

# A Francis Stewart

## List of Publications by Year in descending order

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102  
papers

15,425  
citations

25034

57  
h-index

34986

98  
g-index

105  
all docs

105  
docs citations

105  
times ranked

20917  
citing authors

#	ARTICLE	IF	CITATIONS
1	A conditional knockout resource for the genome-wide study of mouse gene function. <i>Nature</i> , 2011, 474, 337-342.	27.8	1,488
2	A new logic for DNA engineering using recombination in <i>Escherichia coli</i> . <i>Nature Genetics</i> , 1998, 20, 123-128.	21.4	1,123
3	High-efficiency deleter mice show that FLPe is an alternative to Cre-loxP. <i>Nature Genetics</i> , 2000, 25, 139-140.	21.4	1,073
4	The Transcriptional and Epigenomic Foundations of Ground State Pluripotency. <i>Cell</i> , 2012, 149, 590-604.	28.9	774
5	BAC TransgeneOmics: a high-throughput method for exploration of protein function in mammals. <i>Nature Methods</i> , 2008, 5, 409-415.	19.0	568
6	High-throughput engineering of the mouse genome coupled with high-resolution expression analysis. <i>Nature Biotechnology</i> , 2003, 21, 652-659.	17.5	549
7	Heterodimerization of the <i>Drosophila</i> ecdysone receptor with retinoid X receptor and ultraspiracle. <i>Nature</i> , 1993, 362, 471-475.	27.8	512
8	Rapid modification of bacterial artificial chromosomes by ET- recombination. <i>Nucleic Acids Research</i> , 1999, 27, 1555-1557.	14.5	475
9	DNA cloning by homologous recombination in <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , 2000, 18, 1314-1317.	17.5	376
10	Full-length RecE enhances linear-linear homologous recombination and facilitates direct cloning for bioprospecting. <i>Nature Biotechnology</i> , 2012, 30, 440-446.	17.5	375
11	Improved properties of FLP recombinase evolved by cycling mutagenesis. <i>Nature Biotechnology</i> , 1998, 16, 657-662.	17.5	374
12	The mammalian gene function resource: the international knockout mouse consortium. <i>Mammalian Genome</i> , 2012, 23, 580-586.	2.2	292
13	Dre recombinase, like Cre, is a highly efficient site-specific recombinase in <i>E. coli</i> , mammalian cells and mice. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 508-515.	2.4	254
14	A Genome-Scale Resource for In Vivo Tag-Based Protein Function Exploration in <i>C.Âlegans</i> . <i>Cell</i> , 2012, 150, 855-866.	28.9	253
15	A Genome-Scale RNAi Screen for Oct4 Modulators Defines a Role of the Paf1 Complex for Embryonic Stem Cell Identity. <i>Cell Stem Cell</i> , 2009, 4, 403-415.	11.1	252
16	The <i>S. cerevisiae</i> SET3 complex includes two histone deacetylases, Hos2 and Hst1, and is a meiotic-specific repressor of the sporulation gene program. <i>Genes and Development</i> , 2001, 15, 2991-3004.	5.9	250
17	Multiple epigenetic maintenance factors implicated by the loss of Mll2 in mouse development. <i>Development (Cambridge)</i> , 2006, 133, 1423-1432.	2.5	245
18	Mll2 is required for H3K4 trimethylation on bivalent promoters in embryonic stem cells, whereas Mll1 is redundant. <i>Development (Cambridge)</i> , 2014, 141, 526-537.	2.5	225

