Scott A Armstrong

List of Publications by Year
in descending order

133 papers	14,868 citations	34105 52 h-index	19749 117 g-index
137 all docs	137 docs citations	137 times ranked	17533 citing authors

#	Article	IF	Citations
1	MLL translocations specify a distinct gene expression profile that distinguishes a unique leukemia. Nature Genetics, 2002, 30, 41-47.	21.4	1,720
2	Transformation from committed progenitor to leukaemia stem cell initiated by MLLâ€“AF9. Nature, 2006, 442, 818-822.	27.8	1,317
3	MLL translocations, histone modifications and leukaemia stem-cell development. Nature Reviews Cancer, 2007, 7, 823-833.	28.4	1,039
4	Selective Killing of Mixed Lineage Leukemia Cells by a Potent Small-Molecule DOT1L Inhibitor. Cancer Cell, 2011, 20, 53-65.	16.8	842
5	MLL-Rearranged Leukemia Is Dependent on Aberrant H3K79 Methylation by DOT1L. Cancer Cell, 2011, 20, 66-78.	16.8	791
6	H3K79 Methylation Profiles Define Murine and Human MLL-AF4 Leukemias. Cancer Cell, 2008, 14, 355-368.	16.8	494
7	Inhibition of FLT3 in MLL. Cancer Cell, 2003, 3, 173-183.	16.8	389
8	The DOT1L inhibitor pinometostat reduces H3K79 methylation and has modest clinical activity in adult acute leukemia. Blood, 2018, 131, 2661-2669.	1.4	313
9	Acute Myelogenous Leukemia-Induced Sympathetic Neuropathy Promotes Malignancy in an Altered Hematopoietic Stem Cell Niche. Cell Stem Cell, 2014, 15, 365-375.	11.1	308
10	Mediator kinase inhibition further activates super-enhancer-associated genes in AML. Nature, 2015, 526, 273-276.	27.8	307
11	Modulation of splicing catalysis for therapeutic targeting of leukemia with mutations in genes encoding spliceosomal proteins. Nature Medicine, 2016, 22, 672-678.	30.7	301
12	HOXA9 is required for survival in human MLL-rearranged acute leukemias. Blood, 2009, 113, 2375-2385.	1.4	292
13	A dominant-negative effect drives selection of TP53 missense mutations in myeloid malignancies. Science, 2019, 365, 599-604.	12.6	265
14	FLT3 mutations in childhood acute lymphoblastic leukemia. Blood, 2004, 103, 3544-3546.	1.4	235
15	A Menin-MLL Inhibitor Induces Specific Chromatin Changes and Eradicates Disease in Models of MLL-Rearranged Leukemia. Cancer Cell, 2019, 36, 660-673.e11.	16.8	231
16	PI3K pathway regulates ER-dependent transcription in breast cancer through the epigenetic regulator KMT2D. Science, 2017, 355, 1324-1330.	12.6	217
17	Genetic and Pharmacologic Inhibition of Î²-Catenin Targets Imatinib-Resistant Leukemia Stem Cells in CML. Cell Stem Cell, 2012, 10, 412-424.	11.1	209
18	Degradation of the BAF Complex Factor BRD9 by Heterobifunctional Ligands. Angewandte Chemie - International Edition, 2017, 56, 5738-5743.	13.8	207

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19	ENL links histone acetylation to oncogenic gene expression in acute myeloid leukaemia. Nature, 2017, 543, 265-269.	27.8	203
20	DOT1L inhibits SIRT1-mediated epigenetic silencing to maintain leukemic gene expression in MLL-rearranged leukemia. Nature Medicine, 2015, 21, 335-343.	30.7	200
21	DNMT3A mutations promote anthracycline resistance in acute myeloid leukemia via impaired nucleosome remodeling. Nature Medicine, 2016, 22, 1488-1495.	30.7	195
22	DNA-damage-induced differentiation of leukaemic cells as an anti-cancer barrier. Nature, 2014, 514, 107-111.	27.8	174
