Timothy J Ley

List of Publications by Year in descending order

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TIMOTHYLLEY

#	Article	IF	CITATIONS
1	Genomic and Epigenomic Landscapes of Adult De Novo Acute Myeloid Leukemia. New England Journal of Medicine, 2013, 368, 2059-2074.	27.0	4,139
2	Mutational landscape and significance across 12 major cancer types. Nature, 2013, 502, 333-339.	27.8	3,695
3	Recurring Mutations Found by Sequencing an Acute Myeloid Leukemia Genome. New England Journal of Medicine, 2009, 361, 1058-1066.	27.0	2,009
4	Clonal evolution in relapsed acute myeloid leukaemia revealed by whole-genome sequencing. Nature, 2012, 481, 506-510.	27.8	1,795
5	<i>DNMT3A</i> Mutations in Acute Myeloid Leukemia. New England Journal of Medicine, 2010, 363, 2424-2433.	27.0	1,777
6	Age-related mutations associated with clonal hematopoietic expansion and malignancies. Nature Medicine, 2014, 20, 1472-1478.	30.7	1,533
7	The Origin and Evolution of Mutations in Acute Myeloid Leukemia. Cell, 2012, 150, 264-278.	28.9	1,365
8	DNA sequencing of a cytogenetically normal acute myeloid leukaemia genome. Nature, 2008, 456, 66-72.	27.8	1,275
9	Genome remodelling in a basal-like breast cancer metastasis and xenograft. Nature, 2010, 464, 999-1005.	27.8	1,077
10	Clonal Architecture of Secondary Acute Myeloid Leukemia. New England Journal of Medicine, 2012, 366, 1090-1098.	27.0	688
11	Role of TP53 mutations in the origin and evolution of therapy-related acute myeloid leukaemia. Nature, 2015, 518, 552-555.	27.8	685
12	<i>TP53</i> and Decitabine in Acute Myeloid Leukemia and Myelodysplastic Syndromes. New England Journal of Medicine, 2016, 375, 2023-2036.	27.0	663
13	SomaticSniper: identification of somatic point mutations in whole genome sequencing data. Bioinformatics, 2012, 28, 311-317.	4.1	566
14	Recurrent mutations in the U2AF1 splicing factor in myelodysplastic syndromes. Nature Genetics, 2012, 44, 53-57.	21.4	513
15	DGIdb: mining the druggable genome. Nature Methods, 2013, 10, 1209-1210.	19.0	443
16	SciClone: Inferring Clonal Architecture and Tracking the Spatial and Temporal Patterns of Tumor Evolution. PLoS Computational Biology, 2014, 10, e1003665.	3.2	400
17	The R882H DNMT3A Mutation Associated with AML Dominantly Inhibits Wild-Type DNMT3A by Blocking Its Ability to Form Active Tetramers. Cancer Cell, 2014, 25, 442-454.	16.8	374
18	Functional Heterogeneity of Genetically Defined Subclones in Acute Myeloid Leukemia. Cancer Cell, 2014, 25, 379-392.	16.8	330

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19	Immune Escape of Relapsed AML Cells after Allogeneic Transplantation. New England Journal of Medicine, 2018, 379, 2330-2341.	27.0	322
20	The Physician-Scientist Career Pipeline in 2005. JAMA - Journal of the American Medical Association, 2005, 294, 1343.	7.4	317
21	Association Between Mutation Clearance After Induction Therapy and Outcomes in Acute Myeloid Leukemia. JAMA - Journal of the American Medical Association, 2015, 314, 811.	7.4	302
22	Sudden death among patients with acute promyelocytic leukemia treated with arsenic trioxide. Blood, 2001, 98, 266-271.	1.4	233
23	Use of Whole-Genome Sequencing to Diagnose a Cryptic Fusion Oncogene. JAMA - Journal of the American Medical Association, 2011, 305, 1577.	7.4	233