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19	Meiotic homologue alignment and its quality surveillance are controlled by mouse <i>HORMAD1</i> . <i>Nature Cell Biology</i> , 2011, 13, 599-610.	10.3	207
20	The European dimension for the mouse genome mutagenesis program. <i>Nature Genetics</i> , 2004, 36, 925-927.	21.4	195
21	A reliable <i>lacZ</i> expression reporter cassette for multipurpose, knockout-first alleles. <i>Genesis</i> , 2004, 38, 151-158.	1.6	186
22	A recombineering pipeline for functional genomics applied to <i>Caenorhabditis elegans</i> . <i>Nature Methods</i> , 2006, 3, 839-844.	19.0	180
23	Heterologous Expression of a Myxobacterial Natural Products Assembly Line in <i>Pseudomonads</i> via Red/ET Recombineering. <i>Chemistry and Biology</i> , 2005, 12, 349-356.	6.0	176
24	Temporally and spatially regulated somatic mutagenesis in mice. <i>Nucleic Acids Research</i> , 1998, 26, 1427-1432.	14.5	173
25	The H3K4 methyltransferase <i>Setd1a</i> is first required at the epiblast stage, whereas <i>Setd1b</i> becomes essential after gastrulation. <i>Development (Cambridge)</i> , 2014, 141, 1022-1035.	2.5	166
26	<i>RecE/RecT</i> and <i>Red<math>\beta</math>/Red<math>\gamma</math></i> initiate double-stranded break repair by specifically interacting with their respective partners. <i>Genes and Development</i> , 2000, 14, 1971-1982.	5.9	157
27	The histone 3 lysine 4 methyltransferase, <i>Mll2</i> , is only required briefly in development and spermatogenesis. <i>Epigenetics and Chromatin</i> , 2009, 2, 5.	3.9	154
28	Current issues in mouse genome engineering. <i>Nature Genetics</i> , 2005, 37, 1187-1193.	21.4	153
29	Efficient FLP recombination in mouse ES cells and oocytes. <i>Genesis</i> , 2001, 31, 6-10.	1.6	151
30	Alteration of Cre recombinase site specificity by substrate-linked protein evolution. <i>Nature Biotechnology</i> , 2001, 19, 1047-1052.	17.5	147
31	The histone 3 lysine 36 methyltransferase, <i>SET2</i> , is involved in transcriptional elongation. <i>Nucleic Acids Research</i> , 2003, 31, 2475-2482.	14.5	138
32	<i>RecET</i> direct cloning and <i>Red<math>\beta</math>/Red<math>\gamma</math></i> recombineering of biosynthetic gene clusters, large operons or single genes for heterologous expression. <i>Nature Protocols</i> , 2016, 11, 1175-1190.	12.0	132
33	Point mutation of bacterial artificial chromosomes by ET recombination. <i>EMBO Reports</i> , 2000, 1, 239-243.	4.5	131
34	Efficient transfer of two large secondary metabolite pathway gene clusters into heterologous hosts by transposition. <i>Nucleic Acids Research</i> , 2008, 36, e113-e113.	14.5	128
35	An improved Flp deleter mouse in C57Bl/6 based on Flpo recombinase. <i>Genesis</i> , 2010, 48, 512-520.	1.6	128
36	<i>MLL2</i> conveys transcription-independent H3K4 trimethylation in oocytes. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 73-82.	8.2	127

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37	Engineering the mouse genome with bacterial artificial chromosomes to create multipurpose alleles. <i>Nature Biotechnology</i> , 2003, 21, 443-447.	17.5	126
38	An Improved Recombineering Approach by Adding RecA to $\lambda$ Red Recombination. <i>Molecular Biotechnology</i> , 2006, 32, 043-054.	2.4	121
39	Improved seamless mutagenesis by recombineering using ccdB for counterselection. <i>Nucleic Acids Research</i> , 2014, 42, e37-e37.	14.5	113
40	Transposon-mediated BAC transgenesis in human ES cells. <i>Nucleic Acids Research</i> , 2012, 40, e150-e150.	14.5	109
41	Chromatin Central: towards the comparative proteome by accurate mapping of the yeast proteomic environment. <i>Genome Biology</i> , 2008, 9, R167.	9.6	106
42	Single-stranded heteroduplex intermediates in $\lambda$ Red homologous recombination. <i>BMC Molecular Biology</i> , 2010, 11, 54.	3.0	104
43	Phage annealing proteins promote oligonucleotide-directed mutagenesis in <i>Escherichia coli</i> and mouse ES cells. <i>BMC Molecular Biology</i> , 2003, 4, 1.	3.0	103
44	In Vivo Evidence for a Prodrug Activation Mechanism during Colibactin Maturation. <i>ChemBioChem</i> , 2013, 14, 1194-1197.	2.6	101
45	ExoCET: exonuclease in vitro assembly combined with RecET recombination for highly efficient direct DNA cloning from complex genomes. <i>Nucleic Acids Research</i> , 2018, 46, e28-e28.	14.5	96
46	Increased Apoptosis and Skewed Differentiation in Mouse Embryonic Stem Cells Lacking the Histone Methyltransferase Mll2. <i>Molecular Biology of the Cell</i> , 2007, 18, 2356-2366.	2.1	93
47	The histone demethylase UTX regulates stem cell migration and hematopoiesis. <i>Blood</i> , 2013, 121, 2462-2473.	1.4	93
48	Sustained Pax6 Expression Generates Primate-like Basal Radial Glia in Developing Mouse Neocortex. <i>PLoS Biology</i> , 2015, 13, e1002217.	5.6	93
49	A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs. <i>Nucleic Acids Research</i> , 1996, 24, 3118-3119.	14.5	87
50	High Conservation of the Set1/Rad6 Axis of Histone 3 Lysine 4 Methylation in Budding and Fission Yeasts. <i>Journal of Biological Chemistry</i> , 2003, 278, 8487-8493.	3.4	84
51	Reconstitution of the Myxothiazol Biosynthetic Gene Cluster by Red/ET Recombination and Heterologous Expression in <i>Myxococcus xanthus</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 7485-7494.	3.1	81
52	A Recombineering Pipeline to Make Conditional Targeting Constructs. <i>Methods in Enzymology</i> , 2010, 477, 125-144.	1.0	75
53	Conformational Adaptability of Red $\beta$ during DNA Annealing and Implications for Its Structural Relationship with Rad52. <i>Journal of Molecular Biology</i> , 2009, 391, 586-598.	4.2	73
54	Stepwise Manipulation of DNA Specificity in Flp Recombinase: Progressively Adapting Flp to Individual and Combinatorial Mutations in its Target Site. <i>Journal of Molecular Biology</i> , 2003, 326, 65-76.	4.2	70

