Steven Russell

List of Publications by Year
in descending order

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101 papers	7,411 citations	94269 37 h-index	64668 79 g-index
114 all docs	114 docs citations	114 times ranked	9197 citing authors

#	Article	IF	Citations
1	Identification of Functional Elements and Regulatory Circuits by Drosophila modENCODE. Science, 2010, 330, 1787-1797.	6.0	1,124
2	A CRISPR-Cas9 gene drive system targeting female reproduction in the malaria mosquito vector Anopheles gambiae. Nature Biotechnology, 2016, 34, 78-83.	9.4	985
3	A cis-regulatory map of the Drosophila genome. Nature, 2011, 471, 527-531.	13.7	477
4	FlyMine: an integrated database for Drosophila and Anopheles genomics. Genome Biology, 2007, 8, R129.	13.9	345
5	The DrosDel Collection. Genetics, 2004, 167, 797-813.	1.2	342
6	A Comprehensive Map of Insulator Elements for the Drosophila Genome. PLoS Genetics, 2010, 6, e1000814.	1.5	305
7	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	6.0	254
8	The DrosDel Deletion Collection: A Drosophila Genomewide Chromosomal Deficiency Resource. Genetics, 2007, 177, 615-629.	1.2	197
9	A comprehensive gene expression atlas of sex- and tissue-specificity in the malaria vector, Anopheles gambiae. BMC Genomics, 2011, 12, 296.	1.2	169
10	CTCF Genomic Binding Sites in Drosophila and the Organisation of the Bithorax Complex. PLoS Genetics, 2007, 3, e112.	1.5	162
11	Analysis of the expression patterns, subcellular localisations and interaction partners of Drosophila proteins using a pigP protein trap library. Development (Cambridge), 2014, 141, 3994-4005.	1.2	160
12	Proposed methods for testing and selecting the ERCC external RNA controls. BMC Genomics, 2005, 6, 150.	1.2	130
13	Evidence for differential and redundant function of the Sox genesDichaeteandSoxNduring CNS development inDrosophila. Development (Cambridge), 2002, 129, 4219-4228.	1.2	120
14	Transposable elements as tools for genomics and genetics in Drosophila. Briefings in Functional Genomics & Proteomics, 2003, 2, 57-71.	3.8	99
15	Sex-Specific Apoptosis Regulates Sexual Dimorphism in the Drosophila Embryonic Gonad. Developmental Cell, 2003, 5, 205-216.	3.1	95
16	Male-Specific Fruitless Isoforms Target Neurodevelopmental Genes to Specify a Sexually Dimorphic Nervous System. Current Biology, 2014, 24, 229-241.	1.8	95
17	Gene expression during Drosophila melanogaster egg development before and after reproductive diapause. BMC Genomics, 2009, 10, 242.	1.2	93
18	Stability and Dynamics of Polycomb Target Sites in Drosophila Development. PLoS Genetics, 2008, 4, e1000178.	1.5	88

