Adrian Francis Stewart

List of Publications by Year
in descending order

76	9,998	81900 39	74163 75
papers	citations	h-index	g-index

86	86	86	15600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved dsDNA recombineering enables versatile multiplex genome engineering of kilobase-scale sequences in diverse bacteria. Nucleic Acids Research, 2022, 50, e15-e15.	14.5	8
2	Postnatal expression of the lysine methyltransferase SETD1B is essential for learning and the regulation of neuronâ€enriched genes. EMBO Journal, 2022, 41, e106459.	7.8	7
3	Loss of histone methyltransferase SETD1B in oogenesis results in the redistribution of genomic histone 3 lysine 4 trimethylation. Nucleic Acids Research, 2022, 50, 1993-2004.	14.5	13
4	Epigenetic modifier balances Mapk and Wnt signalling in differentiation of goblet and Paneth cells. Life Science Alliance, 2022, 5, e202101187.	2.8	6
5	Cooperative genetic networks drive embryonic stem cell transition from naÃ¯ve to formative pluripotency. EMBO Journal, 2021, 40, e105776.	7.8	31
6	MLL1 is required for maintenance of intestinal stem cells. PLoS Genetics, 2021, 17, e1009250.	3.5	5
7	Protein-Assisted Room-Temperature Assembly of Rigid, Immobile Holliday Junctions and Hierarchical DNA Nanostructures. Molecules, 2020, 25, 5099.	3.8	1
8	RedEx: a method for seamless DNA insertion and deletion in large multimodular polyketide synthase gene clusters. Nucleic Acids Research, 2020, 48, e130-e130.	14.5	23
9	The epigenetic regulator Mll1 is required for Wnt-driven intestinal tumorigenesis and cancer stemness. Nature Communications, 2020, 11, 6422.	12.8	38
10	MLL4 is required after implantation whereas MLL3 becomes essential during late gestation. Development (Cambridge), 2020, 147, .	2.5	18
11	New methods for extracting function from the mammalian genome. Methods, 2019, 164-165, 1-2.	3.8	1
12	Deficiency and haploinsufficiency of histone macroH2A1.1 in mice recapitulate hematopoietic defects of human myelodysplastic syndrome. Clinical Epigenetics, 2019, 11, 121.	4.1	21
13	MLL1 is required for PAX7 expression and satellite cell self-renewal in mice. Nature Communications, 2019, 10, 4256.	12.8	31
14	Single-Stranded DNA-Binding Protein and Exogenous RecBCD Inhibitors Enhance Phage-Derived Homologous Recombination in Pseudomonas. IScience, 2019, 14, 1-14.	4.1	43
15	The Set1 complex is dimeric and acts with Jhd2 demethylation to convey symmetrical H3K4 trimethylation. Genes and Development, 2019, 33, 550-564.	5.9	24
16	Proteomic navigation using proximity-labeling. Methods, 2019, 164-165, 67-72.	3.8	6
17	Twenty-Seven Tamoxifen-Inducible iCre-Driver Mouse Strains for Eye and Brain, Including Seventeen Carrying a New Inducible-First Constitutive-Ready Allele. Genetics, 2019, 211, 1155-1177.	2.9	17
18	Enhanced Heterologous Spinosad Production from a 79-kb Synthetic Multioperon Assembly. ACS Synthetic Biology, 2019, 8, 137-147.	3.8	39