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55	Metabolic Engineering of <i>Pseudomonas putida</i> for Methylmalonyl-CoA Biosynthesis to Enable Complex Heterologous Secondary Metabolite Formation. <i>Chemistry and Biology</i> , 2006, 13, 1253-1264.	6.0	66
56	Room temperature electrocompetent bacterial cells improve DNA transformation and recombineering efficiency. <i>Scientific Reports</i> , 2016, 6, 24648.	3.3	66
57	Deciphering Protein Complexes and Protein Interaction Networks by Tandem Affinity Purification and Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2002, 1, 204-212.	3.8	62
58	Iron overload in adult Hfe-deficient mice independent of changes in the steady-state expression of the duodenal iron transporters DMT1 and Ireg1/ferroportin. <i>Journal of Molecular Medicine</i> , 2004, 82, 39-48.	3.9	61
59	The <i>Schizosaccharomyces pombe</i> JmjC-Protein, Msc1, Prevents H2A.Z Localization in Centromeric and Subtelomeric Chromatin Domains. <i>PLoS Genetics</i> , 2009, 5, e1000726.	3.5	61
60	A new recombineering system for <i>Photorhabdus</i> and <i>Xenorhabdus</i> . <i>Nucleic Acids Research</i> , 2015, 43, e36-e36.	14.5	54
61	A Practical Summary of Site-Specific Recombination, Conditional Mutagenesis, and Tamoxifen Induction of CreERT2. <i>Methods in Enzymology</i> , 2010, 477, 109-123.	1.0	53
62	High-efficiency counterselection recombineering for site-directed mutagenesis in bacterial artificial chromosomes. <i>Nature Methods</i> , 2012, 9, 103-109.	19.0	52
63	Direct cloning and heterologous expression of the salinomycin biosynthetic gene cluster from <i>Streptomyces albus</i> DSM41398 in <i>Streptomyces coelicolor</i> A3(2). <i>Scientific Reports</i> , 2015, 5, 15081.	3.3	49
64	An Engineered Virus Library as a Resource for the Spectrum-wide Exploration of Virus and Vector Diversity. <i>Cell Reports</i> , 2017, 19, 1698-1709.	6.4	49
65	Heterologous Production and Yield Improvement of Epothilones in <i>Burkholderiales</i> Strain DSM 7029. <i>ACS Chemical Biology</i> , 2017, 12, 1805-1812.	3.4	48
66	Expressing cytotoxic compounds in <i>Escherichia coli</i> Nissle 1917 for tumor-targeting therapy. <i>Research in Microbiology</i> , 2019, 170, 74-79.	2.1	48
67	A Comparative Analysis of an Orthologous Proteomic Environment in the Yeasts <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> . <i>Molecular and Cellular Proteomics</i> , 2004, 3, 125-132.	3.8	44
68	Single-Stranded DNA-Binding Protein and Exogenous RecBCD Inhibitors Enhance Phage-Derived Homologous Recombination in <i>Pseudomonas</i> . <i>IScience</i> , 2019, 14, 1-14.	4.1	43
69	Enhanced Heterologous Spinosad Production from a 79-kb Synthetic Multioperon Assembly. <i>ACS Synthetic Biology</i> , 2019, 8, 137-147.	3.8	39
70	A dual reporter screening system identifies the amino acid at position 82 in Flp site-specific recombinase as a determinant for target specificity. <i>Nucleic Acids Research</i> , 2002, 30, 1656-1663.	14.5	37
71	lncRNA Panct1 Maintains Mouse Embryonic Stem Cell Identity by Regulating TOBF1 Recruitment to Oct-Sox Sequences in Early G1. <i>Cell Reports</i> , 2017, 21, 3012-3021.	6.4	35
72	Recombineering, transfection, Western, IP and CHIP methods for protein tagging via gene targeting or BAC transgenesis. <i>Methods</i> , 2011, 53, 437-452.	3.8	33