23	A UTX-MLL4-p300 Transcriptional Regulatory Network Coordinately Shapes Active Enhancer Landscapes for Eliciting Transcription. Molecular Cell, 2017, 67, 308-321.e6.	9.7	172
24	Mutations in epigenetic regulators including SETD2 are gained during relapse in paediatric acute lymphoblastic leukaemia. Nature Communications, 2014, 5, 3469.	12.8	171
25	Targeting Chromatin Regulators Inhibits Leukemogenic Gene Expression in NPM1 Mutant Leukemia. Cancer Discovery, 2016, 6, 1166-1181.	9.4	171
26	CDK9-mediated transcription elongation is required for MYC addiction in hepatocellular carcinoma. Genes and Development, 2014, 28, 1800-1814.	5.9	167
27	Myeloid progenitor cluster formation drives emergency and leukaemic myelopoiesis. Nature, 2017, 544, 53-58.	27.8	155
28	AF10 Regulates Progressive H3K79 Methylation and HOX Gene Expression in Diverse AML Subtypes. Cancer Cell, 2014, 26, 896-908.	16.8	153
29	Leukemic transformation by the MLL-AF6 fusion oncogene requires the H3K79 methyltransferase Dot1l. Blood, 2013, 121, 2533-2541.	1.4	149
30	Therapeutic targeting of preleukemia cells in a mouse model of NPM1 mutant acute myeloid leukemia. Science, 2020, 367, 586-590.	12.6	145
31	Requirement for CDK6 in MLL-rearranged acute myeloid leukemia. Blood, 2014, 124, 13-23.	1.4	139
32	Targeted degradation of BRD9 reverses oncogenic gene expression in synovial sarcoma. ELife, 2018, 7, .	6.0	125
33	Exploiting the Epigenome to Control Cancer-Promoting Gene-Expression Programs. Cancer Cell, 2016, 29, 464-476.	16.8	122
34	Conditional MLL-CBP targets GMP and models therapy-related myeloproliferative disease. EMBO Journal, 2005, 24, 368-381.	7.8	111
35	NUP98 Fusion Proteins Interact with the NSL and MLL1 Complexes to Drive Leukemogenesis. Cancer Cell, 2016, 30, 863-878.	16.8	111
36	SETD2 alterations impair DNA damage recognition and lead to resistance to chemotherapy in leukemia. Blood, 2017, 130, 2631-2641.	1.4	102

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37	Targeting DOT1L and HOX gene expression in MLL-rearranged leukemia and beyond. Experimental Hematology, 2015, 43, 673-684.	0.4	97
38	Hematopoietic Differentiation Is Required for Initiation of Acute Myeloid Leukemia. Cell Stem Cell, 2015, 17, 611-623.	11.1	97
39	A Non-catalytic Function of SETD1A Regulates Cyclin K and the DNA Damage Response. Cell, 2018, 172, 1007-1021.e17.	28.9	97
40	HOXA9 Reprograms the Enhancer Landscape to Promote Leukemogenesis. Cancer Cell, 2018, 34, 643-658.e5.	16.8	94
41	LSD1 inhibition exerts its antileukemic effect by recommissioning PU.1- and C/EBPÎ±-dependent enhancers in AML. Blood, 2018, 131, 1730-1742.	1.4	92
42	The PZP Domain of AF10 Senses Unmodified H3K27 to Regulate DOT1L-Mediated Methylation of H3K79. Molecular Cell, 2015, 60, 319-327.	9.7	78
43	JMJD1C is required for the survival of acute myeloid leukemia by functioning as a coactivator for key transcription factors. Genes and Development, 2015, 29, 2123-2139.	5.9	76
44	Functional screen of MSI2 interactors identifies an essential role for SYNCRIP in myeloid leukemia stem cells. Nature Genetics, 2017, 49, 866-875.	21.4	75
45	Telomerase Inhibition Effectively Targets Mouse and Human AML Stem Cells and Delays Relapse following Chemotherapy. Cell Stem Cell, 2014, 15, 775-790.	11.1	74