24	Genomic analysis of germ line and somatic variants in familial myelodysplasia/acute myeloid leukemia. Blood, 2015, 126, 2484-2490.	1.4	207
25	The Physician cientist: Career Issues and Challenges at the Year 2000. FASEB Journal, 2000, 14, 221-230.	0.5	206
26	The Gender Gap in NIH Grant Applications. Science, 2008, 322, 1472-1474.	12.6	206
27	CpG Island Hypermethylation Mediated by DNMT3A Is a Consequence of AML Progression. Cell, 2017, 168, 801-816.e13.	28.9	177
28	Optimizing Cancer Genome Sequencing and Analysis. Cell Systems, 2015, 1, 210-223.	6.2	174
29	Genome Sequencing as an Alternative to Cytogenetic Analysis in Myeloid Cancers. New England Journal of Medicine, 2021, 384, 924-935.	27.0	170
30	Cellular stressors contribute to the expansion of hematopoietic clones of varying leukemic potential. Nature Communications, 2018, 9, 455.	12.8	150
31	A general approach for detecting expressed mutations in AML cells using single cell RNA-sequencing. Nature Communications, 2019, 10, 3660.	12.8	147
32	High-penetrance mouse model of acute promyelocytic leukemia with very low levels of PML-RARα expression. Blood, 2003, 102, 1857-1865.	1.4	139
33	Genomic impact of transient low-dose decitabine treatment on primary AML cells. Blood, 2013, 121, 1633-1643.	1.4	137
34	Visualizing tumor evolution with the fishplot package for R. BMC Genomics, 2016, 17, 880.	2.8	131
35	High throughput digital quantification of mRNA abundance in primary human acute myeloid leukemia samples. Journal of Clinical Investigation, 2009, 119, 1714-1726.	8.2	130
36	Clonal Architecture of Secondary Acute Myeloid Leukemia Defined by Single-Cell Sequencing. PLoS Genetics, 2014, 10, e1004462.	3.5	115

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37	Removing Career Obstacles for Young Physician-Scientists — Loan-Repayment Programs. New England Journal of Medicine, 2002, 346, 368-372.	27.0	96
38	Rapid expansion of preexisting nonleukemic hematopoietic clones frequently follows induction therapy for de novo AML. Blood, 2016, 127, 893-897.	1.4	94
39	Mutation Clearance after Transplantation for Myelodysplastic Syndrome. New England Journal of Medicine, 2018, 379, 1028-1041.	27.0	93
40	Sequencing a mouse acute promyelocytic leukemia genome reveals genetic events relevant for disease progression. Journal of Clinical Investigation, 2011, 121, 1445-1455.	8.2	91
41	Long non-coding RNA RAMS11 promotes metastatic colorectal cancer progression. Nature Communications, 2020, 11, 2156.	12.8	83
42	Reduced PU.1 expression causes myeloid progenitor expansion and increased leukemia penetrance in mice expressing PML-RARÂ. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12513-12518.	7.1	81
43	Haploinsufficiency for DNA methyltransferase 3A predisposes hematopoietic cells to myeloid malignancies. Journal of Clinical Investigation, 2017, 127, 3657-3674.	8.2	80
44	Granzyme B Plays a Critical Role in Cytotoxic Lymphocyte-induced Apoptosis. Immunological Reviews, 1995, 146, 211-221.	6.0	69
45	Clonal Architectures and Driver Mutations in Metastatic Melanomas. PLoS ONE, 2014, 9, e111153.	2.5	69
46	Co-evolution of tumor and immune cells during progression of multiple myeloma. Nature Communications, 2021, 12, 2559.	12.8	68
47	Genomic Landscapes and Clonality of De Novo AML. New England Journal of Medicine, 2013, 369, 1472-1473.	27.0	58