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19	No backbone but lots of Sox: Invertebrate Sox genes. International Journal of Biochemistry and Cell Biology, 2010, 42, 453-464.	1.2	79
20	Robotic spotting of cDNA and oligonucleotide microarrays. Trends in Biotechnology, 2005, 23, 374-379.	4.9	76
21	Genomic analysis of heat-shock factor targets in Drosophila. Genome Biology, 2005, 6, R63.	13.9	76
22	Chromatin signatures at Notchâ€regulated enhancers reveal largeâ€scale changes in H3K56ac upon activation. EMBO Journal, 2015, 34, 1889-1904.	3.5	76
23	In Vivo Analysis of Proteomes and Interactomes Using Parallel Affinity Capture (iPAC) Coupled to Mass Spectrometry. Molecular and Cellular Proteomics, 2011, 10, M110.002386.	2.5	69
24	Roles of cofactors and chromatin accessibility in Hox protein target specificity. Epigenetics and Chromatin, 2016, 9, 1.	1.8	68
25	Insect Population Control by Homing Endonuclease-Based Gene Drive: An Evaluation inDrosophila melanogaster. Genetics, 2011, 188, 33-44.	1.2	67
26	[4] Microarray Oligonucleotide Probes. Methods in Enzymology, 2006, 410, 73-98.	0.4	66
27	Development of synthetic selfish elements based on modular nucleases in Drosophila melanogaster. Nucleic Acids Research, 2014, 42, 7461-7472.	6.5	64
28	Drosophila melanogaster as a model system for drug discovery and pathway screening. Current Opinion in Pharmacology, 2002, 2, 555-560.	1.7	63
29	Transcriptional Dynamics Elicited by a Short Pulse of Notch Activation Involves Feed-Forward Regulation by E(spl)/Hes Genes. PLoS Genetics, 2013, 9, e1003162.	1.5	62
30	Genome-Wide Analysis of the Binding of the Hox Protein Ultrabithorax and the Hox Cofactor Homothorax in Drosophila. PLoS ONE, 2011, 6, e14778.	1.1	57
31	Genomic mapping of Suppressor of Hairy-wing binding sites in Drosophila. Genome Biology, 2007, 8, R167.	13.9	56
32	<i>Sox100B</i>, a <i>Drosophila</i> Group E Sox-domain Gene, Is Required for Somatic Testis Differentiation. Sexual Development, 2009, 3, 26-37.	1.1	55
33	Conserved properties ofDrosophilaand human spermatozoal mRNA repertoires. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2636-2644.	1.2	54
34	Evidence for differential and redundant function of the Sox genes Dichaete and SoxN during CNS development in Drosophila. Development (Cambridge), 2002, 129, 4219-28.	1.2	54
35	Optimising Homing Endonuclease Gene Drive Performance in a Semi-Refractory Species: The Drosophila melanogaster Experience. PLoS ONE, 2013, 8, e54130.	1.1	52
36	Conserved genomic organisation of Group B Sox genes in insects. BMC Genetics, 2005, 6, 26.	2.7	51

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37	Regulatory Mutations of the Drosophila Sox Gene Dichaete Reveal New Functions in Embryonic Brain and Hindgut Development. Developmental Biology, 2000, 220, 307-321.	0.9	43
38	The Design and In Vivo Evaluation of Engineered I-OnuI-Based Enzymes for HEG Gene Drive. PLoS ONE, 2013, 8, e74254.	1.1	40
39	Temporally dynamic response to Wingless directs the sequential elaboration of the proximodistal axis of the Drosophila wing. Developmental Biology, 2003, 254, 277-288.	0.9	39
40	Effects of Gene Dose, Chromatin, and Network Topology on Expression in Drosophila melanogaster. PLoS Genetics, 2016, 12, e1006295.	1.5	38
41	Polysaccharide microarrays for high-throughput screening of transglycosylase activities in plant extracts. Glycoconjugate Journal, 2010, 27, 79-87.	1.4	37
42	Chromatin accessibility plays a key role in selective targeting of Hox proteins. Genome Biology, 2019, 20, 115.	3.8	36
43	SoxNeuro orchestrates central nervous system specification and differentiation in Drosophila and is only partially redundant with Dichaete. Genome Biology, 2014, 15, R74.	13.9	33
44	The evolutionally-conserved function of group B1 Sox family members confers the unique role of Sox2 in mouse ES cells. BMC Evolutionary Biology, 2016, 16, 173.	3.2	33
45	Regions of very low H3K27me3 partition the Drosophila genome into topological domains. PLoS ONE, 2017, 12, e0172725.	1.1	32
46	The 82F Late Puff Contains the L82 Gene, an Essential Member of a Novel Gene Family. Developmental Biology, 1999, 213, 116-130.	0.9	31
47	The role of Dichaete in transcriptional regulation during Drosophila embryonic development. BMC Genomics, 2013, 14, 861.	1.2	31
48	A Drosophila group E Sox gene is dynamically expressed in the embryonic alimentary canal. Mechanisms of Development, 2000, 93, 185-188.	1.7	29
49	Role of Testis-Specific Gene Expression in Sex-Chromosome Evolution of Anopheles gambiae. Genetics, 2011, 189, 1117-1120.	1.2	29
50	Neighbourhood Continuity Is Not Required for Correct Testis Gene Expression in Drosophila. PLoS Biology, 2010, 8, e1000552.	2.6	28
51	Identifying targets of the Sox domain protein Dichaete in the Drosophila CNS via targeted expression of dominant negative proteins. BMC Developmental Biology, 2013, 13, 1.	2.1	28
52	Variable sexually dimorphic gene expression in laboratory strains of Drosophila melanogaster. BMC Genomics, 2007, 8, 454.	1.2	27
53	High-resolution transcriptional profiling of Anopheles gambiae spermatogenesis reveals mechanisms of sex chromosome regulation. Scientific Reports, 2019, 9, 14841.	1.6	26
54	A SoxB gene acts as an anterior gap gene and regulates posterior segment addition in a spider. ELife, 2018, 7, .	2.8	26