46	PGBD5 promotes site-specific oncogenic mutations in human tumors. Nature Genetics, 2017, 49, 1005-1014.	21.4	69
47	MLL-AF9â€“ and HOXA9-mediated acute myeloid leukemia stem cell self-renewal requires JMJD1C. Journal of Clinical Investigation, 2016, 126, 997-1011.	8.2	69
48	Peptidomimetic blockade of MYB in acute myeloid leukemia. Nature Communications, 2018, 9, 110.	12.8	68
49	IKZF2 Drives Leukemia Stem Cell Self-Renewal and Inhibits Myeloid Differentiation. Cell Stem Cell, 2019, 24, 153-165.e7.	11.1	66
50	Ezh2 Controls an Early Hematopoietic Program and Growth and Survival Signaling in Early T Cell Precursor Acute Lymphoblastic Leukemia. Cell Reports, 2016, 14, 1953-1965.	6.4	65
51	Targeting the kinase activities of ATR and ATM exhibits antitumoral activity in mouse models of MLL -rearranged AML. Science Signaling, 2016, 9, ra91.	3.6	63
52	MLL-rearranged leukemias: insights from gene expression profiling. Seminars in Hematology, 2003, 40, 268-273.	3.4	61
53	MEF2C Phosphorylation Is Required forÂChemotherapy Resistance in Acute Myeloid Leukemia. Cancer Discovery, 2018, 8, 478-497.	9.4	59
54	Synergistic targeting of FLT3 mutations in AML via combined menin-MLL and FLT3 inhibition. Blood, 2020, 136, 2442-2456.	1.4	59

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55	Selective Inhibition of HDAC1 and HDAC2 as a Potential Therapeutic Option for B-ALL. Clinical Cancer Research, 2015, 21, 2348-2358.	7.0	57
56	Targeting chromatin complexes in fusion protein-driven malignancies. Nature Reviews Cancer, 2019, 19, 255-269.	28.4	55
57	Chromatin modifications as therapeutic targets in MLL-rearranged leukemia. Trends in Immunology, 2012, 33, 563-570.	6.8	52
58	The cell fate determinant Llgl1 influences HSC fitness and prognosis in AML. Journal of Experimental Medicine, 2013, 210, 15-22.	8.5	47
59	Drugging Chromatin in Cancer: Recent Advances and Novel Approaches. Molecular Cell, 2015, 60, 561-570.	9.7	47
60	Mixed-Lineage Leukemia Fusions and Chromatin in Leukemia. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a026658.	6.2	46
61	MLL partial tandem duplication leukemia cells are sensitive to small molecule DOT1L inhibition. Haematologica, 2015, 100, e190-e193.	3.5	45
62	miR-99 regulates normal and malignant hematopoietic stem cell self-renewal. Journal of Experimental Medicine, 2017, 214, 2453-2470.	8.5	44
63	The menin-MLL1 interaction is a molecular dependency in NUP98-rearranged AML. Blood, 2022, 139, 894-906.	1.4	42
64	The role of DOT1L in the maintenance of leukemia gene expression. Current Opinion in Genetics and Development, 2016, 36, 68-72.	3.3	41
65	Histone Acetyltransferase Activity of MOF Is Required for MLL-AF9 Leukemogenesis. Cancer Research, 2017, 77, 1753-1762.	0.9	38
66	Myeloid Leukemia Cells With MLL partial Tandem Duplication Are Sensitive To Pharmacological Inhibition Of The H3K79 Methyltransferase DOT1L. Blood, 2013, 122, 1256-1256.	1.4	35
67	MLL1 and DOT1L cooperate with meningioma-1 to induce acute myeloid leukemia. Journal of Clinical Investigation, 2016, 126, 1438-1450.	8.2	33
68	A chromatin-independent role of Polycomb-like 1 to stabilize p53 and promote cellular quiescence. Genes and Development, 2015, 29, 2231-2243.	5.9	32