48	Seed Versus Soil: The Importance of the Target Cell for Transgenic Models of Human Leukemias. Blood, 1999, 93, 2143-2148.	1.4	56
49	A pilot study of high-throughput, sequence-based mutational profiling of primary human acute myeloid leukemia cell genomes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14275-14280.	7.1	55
50	Subclones dominate at MDS progression following allogeneic hematopoietic cell transplant. JCI Insight, 2018, 3, .	5.0	48
51	Decitabine in <i>TP53</i> -Mutated AML. New England Journal of Medicine, 2017, 376, 796-798.	27.0	45
52	Comprehensive genomic analysis reveals FLT3 activation and a therapeutic strategy for a patient with relapsed adult B-lymphoblastic leukemia. Experimental Hematology, 2016, 44, 603-613.	0.4	44
53	The clonal evolution of metastatic colorectal cancer. Science Advances, 2020, 6, eaay9691.	10.3	41
54	Whole Exome Sequencing Reveals the Order of Genetic Changes during Malignant Transformation and Metastasis in a Single Patient with NF1-plexiform Neurofibroma. Clinical Cancer Research, 2015, 21, 4201-4211.	7.0	39

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55	<i>MIR142</i> Loss-of-Function Mutations Derepress ASH1L to Increase <i>HOXA</i> Gene Expression and Promote Leukemogenesis. Cancer Research, 2018, 78, 3510-3521.	0.9	39
56	PML-RARA requires DNA methyltransferase 3A to initiate acute promyelocytic leukemia. Journal of Clinical Investigation, 2015, 126, 85-98.	8.2	36
57	Independent formation of Dnasel hypersensitive sites in the murine β-globin locus control region. Blood, 2000, 95, 3600-3604.	1.4	34
58	Obesity is a risk factor for acute promyelocytic leukemia: evidence from population and cross-sectional studies and correlation with FLT3 mutations and polyunsaturated fatty acid metabolism. Haematologica, 2020, 105, 1559-1566.	3.5	32
59	Notch signaling in acute promyelocytic leukemia. Leukemia, 2013, 27, 1548-1557.	7.2	28
60	Remethylation of <i>Dnmt3a</i> ^{â^'/â^'} hematopoietic cells is associated with partial correction of gene dysregulation and reduced myeloid skewing. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3123-3134.	7.1	27
61	Enhanced Efficacy and Increased Long-Term Toxicity of CNS-Directed, AAV-Based Combination Therapy for Krabbe Disease. Molecular Therapy, 2021, 29, 691-701.	8.2	27
62	Mutational landscape and response are conserved in peripheral blood of AML and MDS patients during decitabine therapy. Blood, 2017, 129, 1397-1401.	1.4	24
63	Immunosuppression and outcomes in adult patients with de novo acute myeloid leukemia with normal karyotypes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
64	Functional and epigenetic phenotypes of humans and mice with DNMT3A Overgrowth Syndrome. Nature Communications, 2021, 12, 4549.	12.8	21
65	Caspase-9 is required for normal hematopoietic development and protection from alkylator-induced DNA damage in mice. Blood, 2014, 124, 3887-3895.	1.4	20
66	Focal disruption of DNA methylation dynamics at enhancers in IDH-mutant AML cells. Leukemia, 2022, 36, 935-945.	7.2	18
67	Reduced beta-Globin Gene Expression in Adult Mice Containing Deletions of Locus Control Region 5' HS-2 or 5' HS-3a. Annals of the New York Academy of Sciences, 1998, 850, 45-53.	3.8	15
68	Expression and Function of PML-RARA in the Hematopoietic Progenitor Cells of Ctsg-PML-RARA Mice. PLoS ONE, 2012, 7, e46529.	2.5	15