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73	Recombineering reagents for improved inducible expression and selection marker re-use in <i>Schizosaccharomyces pombe</i> . <i>Yeast</i> , 2006, 23, 813-823.	1.7	32
74	Recombineering BAC transgenes for protein tagging. <i>Methods</i> , 2011, 53, 113-119.	3.8	32
75	Genome engineering of <i>Agrobacterium tumefaciens</i> using the lambda Red recombination system. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2165-2172.	3.6	31
76	Kmt2b conveys monovalent and bivalent H3K4me3 in mouse spermatogonial stem cells at germline and embryonic promoters. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	26
77	Transposon mediated BAC transgenesis via pronuclear injection of mouse zygotes. <i>Genesis</i> , 2013, 51, 135-141.	1.6	25
78	ET-Cloning: Think Recombination First. , 2000, 22, 77-98.		24
79	BAC Engineering for the Generation of ES Cell-Targeting Constructs and Mouse Transgenes. , 2004, 256, 123-140.		24
80	Engineering Embryonic Stem Cells with Recombinase Systems. <i>Methods in Enzymology</i> , 2006, 420, 100-136.	1.0	24
81	The Set1 complex is dimeric and acts with Jhd2 demethylation to convey symmetrical H3K4 trimethylation. <i>Genes and Development</i> , 2019, 33, 550-564.	5.9	24
82	ET Recombination: DNA Engineering Using Homologous Recombination in <i>E. coli</i> . , 2004, 256, 107-122.		23
83	The contribution of homology arms to nuclease-assisted genome engineering. <i>Nucleic Acids Research</i> , 2017, 45, 8105-8115.	14.5	23
84	RedEx: a method for seamless DNA insertion and deletion in large multimodular polyketide synthase gene clusters. <i>Nucleic Acids Research</i> , 2020, 48, e130-e130.	14.5	23
85	A Single-Strand Annealing Protein Clamps DNA to Detect and Secure Homology. <i>PLoS Biology</i> , 2015, 13, e1002213.	5.6	22
86	RAC-tagging: Recombineering And Cas9-assisted targeting for protein tagging and conditional analyses. <i>Scientific Reports</i> , 2016, 6, 25529.	3.3	22
87	The best control for the specificity of RNAi. <i>Trends in Biotechnology</i> , 2005, 23, 446-448.	9.3	18
88	MLL4 is required after implantation whereas MLL3 becomes essential during late gestation. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	18
89	Systems Analyses Reveal Shared and Diverse Attributes of Oct4 Regulation in Pluripotent Cells. <i>Cell Systems</i> , 2015, 1, 141-151.	6.2	15
90	DNA annealing by Red $\beta$ 2 is insufficient for homologous recombination and the additional requirements involve intra- and inter-molecular interactions. <i>Scientific Reports</i> , 2016, 6, 34525.	3.3	15

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91	Targeted isolation of cloned genomic regions by recombineering for haplotype phasing and isogenic targeting. <i>Nucleic Acids Research</i> , 2011, 39, e137-e137.	14.5	14
92	Positive and Negative Discrimination of Estrogen Receptor Agonists and Antagonists Using Site-Specific DNA Recombinase Fusion Proteins. <i>Molecular Endocrinology</i> , 1998, 12, 1120-1132.	3.7	13
93	Recombination-Mediated Genetic Engineering of Large Genomic DNA Transgenes. <i>Methods in Molecular Biology</i> , 2012, 772, 445-458.	0.9	13
94	Gene Targeting and Site-Specific Recombination in Mouse ES Cells. <i>Methods in Enzymology</i> , 2013, 533, 133-155.	1.0	11
95	â€œCre/loxP plus BACâ€ a strategy for direct cloning of large DNA fragment and its applications in <i>Photobacterium luminescens</i> and <i>Agrobacterium tumefaciens</i> . <i>Scientific Reports</i> , 2016, 6, 29087.	3.3	10
96	Improved dsDNA recombineering enables versatile multiplex genome engineering of kilobase-scale sequences in diverse bacteria. <i>Nucleic Acids Research</i> , 2022, 50, e15-e15.	14.5	8
97	Microinjection of BAC DNA into the Pronuclei of Fertilized Mouse Oocytes. , 2004, 256, 141-158.		5
98	A Practical Guide to in and <i>Xenorhabdus</i> . <i>Current Topics in Microbiology and Immunology</i> , 2016, 402, 195-213.	1.1	4
99	Lambda Red Mediated Gap Repair Utilizes a Novel Replicative Intermediate in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2015, 10, e0120681.	2.5	3
100	Engineering of ES Cell Genomes with Recombinase Systems. , 2004, , 609-622.		2
101	New methods for extracting function from the mammalian genome. <i>Methods</i> , 2019, 164-165, 1-2.	3.8	1
102	Protein-Assisted Room-Temperature Assembly of Rigid, Immobile Holliday Junctions and Hierarchical DNA Nanostructures. <i>Molecules</i> , 2020, 25, 5099.	3.8	1