69	Antigen presentation safeguards the integrity of the hematopoietic stem cell pool. Cell Stem Cell, 2022, 29, 760-775.e10.	11.1	29
70	Menin Inhibitors in Acute Myeloid Leukemiaâ€"What Does the Future Hold?. Cancer Journal (Sudbury,) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	28
71	Resistance Mechanisms to SYK Inhibition in Acute Myeloid Leukemia. Cancer Discovery, 2020, 10, 214-231.	9.4	27
72	Evolutionarily Conserved Signaling Pathways: Acting in the Shadows of Acute Myelogenous Leukemia's Genetic Diversity. Clinical Cancer Research, 2015, 21, 240-248.	7.0	25

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73	Novel inhibitors of the histone methyltransferase DOT1L show potent antileukemic activity in patient-derived xenografts. Blood, 2020, 136, 1983-1988.	1.4	25
74	Inhibition Of LSD1 As a Therapeutic Strategy For The Treatment Of Acute Myeloid Leukemia. Blood, 2013, 122, 3964-3964.	1.4	25
75	Oncogenic Gene-Expression Programs in Leiomyosarcoma and Characterization of Conventional, Inflammatory, and Uterogenic Subtypes. Molecular Cancer Research, 2020, 18, 1302-1314.	3.4	24
76	Leukemia Cell of Origin Influences Apoptotic Priming and Sensitivity to LSD1 Inhibition. Cancer Discovery, 2020, 10, 1500-1513.	9.4	24
77	High-resolution characterization of gene function using single-cell CRISPR tiling screen. Nature Communications, 2021, 12, 4063.	12.8	23
78	Designed to Kill: Novel Menin-MLL Inhibitors Target MLL -Rearranged Leukemia. Cancer Cell, 2015, 27, 431-433.	16.8	22
79	MLL::AF9 degradation induces rapid changes in transcriptional elongation and subsequent loss of an active chromatin landscape. Molecular Cell, 2022, 82, 1140-1155.e11.	9.7	21
80	Structure-Guided DOT1L Probe Optimization by Label-Free Ligand Displacement. ACS Chemical Biology, 2015, 10, 667-674.	3.4	20
81	Inactivation of Eed impedes MLL-AF9â€“mediated leukemogenesis through Cdkn2a-dependent and Cdkn2a-independent mechanisms in a murine model. Experimental Hematology, 2015, 43, 930-935.e6.	0.4	20
82	Gastrointestinal stromal tumor enhancers support a transcription factor network predictive of clinical outcome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5746-E5755.	7.1	20
83	Paediatric Strategy Forum for medicinal product development of epigenetic modifiers for children. European Journal of Cancer, 2020, 139, 135-148.	2.8	20
84	YBX1 mediates translation of oncogenic transcripts to control cell competition in AML. Leukemia, 2022, 36, 426-437.	7.2	18
85	Transmembrane Inhibitor of RICTOR/mTORC2 in Hematopoietic Progenitors. Stem Cell Reports, 2014, 3, 832-840.	4.8	17
86	Rationale for targeting BCL6 in MLL-rearranged acute lymphoblastic leukemia. Genes and Development, 2019, 33, 1265-1279.	5.9	17
87	Enhancer Domains in Gastrointestinal Stromal Tumor Regulate KIT Expression and Are Targetable by BET Bromodomain Inhibition. Cancer Research, 2019, 79, 994-1009.	0.9	17
88	IKAROS and MENIN coordinate therapeutically actionable leukemogenic gene expression in MLL-r acute myeloid leukemia. Nature Cancer, 2022, 3, 595-613.	13.2	16
89	Acute myeloid leukemia driven by the CALM-AF10 fusion gene is dependent on BMI1. Experimental Hematology, 2019, 74, 42-51.e3.	0.4	15