69	Physicianâ€scientists in the United States at 2020: Trends and concerns. FASEB Journal, 2022, 36, e22253.	0.5	15
70	Tumor suppressor function of <i>Gata2</i> in acute promyelocytic leukemia. Blood, 2021, 138, 1148-1161.	1.4	14
71	Genetic and Transcriptional Contributions to Relapse in Normal Karyotype Acute Myeloid Leukemia. Blood Cancer Discovery, 2022, 3, 32-49.	5.0	14
72	Failure to Detect Mutations in U2AF1 due to Changes in the GRCh38 Reference Sequence. Journal of Molecular Diagnostics, 2022, 24, 219-223.	2.8	13

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73	Genetic Heterogeneity of Induced Pluripotent Stem Cells: Results from 24 Clones Derived from a Single C57BL/6 Mouse. PLoS ONE, 2015, 10, e0120585.	2.5	12
74	MCL1 Haploinsufficiency Protects Mice From MYC-Induced Acute Myeloid Leukemia Blood, 2009, 114, 764-764.	1.4	11
75	Convergent Clonal Evolution of Signaling Gene Mutations Is a Hallmark of Myelodysplastic Syndrome Progression. Blood Cancer Discovery, 2022, 3, 330-345.	5.0	10
76	Comprehensive discovery of noncoding RNAs in acute myeloid leukemia cell transcriptomes. Experimental Hematology, 2017, 55, 19-33.	0.4	9
77	Sequencing of Tumor DNA to Guide Cancer Risk Assessment and Therapy. JAMA - Journal of the American Medical Association, 2018, 319, 1497.	7.4	9
78	<i>DNMT3A</i> overgrowth syndrome is associated with the development of hematopoietic malignancies in children and young adults. Blood, 2022, 139, 461-464.	1.4	9
79	G-CSFSR Mutations Present in Patients with Severe Congenital Neutropenia Cooperate with PML-RARα To Induce Acute Myeloid Leukemia in Mice Blood, 2007, 110, 2193-2193.	1.4	8
80	DNMT3AR882-associated hypomethylation patterns are maintained in primary AML xenografts, but not in the DNMT3AR882C OCI-AML3 leukemia cell line. Blood Cancer Journal, 2018, 8, 38.	6.2	7
81	Dnmt3a deficiency in the skin causes focal, canonical DNA hypomethylation and a cellular proliferation phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2022760118.	7.1	6
82	AMD3100 Mobilizes Acute Promyelocytic Leukemia Cells from the Bone Marrow into the Peripheral Blood and Sensitizes Leukemia Cells to Chemotherapy Blood, 2005, 106, 246-246.	1.4	6
83	POU4F1 Is Associated with t(8;21) AML and Contributes Directly to Its Unique Transcriptional Signature Blood, 2009, 114, 2623-2623.	1.4	6
84	The Role Of Early TP53 Mutations On The Evolution Of Therapy-Related AML. Blood, 2013, 122, 5-5.	1.4	5
85	Recurrent Transcriptional Responses in AML and MDS patients Treated with Decitabine. Experimental Hematology, 2022, , .	0.4	5
86	Impact of a 40-Gene Targeted Panel Test on Physician Decision Making for Patients With Acute Myeloid Leukemia. JCO Precision Oncology, 2021, 5, 191-203.	3.0	4
87	Genomic DNA Copy Number Alterations Present in AML Bone Marrow Samples with Normal Cytogenetics Blood, 2004, 104, 142-142.	1.4	4
88	DNMT3A R882H Overexpression Leads To Hematopoietic and Skin Alterations In Transgenic Mice. Blood, 2013, 122, 479-479.	1.4	4
89	Tumor suppressor function of <i>WT1</i> in acute promyelocytic leukemia. Haematologica, 2021, , .	3.5	4
90	Clonal Evolution of Acute Myeloid Leukemia Following Allogeneic Stem Cell Transplantation. Blood, 2016, 128, 1528-1528.	1.4	4