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19	Expressing cytotoxic compounds in Escherichia coli Nissle 1917 for tumor-targeting therapy. Research in Microbiology, 2019, 170, 74-79.	2.1	48
20	Distinct pathways affected by menin versus MLL1/MLL2 in MLL-rearranged acute myeloid leukemia. Experimental Hematology, 2019, 69, 37-42.	0.4	13
21	SETD1A protects HSCs from activation-induced functional decline in vivo. Blood, 2018, 131, 1311-1324.	1.4	47
22	ExoCET: exonuclease in vitro assembly combined with RecET recombination for highly efficient direct DNA cloning from complex genomes. Nucleic Acids Research, 2018, 46, e28-e28.	14.5	96
23	MLL2 conveys transcription-independent H3K4 trimethylation in oocytes. Nature Structural and Molecular Biology, 2018, 25, 73-82.	8.2	127
24	Kmt2b conveys monovalent and bivalent H3K4me3 in mouse spermatogonial stem cells at germline and embryonic promoters. Development (Cambridge), 2018, 145, .	2.5	26
25	Human adenovirus type 17 from species D transduces endothelial cells and human CD46 is involved in cell entry. Scientific Reports, 2018, 8, 13442.	3.3	10
26	KMT2B Is Selectively Required for Neuronal Transdifferentiation, and Its Loss Exposes Dystonia Candidate Genes. Cell Reports, 2018, 25, 988-1001.	6.4	28
27	The H3K4 methyltransferase Setd1b is essential for hematopoietic stem and progenitor cell homeostasis in mice. ELife, 2018, 7, .	6.0	34
28	Heterologous Production and Yield Improvement of Epothilones in Burkholderiales Strain DSM 7029. ACS Chemical Biology, 2017, 12, 1805-1812.	3.4	48
29	The histone 3 lysine 4 methyltransferase Setd1b is a maternal effect gene required for the oogenic gene expression program. Development (Cambridge), 2017, 144, 2606-2617.	2.5	44
30	The contribution of homology arms to nuclease-assisted genome engineering. Nucleic Acids Research, 2017, 45, 8105-8115.	14.5	23
31	An Engineered Virus Library as a Resource for the Spectrum-wide Exploration of Virus and Vector Diversity. Cell Reports, 2017, 19, 1698-1709.	6.4	49
32	MLL2, Not MLL1, Plays a Major Role in Sustaining MLL-Rearranged Acute Myeloid Leukemia. Cancer Cell, 2017, 31, 755-770.e6.	16.8	72
33	KMT2A and KMT2B Mediate Memory Function by Affecting Distinct Genomic Regions. Cell Reports, 2017, 20, 538-548.	6.4	77
34	lncRNA Panct1 Maintains Mouse Embryonic Stem Cell Identity by Regulating TOBF1 Recruitment to Oct-Sox Sequences in Early G1. Cell Reports, 2017, 21, 3012-3021.	6.4	35
35	RAC-tagging: Recombineering And Cas9-assisted targeting for protein tagging and conditional analyses. Scientific Reports, 2016, 6, 25529.	3.3	22
36	Neuronal Deletion of Kmt2a/Mll1 Histone Methyltransferase in Ventral Striatum is Associated with Defective Spike-Timing-Dependent Striatal Synaptic Plasticity, Altered Response to Dopaminergic Drugs, and Increased Anxiety. Neuropsychopharmacology, 2016, 41, 3103-3113.	5.4	40

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37	msVolcano: A flexible web application for visualizing quantitative proteomics data. Proteomics, 2016, 16, 2491-2494.	2.2	16
38	Regular Nanoscale Protein Patterns via Directed Adsorption through Self-Assembled DNA Origami Masks. ACS Applied Materials & Interfaces, 2016, 8, 31239-31247.	8.0	52
39	DNA annealing by RedÎ² is insufficient for homologous recombination and the additional requirements involve intra- and inter-molecular interactions. Scientific Reports, 2016, 6, 34525.	3.3	15
40	RecET direct cloning and RedÎ±Î² recombineering of biosynthetic gene clusters, large operons or single genes for heterologous expression. Nature Protocols, 2016, 11, 1175-1190.	12.0	132
41	Mutation of cancer driverMLL2results in transcription stress and genome instability. Genes and Development, 2016, 30, 408-420.	5.9	112
42	The Role of MLL1 and MLL2 in MLL Fusion Oncoprotein-Initiated Leukemia. Blood, 2016, 128, 573-573.	1.4	0
43	Systems Analyses Reveal Shared and Diverse Attributes of Oct4 Regulation in Pluripotent Cells. Cell Systems, 2015, 1, 141-151.	6.2	15
44	A Single-Strand Annealing Protein Clamps DNA to Detect and Secure Homology. PLoS Biology, 2015, 13, e1002213.	5.6	22
45	Neuronal Kmt2a/Mll1 Histone Methyltransferase Is Essential for Prefrontal Synaptic Plasticity and Working Memory. Journal of Neuroscience, 2015, 35, 5097-5108.	3.6	126
46	RAP1-mediated MEK/ERK pathway defects in Kabuki syndrome. Journal of Clinical Investigation, 2015, 125, 3585-3599.	8.2	69
47	Mll2 is required for H3K4 trimethylation on bivalent promoters in embryonic stem cells, whereas Mll1 is redundant. Development (Cambridge), 2014, 141, 526-537.	2.5	225
48	The H3K4 methyltransferase Setd1a is first required at the epiblast stage, whereas Setd1b becomes essential after gastrulation. Development (Cambridge), 2014, 141, 1022-1035.	2.5	166
49	Synthetic CpG islands reveal DNA sequence determinants of chromatin structure. ELife, 2014, 3, e03397.	6.0	95
50	The histone demethylase UTX regulates stem cell migration and hematopoiesis. Blood, 2013, 121, 2462-2473.	1.4	93
51	The Histone Methyltransferase KMT2B Is Required for RNA Polymerase II Association and Protection from DNA Methylation at the MagohB CpG Island Promoter. Molecular and Cellular Biology, 2013, 33, 1383-1393.	2.3	33
52	Histone-Methyltransferase MLL2 (KMT2B) Is Required for Memory Formation in Mice. Journal of Neuroscience, 2013, 33, 3452-3464.	3.6	121
53	The Histone Methyltransferase Wbp7 Controls Macrophage Function through GPI Glycolipid Anchor Synthesis. Immunity, 2012, 36, 572-585.	14.3	79
54	Full-length RecE enhances linear-linear homologous recombination and facilitates direct cloning for bioprospecting. Nature Biotechnology, 2012, 30, 440-446.	17.5	375