90	Degradation of the BAF Complex Factor BRD9 by Heterobifunctional Ligands. Angewandte Chemie, 2017, 129, 5832-5837.	2.0	14

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91	HAND1 and BARX1 Act as Transcriptional and Anatomic Determinants of Malignancy in Gastrointestinal Stromal Tumor. Clinical Cancer Research, 2021, 27, 1706-1719.	7.0	14
92	SETD2 Haploinsufficiency Enhances Germinal Centerâ€“Associated AICDA Somatic Hypermutation to Drive B-cell Lymphomagenesis. Cancer Discovery, 2022, 12, 1782-1803.	9.4	14
93	Pathprinting: An integrative approach to understand the functional basis of disease. Genome Medicine, 2013, 5, 68.	8.2	13
94	Forward genetic screen of human transposase genomic rearrangements. BMC Genomics, 2016, 17, 548.	2.8	13
95	Chromatin Complexes Maintain Self-Renewal of Myeloid Progenitors in AML: Opportunities for Therapeutic Intervention. Stem Cell Reports, 2020, 15, 6-12.	4.8	13
96	Targeting Chromatin Complexes in Myeloid Malignancies and Beyond: From Basic Mechanisms to Clinical Innovation. Cells, 2020, 9, 2721.	4.1	13
97	Inhibition of MEK and ATR is effective in a B-cell acute lymphoblastic leukemia model driven by Mll-Af4 and activated Ras. Blood Advances, 2018, 2, 2478-2490.	5.2	12
98	MOZ and Meninâ€“MLL Complexes Are Complementary Regulators of Chromatin Association and Transcriptional Output in Gastrointestinal Stromal Tumor. Cancer Discovery, 2022, 12, 1804-1823.	9.4	10
99	Genomic approaches to the pathogenesis and treatment of acute lymphoblastic leukemias. Current Opinion in Hematology, 2002, 9, 339-344.	2.5	9
100	A JAK/STAT-mediated inflammatory signaling cascade drives oncogenesis in AF10-rearranged AML. Blood, 2021, 137, 3403-3415.	1.4	8
101	Genome-Wide Identification of Prednisolone-Responsive Genes in Primary Acute Lymphoblastic Leukemia Cells.. Blood, 2005, 106, 103-103.	1.4	8
102	Itâ€™s Not What You Say But How You Say It: Targeting RNA Methylation in AML. Molecular Cell, 2020, 78, 996-998.	9.7	6
103	Loss of H3K36 Methyltransferase SETD2 Impairs V(D)J Recombination during Lymphoid Development. IScience, 2020, 23, 100941.	4.1	6
104	Location, Location, Location: Mutant NPM1c Cytoplasmic Localization Is Required to Maintain Stem Cell Genes in AML. Cancer Cell, 2018, 34, 355-357.	16.8	5
105	Genomic Dark Matter Sheds Light on EVI1-Driven Leukemia. Cancer Cell, 2014, 25, 407-408.	16.8	4
106	Histone PTM Crosstalk Stimulates Dot1 Methyltransferase Activity. Trends in Biochemical Sciences, 2021, 46, 522-524.	7.5	4
107	Genome-Wide RNAi Screen Identifies The Mechanistic Role For DOT1L In MLL-Rearranged Leukemia. Blood, 2013, 122, 598-598.	1.4	4
108	Bone Marrow Surveillance of Pediatric Cancer Survivors Identifies Clones that Predict Therapy-Related Leukemia. Clinical Cancer Research, 2022, 28, 1614-1627.	7.0	4

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109	Haploinsufficiency of Dnmt1 Impairs Leukemia Stem Cell Function Through Derepression of Bivalent Chromatin Domains,. Blood, 2011, 118, 3459-3459.	1.4	3
110	Taspase1 orchestrates fetal liver hematopoietic stem cell and vertebrae fates through cleaving TFIIA. JCI Insight, 2021, 6, .	5.0	2
111	Patient Derived Xenograft (PDX) Models Faithfully Recapitulate The Genetic Composition Of Primary AML. Blood, 2013, 122, 1328-1328.	1.4	2