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91	IL-1β expression in bone marrow dendritic cells is induced by TLR2 agonists and regulates HSC function. Blood, 2022, 140, 1607-1620.	1.4	4
92	Whole-Genome Bisulfite Sequencing of Primary AML Cells with the DNMT3A R882H Mutation Identifies Regions of Focal Hypomethylation That Are Associated with Open Chromatin. Blood, 2014, 124, 608-608.	1.4	3
93	Dynamic Changes in the Clonal Structure of MDS and AML in Response to Epigenetic Therapy. Blood, 2015, 126, 610-610.	1.4	3
94	Obesity As a Risk Factor for Acute Promyelocytic Leukemia. Results from Population and Case-Control Studies Across Western Countries and Correlation with Gene Expression in the TCGA. Blood, 2016, 128, 448-448.	1.4	3
95	DNMT3A Mutations in Acute Myeloid Leukemia. Blood, 2011, 118, SCI-31-SCI-31.	1.4	3
96	DNMT3A-Dependent DNA Methylation May Act As a Tumor Suppressor-Not a Tumor Promoter-during AML Progression. Blood, 2016, 128, 1050-1050.	1.4	3
97	RETROSPECTIVE: Stanley Joel Korsmeyer (1950-2005). Science, 2005, 308, 803-804.	12.6	2
98	CXCR4/SDF-1 Is a Key Regulator for Leukemia Migration and Homing to the BM: Impact of AMD3100 on In Vivo Response to Chemotherapy Blood, 2006, 108, 569-569.	1.4	2
99	Recurrent Somatic Genomic Alterations in Follicular NHL (FL) Revealed By Exome and Custom-Capture Next Generation Sequencing. Blood, 2015, 126, 574-574.	1.4	2
100	Comprehensive Evaluation of MicroRNA Genes and Gene Expression Using Next Generation Sequencing in a Patient with Acute Myelogenous Leukemia Blood, 2009, 114, 271-271.	1.4	2
101	Decitabine salvage for <i>TP53</i> -mutated, relapsed/refractory acute myeloid leukemia after cytotoxic induction therapy. Haematologica, 2022, 107, 1709-1713.	3.5	2
102	Somatic Dnmt3a inactivation leads to slow, canonical DNA methylation loss in murine hematopoietic cells. IScience, 2022, 25, 104004.	4.1	2
103	IL-12 Stimulates Interferon-Gamma Mediated Inhibition of Tumor-Induced Regulatory T Cell Proliferation and Enhances Tumor Clearance. Blood, 2008, 112, 2558-2558.	1.4	1
104	DNMT3A R882H Overexpression Acts in a Dominant Negative Manner to Cause DNA Hypomethylation and Increased Susceptibility to Hematopoietic Malignancies in Transgenic Mice. Blood, 2014, 124, 609-609.	1.4	1
105	Dynamic Changes in Clonal Clearance with Decitabine Therapy in AML and MDS Patients. Blood, 2015, 126, 689-689.	1.4	1
106	Chromatin Immunoprecipitation of GFP-Tagged PML-Rara Coupled to High-Throughput Next Generation Sequencing Blood, 2009, 114, 1276-1276.	1.4	1
107	Clonal Evolution Revealed by Whole Genome Sequencing in a Case of Primary Myelofibrosis Transformed to Secondary Acute Myeloid Leukemia. Blood, 2012, 120, 706-706.	1.4	1
108	Myeloproliferative Disease and Myeloid Leukemia in Dnmt3a Haploinsufficient Mice. Blood, 2014, 124, 890-890.	1.4	1

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109	1998 ASCI Presidential Address. Journal of Clinical Investigation, 2003, 112, S9-11.	8.2	1
110	Orphan Granzymes Downstream from Granzyme B Are Important for Tumor Clearance In Vivo and in Vitro Blood, 2004, 104, 2653-2653.	1.4	0
111	Neutrophil Elastase Is Important for Several Activities of PML-RARα in Early Myeloid Cells Blood, 2004, 104, 486-486.	1.4	0
112	Transcriptome Analysis of Murine Myeloid Development Blood, 2005, 106, 2724-2724.	1.4	0
