Notch1-induced T-cell leukemia. Nature Medicine, 2007, 13, 70-77.	30.7	315
128	Regulation of T-cell progenitor survival and cell-cycle entry by the pre-T-cell receptor. Immunological Reviews, 2006, 209, 159-169.	6.0	89
129	Requirement for cyclin D3 in lymphocyte development and T cell leukemias. Cancer Cell, 2003, 4, 451-461.	16.8	307
130	On the brink of becoming a T cell. Current Opinion in Immunology, 2002, 14, 200-206.	5.5	72