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55	Analysis of Drosophila melanogaster proteome dynamics during embryonic development by a combination of labelâ€free proteomics approaches. Proteomics, 2016, 16, 2068-2080.	1.3	24
56	Genomic Approaches to Understanding Hox Gene Function. Advances in Genetics, 2011, 76, 55-91.	0.8	22
57	A Variably Occupied CTCF Binding Site in the Ultrabithorax Gene in the Drosophila Bithorax Complex. Molecular and Cellular Biology, 2015, 35, 318-330.	1.1	22
58	Spectral Libraries for SWATHâ€MS Assays for Drosophila melanogaster and Solanum lycopersicum. Proteomics, 2017, 17, 1700216.	1.3	21
59	Spotted-dick, a zinc-finger protein of Drosophila required for expression of Orc4 and S phase. EMBO Journal, 2005, 24, 4304-4315.	3.5	19
60	The Flannotatorâ€”a gene and protein expression annotation tool for Drosophila melanogaster. Bioinformatics, 2009, 25, 548-549.	1.8	19
61	Replacement of mouse Sox10 by the Drosophila ortholog Sox100B provides evidence for co-option of SoxE proteins into vertebrate-specific gene-regulatory networks through altered expression. Developmental Biology, 2010, 341, 267-281.	0.9	19
62	Engineering the Drosophila Genome for Developmental Biology. Journal of Developmental Biology, 2017, 5, 16.	0.9	19
63	Disruption of Microtubule Integrity Initiates Mitosis during CNS Repair. Developmental Cell, 2012, 23, 433-440.	3.1	18
64	Ecdysone-Regulated Chromosome Puffing in Drosophila melanogaster. , 1996, , 109-144.		16
65	Biases in Drosophila melanogaster protein trap screens. BMC Genomics, 2009, 10, 249.	1.2	16
66	ChIPing away at the genome: the new frontier travel guide. Molecular BioSystems, 2009, 5, 1421.	2.9	16
67	Toward a complete Drosophiladeficiency kit. Genome Biology, 2012, 13, 149.	3.8	16
68	Role of co-repressor genomic landscapes in shaping the Notch response. PLoS Genetics, 2017, 13, e1007096.	1.5	15
69	Duplication and expression of Sox genes in spiders. BMC Evolutionary Biology, 2018, 18, 205.	3.2	15
70	Common binding by redundant group B Sox proteins is evolutionarily conserved in Drosophila. BMC Genomics, 2015, 16, 292.	1.2	14
71	Prediction of Gene Expression in Embryonic Structures of Drosophila melanogaster. PLoS Computational Biology, 2007, 3, e144.	1.5	13
72	On the use of resampling tests for evaluating statistical significance of binding-site co-occurrence. BMC Bioinformatics, 2010, 11, 359.	1.2	13