113	Identification of PML-RARa Target Genes Using Microarray and ChIP-on-Chip Analysis Blood, 2005, 106, 2994-2994.	1.4	0
114	A Protease-Resistant PML-RARα Has Increased Leukemogenic Potential in a Murine Model of Acute Promyelocytic Leukemia (APL) Blood, 2008, 112, 930-930.	1.4	0
115	Latent Murine Herpesvirus-4 Infection Arms NK Cells Blood, 2009, 114, 3678-3678.	1.4	0
116	DNA Sequencing of a Murine Acute Promyelocytic Leukemia (APL) Genome Using Next Generation Technology Blood, 2009, 114, 3965-3965.	1.4	0
117	Recurrent DNMT3A Mutations In Patients with Myelodysplastic Syndrome. Blood, 2010, 116, 608-608.	1.4	0
118	The NK Cell MicroRNA Transcriptome Defined by Next-Generation Sequencing Identifies IL-15-Signaled Alterations In Mature MiR-223 Expression, and MiR-223 as a Potential Regulator of Murine Granzyme B. Blood, 2010, 116, 104-104.	1.4	0
119	Activation of Notch Signaling Is An Early Event in the Development of PML-Rara-Induced Acute Promyelocytic Leukemia (APL). Blood, 2011, 118, 2468-2468.	1.4	0
120	Functional Hematopoietic Cells Derived From Mouse Embryonic Stem Cells Blood, 2012, 120, 2304-2304.	1.4	0
121	Dysregulation of the Imprinted DLK1-DIO3 Locus in Promyelocytic Leukemia. Blood, 2012, 120, 3500-3500.	1.4	0
122	Whole Genome Sequencing Reveals Novel Recurring Somatic Mutations Affecting HUWE1 and DIAPH2 Genes in Multiple Myeloma. Blood, 2012, 120, 320-320.	1.4	0
123	In Vitro Decitabine Treatment Demonstrates Heterogeneous Changes in Methylation and Gene Expression in Primary AML Samples Blood, 2012, 120, 2527-2527.	1.4	0
124	Subclonal "skewing―Of De Novo AML Samples After Engraftment In Immunodeficient Mice. Blood, 2013, 122, 609-609.	1.4	0
125	Rare Hematopoietic Subclones Harboring Leukemogenic TP53 Mutations Are Detectable Via Error-Corrected Sequencing in Healthy Elderly Individuals. Blood, 2014, 124, 2907-2907.	1.4	0
126	Whole Genome Bisulfite Sequencing of Purified Mouse Promyelocytes Reveals Differentially Methylated Regions in Cells Expressing PML-Rara. Blood, 2014, 124, 3531-3531.	1.4	0

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127	Reprogramming of Leukemic and Pre-Leukemic Cells from Primary Human De Novo Acute Myeloid Leukemia Samples into Induced Pluripotent Stem (iPS) Cells. Blood, 2015, 126, 1862-1862.	1.4	0
128	Detection of Clonal Hematopoiesis in Cytopenic Patients Using Targeted Sequencing. Blood, 2015, 126, 1654-1654.	1.4	0
129	Non-Malignant Oligoclonal Hematopoiesis Commonly Follows Cytoreductive Chemotherapy in Adult De Novo AML Patients. Blood, 2015, 126, 686-686.	1.4	Ο
130	Adverse Outcomes in Acute Myeloid Leukemia Are Associated with Tumor Cell-Mediated Immunosuppression. Blood, 2021, 138, 800-800.	1.4	0
131	<i>Dnmt3a</i> Inactivation Leads to Slow DNA Methylation Loss in Murine Hematopoietic Cells <i>In Vivo</i> . Blood, 2021, 138, 1087-1087.	1.4	Ο
132	Signaling Gene Mutations Are Characterized By Diverse Patterns of Expansion and Contraction during Progression from MDS to Secondary AML. Blood, 2020, 136, 2-3.	1.4	0
133	Molecular Profiling of Decitabine Response in MDS and AML Patients. Blood, 2020, 136, 40-40.	1.4	Ο
134	Comparison of Deep Whole Exome Versus Targeted Gene Sequencing for Assessment of Persistent Molecular Disease in Acute Myeloid Leukemia Samples. Blood, 2020, 136, 6-7.	1.4	0