

Susan J Brown

List of Publications by Year in descending order

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120
papers

9,521
citations

50276

46
h-index

40979

93
g-index

137
all docs

137
docs citations

137
times ranked

8412
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006, 443, 931-949.	27.8	1,648
2	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008, 452, 949-955.	27.8	1,255
3	BindN: a web-based tool for efficient prediction of DNA and RNA binding sites in amino acid sequences. <i>Nucleic Acids Research</i> , 2006, 34, W243-W248.	14.5	375
4	Sensory control of dauer larva formation in <i>Caenorhabditis elegans</i> . <i>Journal of Comparative Neurology</i> , 1981, 198, 435-451.	1.6	193
5	A pair-rule gene circuit defines segments sequentially in the short-germ insect <i>Tribolium castaneum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6560-6564.	7.1	192
6	Creating a Buzz About Insect Genomes. <i>Science</i> , 2011, 331, 1386-1386.	12.6	185
7	The nuclear receptor homologue Ftz-F1 and the homeodomain protein Ftz are mutually dependent cofactors. <i>Nature</i> , 1997, 385, 548-552.	27.8	180
8	Dissecting Systemic RNA Interference in the Red Flour Beetle <i>Tribolium castaneum</i> : Parameters Affecting the Efficiency of RNAi. <i>PLoS ONE</i> , 2012, 7, e47431.	2.5	174
9	A Massive Expansion of Effector Genes Underlies Gall-Formation in the Wheat Pest <i>Mayetiola destructor</i> . <i>Current Biology</i> , 2015, 25, 613-620.	3.9	171
10	A deficiency of the homeotic complex of the beetle <i>Tribolium</i> . <i>Nature</i> , 1991, 350, 72-74.	27.8	166
11	Multifaceted biological insights from a draft genome sequence of the tobacco hornworm moth, <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 76, 118-147.	2.7	154
12	Conservation, loss, and redeployment of Wnt ligands in protostomes: implications for understanding the evolution of segment formation. <i>BMC Evolutionary Biology</i> , 2010, 10, 374.	3.2	153
13	Using RNAi to investigate orthologous homeotic gene function during development of distantly related insects. <i>Evolution & Development</i> , 1999, 1, 11-15.	2.0	146
14	Patterns of conservation and change in honey bee developmental genes. <i>Genome Research</i> , 2006, 16, 1376-1384.	5.5	139
15	BeetleBase in 2010: revisions to provide comprehensive genomic information for <i>Tribolium castaneum</i> . <i>Nucleic Acids Research</i> , 2010, 38, D437-D442.	14.5	138
16	piggyBac-mediated germline transformation in the beetle <i>Tribolium castaneum</i> . <i>Insect Molecular Biology</i> , 2003, 12, 433-440.	2.0	132
17	Multiple Wnt Genes Are Required for Segmentation in the Short-Germ Embryo of <i>Tribolium castaneum</i> . <i>Current Biology</i> , 2008, 18, 1624-1629.	3.9	129
18	Embryonic expression of the single <i>Tribolium</i> engrailed homolog. <i>Genesis</i> , 1994, 15, 7-18.	2.1	126