112	Identification Of Actionable Genomic Alterations In Hematologic Malignancies By a Clinical Next Generation Sequencing-Based Assay. Blood, 2013, 122, 230-230.	1.4	2
113	Regulation Of Normal and Malignant Hoxa Gene Expression Through Higher H3K79 Methylated States. Blood, 2013, 122, 2492-2492.	1.4	2
114	HoxA9 Knockdown Inhibits Proliferation and Induces Cell Death in Human MLL-Rearranged Leukemias.. Blood, 2006, 108, 734-734.	1.4	2
115	Potent Ikaros Degradation By the Cereblon E3 Ligase Modulator CC-92480 Is Effective in Combination with Menin-MLL1 Inhibition in MLL1-Rearranged and NPM1-Mutant AML. Blood, 2021, 138, 208-208.	1.4	2
116	Selective Killing of Mixed Lineage Leukemia Cells by a Potent Small-Molecule DOT1L Inhibitor. Blood, 2010, 116, 780-780.	1.4	1
117	Î²-Catenin Suppression Targets Imatinib Resistant Leukemia Stem Cells In Mice with BCR-ABL Induced Myeloproliferative Disease. Blood, 2010, 116, 93-93.	1.4	1
118	Bmi-1 Is Dispensable for the Development of Acute Myeloid Leukemia Mediated by MLL-AF9. Blood, 2010, 116, 63-63.	1.4	1
119	MLL Rearranged Infant Acute Lymphoblastic Leukemia Is Characterized by Silencing of the Putative Tumor Suppressor Gene FHIT.. Blood, 2004, 104, 525-525.	1.4	0
120	MLL-AF9 and FLT3 Cooperation during Myeloid Leukemogenesis: Development of a Model for Rapid Testing of New Therapeutics.. Blood, 2005, 106, 1605-1605.	1.4	0
121	HOXA9 Represses Bim Expression in MLL Rearranged Leukemia: Implications for Drug Therapy.. Blood, 2007, 110, 57-57.	1.4	0
122	Hoxa9+Meis1a Efficiently Transform Hematopoietic Stem Cells but Not Committed Progenitors.. Blood, 2007, 110, 3375-3375.	1.4	0
123	A Pilot Trial of Rapamycin with Glucocorticoids In Children and Adults with Relapsed ALL. Blood, 2010, 116, 3244-3244.	1.4	0
124	Demonstration of a Role for Dot1l In MLL-Rearranged Leukemia Using a Conditional Loss of Function Model. Blood, 2010, 116, 62-62.	1.4	0
125	Targeting BCL6-Mediated Drug-Resistance in High-Risk Childhood ALL. Blood, 2012, 120, 776-776.	1.4	0
126	The Interaction Between DOT1L and AF10 Is Required for H3K79 Dimethylation and MLL-AF9 Leukemia. Blood, 2012, 120, 401-401.	1.4	0

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127	Inhibition Of Telomerase Is a Novel and Effective Therapy In MLL-Rearranged Acute Myeloid Leukemia (AML). Blood, 2013, 122, 2887-2887.	1.4	0
128	Acute Myeloid Leukemia Alters The Mesenchymal Stem Cell Potential Of The HSC Niche: Evidence For Modulation By Î²-Adrenergic Signals. Blood, 2013, 122, 342-342.	1.4	0
129	Identification Of BCL6 As a Therapeutic Target In MLL-Rearranged ALL. Blood, 2013, 122, 72-72.	1.4	0
130	Peptidomimetic Blockade of MYB in Acute Myeloid Leukemia. Blood, 2016, 128, 3945-3945.	1.4	0
131	Aberrant Phosphorylation of MEF2C Is Dispensable for Hematopoiesis, and Induces Chemotherapy Resistance and Susceptibility to MARK Kinase Inhibition Therapy in Acute Myeloid Leukemia. Blood, 2016, 128, 436-436.	1.4	0
132	Oncogenic Feedback Activation Between BCL6 and MLL Promotes Malignant Transformation in MLL-RearrangedAcute Lymphoblastic Leukemia. Blood, 2016, 128, 907-907.	1.4	0
133	Comparison of human genomics and genetic models of cancer to identify novel therapeutic targets. Cell Cycle, 2003, 2, 408-9.	2.6	0