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55	Recombineering, transfection, Western, IP and ChIP methods for protein tagging via gene targeting or BAC transgenesis. Methods, 2011, 53, 437-452.	3.8	33
56	A conditional knockout resource for the genome-wide study of mouse gene function. Nature, 2011, 474, 337-342.	27.8	1,488
57	An improved Flp deleter mouse in C57Bl/6 based on Flpo recombinase. Genesis, 2010, 48, 512-520.	1.6	128
58	MLL2 Is Required in Oocytes for Bulk Histone 3 Lysine 4 Trimethylation and Transcriptional Silencing. PLoS Biology, 2010, 8, e1000453.	5.6	220
59	A Practical Summary of Site-Specific Recombination, Conditional Mutagenesis, and Tamoxifen Induction of CreERT2. Methods in Enzymology, 2010, 477, 109-123.	1.0	53
60	A Recombineering Pipeline to Make Conditional Targeting Constructs. Methods in Enzymology, 2010, 477, 125-144.	1.0	75
61	Dre recombinase, like Cre, is a highly efficient site-specific recombinase in E. coli, mammalian cells and mice. DMM Disease Models and Mechanisms, 2009, 2, 508-515.	2.4	254
62	The histone 3 lysine 4 methyltransferase, Mll2, is only required briefly in development and spermatogenesis. Epigenetics and Chromatin, 2009, 2, 5.	3.9	154
63	Conformational Adaptability of Redî² during DNA Annealing and Implications for Its Structural Relationship with Rad52. Journal of Molecular Biology, 2009, 391, 586-598.	4.2	73
64	Multiple epigenetic maintenance factors implicated by the loss of Mll2 in mouse development. Development (Cambridge), 2006, 133, 1423-1432.	2.5	245
65	Protein Interactions within the Set1 Complex and Their Roles in the Regulation of Histone 3 Lysine 4 Methylation. Journal of Biological Chemistry, 2006, 281, 35404-35412.	3.4	142
66	A reliable lacZ expression reporter cassette for multipurpose, knockout-first alleles. Genesis, 2004, 38, 151-158.	1.6	186
67	High Conservation of the Set1/Rad6 Axis of Histone 3 Lysine 4 Methylation in Budding and Fission Yeasts. Journal of Biological Chemistry, 2003, 278, 8487-8493.	3.4	84
68	Efficient FLP recombination in mouse ES cells and oocytes. Genesis, 2001, 31, 6-10.	1.6	151
69	High-efficiency deleter mice show that FLPe is an alternative to Cre-loxP. Nature Genetics, 2000, 25, 139-140.	21.4	1,073
70	DNA cloning by homologous recombination in Escherichia coli. Nature Biotechnology, 2000, 18, 1314-1317.	17.5	376
71	Rapid modification of bacterial artificial chromosomes by ET- recombination. Nucleic Acids Research, 1999, 27, 1555-1557.	14.5	475
72	A new logic for DNA engineering using recombination in Escherichia coli. Nature Genetics, 1998, 20, 123-128.	21.4	1,123

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73	Temporally and spatially regulated somatic mutagenesis in mice. Nucleic Acids Research, 1998, 26, 1427-1432.	14.5	173
74	The Kw Recombinase, an Integrase from Kluyveromyces Waltii. FEBS Journal, 1997, 248, 903-912.	0.2	11
75	Heterodimerization of the Drosophila ecdysone receptor with retinoid X receptor and ultraspiracle. Nature, 1993, 362, 471-475.	27.8	512
76	Analysis of combinatorial chemokine receptor expression dynamics using multi-receptor reporter mice. ELife, 0, 11, .	6.0	12