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73	The impact of quantitative optimization of hybridization conditions on gene expression analysis. BMC Bioinformatics, 2011, 12, 73.	1.2	12
74	The Drosophila dominant wing mutation Dichaete results from ectopic expression of a Sox-domain gene. Molecular Genetics and Genomics, 2000, 263, 690-701.	2.4	10
75	MAMMOT--a set of tools for the design, management and visualization of genomic tiling arrays. Bioinformatics, 2006, 22, 883-884.	1.8	10
76	The Evolution of Sox Gene Repertoires and Regulation of Segmentation in Arachnids. Molecular Biology and Evolution, 2021, 38, 3153-3169.	3.5	10
77	A Drosophila melanogaster chromosome 2L repeat is expressed in the male germ line. Chromosoma, 1994, 103, 63-72.	1.0	9
78	Dosage-Dependent Expression Variation Suppressed on the Drosophila Male X Chromosome. G3: Genes, Genomes, Genetics, 2018, 8, 587-598.	0.8	9
79	Toward a complete Drosophila deficiency kit. Genome Biology, 2012, 13, 149.	13.9	9
80	SWATH-MS data of Drosophila melanogaster proteome dynamics during embryogenesis. Data in Brief, 2016, 9, 771-775.	0.5	7
81	Comparison of Drosophila melanogaster Embryo and Adult Proteome by SWATH-MS Reveals Differential Regulation of Protein Synthesis, Degradation Machinery, and Metabolism Modules. Journal of Proteome Research, 2019, 18, 2525-2534.	1.8	7
82	In Depth Exploration of the Alternative Proteome of Drosophila melanogaster. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	6
83	Characterisation of protein isoforms encoded by the Drosophila Glycogen Synthase Kinase 3 gene shaggy. PLoS ONE, 2020, 15, e0236679.	1.1	5
84	Drosophila nicotinic acetylcholine receptor subunits and their native interactions with insecticidal peptide toxins. ELife, 2022, 11, .	2.8	5
85	Bayesian clustering of replicated time-course gene expression data with weak signals. Annals of Applied Statistics, 2013, 7, .	0.5	4
86	SimArray: a user-friendly and user-configurable microarray design tool. BMC Bioinformatics, 2006, 7, 102.	1.2	3
87	Characterisation ofDrosophila UbxCPTI000601andthCPTI000378Protein Trap Lines. Scientific World Journal, The, 2014, 2014, 1-14.	0.8	3
88	SWATH-MS dataset of heat-shock treated Drosophila melanogaster embryos. Data in Brief, 2016, 9, 991-995.	0.5	3
89	Microarray Gene Expression Data Analysis: A Beginners Guide. H. C. CAUSTON, J. QUACKENBUSH and A. BRAZMA. Blackwell Publishing. 2003. 160 pages. ISBN 1405106824. Price Â£34.99 (paperback).. Genetical Research, 2003, 82, 151-152.	0.3	1
90	From sequence to function: the impact of the genome sequence on Drosophila biology. Briefings in Functional Genomics, 2012, 11, 333-335.	1.3	1

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91	Genome Mapping and Genomics in Drosophila. , 2012, , 31-86.		1
92	TheDrosophilagenome(s). , 2005, , .		0
93	Learning to flyâ€"getting the best out of microarrays. Molecular BioSystems, 2006, 2, 402-405.	2.9	0
94	Basic recipes for the molecular biologist. Development (Cambridge), 2006, 133, 4803-4804.	1.2	0
95	SNPing and chipping away at the fly genome. Nature Methods, 2008, 5, 295-296.	9.0	0
96	'MiMICing' genomic flexibility. Nature Methods, 2011, 8, 728-729.	9.0	0
97	Comparative Genomics of Transcription Factor Binding in Drosophila. True Bugs (Heteroptera) of the Neotropics, 2015, , 157-175.	1.2	0
98	Title is missing!. , 2020, 15, e0236679.		0
99	Title is missing!. , 2020, 15, e0236679.		0
100	Title is missing!. , 2020, 15, e0236679.		0
101	Title is missing!. , 2020, 15, e0236679.		0