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19	The Red Flour Beetle, <i>Tribolium castaneum</i> (Coleoptera): A Model for Studies of Development and Pest Biology: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo126.	0.3	119
20	Cloning and Characterization of the <i>Tribolium castaneum</i> Eye-Color Genes Encoding Tryptophan Oxygenase and Kynurenine 3-Monooxygenase. Genetics, 2002, 160, 225-234.	2.9	116
21	Larval RNAi in <i>Drosophila</i> ?. Development Genes and Evolution, 2008, 218, 505-510.	0.9	112
22	Tools and pipelines for BioNano data: molecule assembly pipeline and FASTA super scaffolding tool. BMC Genomics, 2015, 16, 734.	2.8	103
23	A segmentation clock operating in blastoderm and germband stages of <i>Tribolium</i> development. Development (Cambridge), 2012, 139, 4341-4346.	2.5	100
24	Evolutionary flexibility of pair-rule patterning revealed by functional analysis of secondary pair-rule genes, paired and sloppy-paired in the short-germ insect, <i>Tribolium castaneum</i> . Developmental Biology, 2007, 302, 281-294.	2.0	94
25	Structure and function of the homeotic gene complex (HOM-C) in the beetle, <i>Tribolium castaneum</i> . BioEssays, 1993, 15, 439-444.	2.5	93
26	Large-scale insertional mutagenesis of a coleopteran stored grain pest, the red flour beetle <i>Tribolium castaneum</i> , identifies embryonic lethal mutations and enhancer traps. BMC Biology, 2009, 7, 73.	3.8	93
27	Computational identification of novel chitinase-like proteins in the <i>Drosophila melanogaster</i> genome. Bioinformatics, 2004, 20, 161-169.	4.1	90
28	<i>Tribolium</i> Wnts: evidence for a larger repertoire in insects with overlapping expression patterns that suggest multiple redundant functions in embryogenesis. Development Genes and Evolution, 2008, 218, 193-202.	0.9	89
29	Incremental genetic K-means algorithm and its application in gene expression data analysis. BMC Bioinformatics, 2004, 5, 172.	2.6	87
30	Hedgehog signaling pathway function conserved in <i>Tribolium</i> segmentation. Development Genes and Evolution, 2008, 218, 181-192.	0.9	87
31	The Genome and Methylome of a Beetle with Complex Social Behavior, <i>Nicrophorus vespilloides</i> (Coleoptera: Silphidae). Genome Biology and Evolution, 2015, 7, 3383-3396.	2.5	87
32	Comparisons of the embryonic development of <i>Drosophila</i> , <i>Nasonia</i> , and <i>Tribolium</i> . Wiley Interdisciplinary Reviews: Developmental Biology, 2012, 1, 16-39.	5.9	81
33	Genomic and proteomic studies on the effects of the insect growth regulator diflubenzuron in the model beetle species <i>Tribolium castaneum</i> . Insect Biochemistry and Molecular Biology, 2012, 42, 264-276.	2.7	80
34	Determination of cluster number in clustering microarray data. Applied Mathematics and Computation, 2005, 169, 1172-1185.	2.2	78
35	piggyBac-based insertional mutagenesis in <i>Tribolium castaneum</i> using donor/helper hybrids. Insect Molecular Biology, 2007, 16, 265-275.	2.0	75
36	Molecular characterization and embryonic expression of the even-skipped ortholog of <i>Tribolium castaneum</i> . Mechanisms of Development, 1997, 61, 165-173.	1.7	67

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37	BeetleBase: the model organism database for <i>Tribolium castaneum</i> . <i>Nucleic Acids Research</i> , 2007, 35, D476-D479.	14.5	66
38	The expression and function of the achaete-scute genes in <i>Tribolium castaneum</i> reveals conservation and variation in neural pattern formation and cell fate specification. <i>Development (Cambridge)</i> , 2003, 130, 4373-4381.	2.5	65
39	Asymmetrically expressed <i>axin</i> required for anterior development in <i>Tribolium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7782-7786.	7.1	65
40	The <i>Tribolium</i> decapentaplegic gene is similar in sequence, structure, and expression to the <i>Drosophila</i> <i>dpp</i> gene. <i>Development Genes and Evolution</i> , 1996, 206, 237-246.	0.9	64
41	Improved annotation of the insect vector of citrus greening disease: biocuration by a diverse genomics community. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	3.0	62
42	Molecular genetic manipulation of the red flour beetle: Genome organization and cloning of a ribosomal protein gene. <i>Insect Biochemistry</i> , 1990, 20, 185-193.	1.8	60
43	Pondering the procephalon: the segmental origin of the labrum. <i>Development Genes and Evolution</i> , 2001, 211, 89-95.	0.9	60
44	Analysis of the <i>Tribolium</i> homeotic complex: insights into mechanisms constraining insect Hox clusters. <i>Development Genes and Evolution</i> , 2008, 218, 127-139.	0.9	60
45	Two orthodenticle-related genes in the short-germ beetle <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 1996, 206, 35-45.	0.9	59
46	Genetic Linkage Maps of the Red Flour Beetle, <i>Tribolium castaneum</i> , Based on Bacterial Artificial Chromosomes and Expressed Sequence Tags. <i>Genetics</i> , 2005, 170, 741-747.	2.9	53
47	Hybrid de novo genome assembly and centromere characterization of the gray mouse lemur (<i>Microcebus murinus</i>). <i>BMC Biology</i> , 2017, 15, 110.	3.8	53
48	Anterior localization of maternal mRNAs in a short germ insect lacking bicoid. <i>Evolution & Development</i> , 2005, 7, 142-149.	2.0	52
49	Analysis of repetitive DNA distribution patterns in the <i>Tribolium castaneum</i> genome. <i>Genome Biology</i> , 2008, 9, R61.	9.6	50
50	Caudal Regulates the Spatiotemporal Dynamics of Pair-Rule Waves in <i>Tribolium</i> . <i>PLoS Genetics</i> , 2014, 10, e1004677.	3.5	48
51	RAPD-Based Genetic Linkage Maps of <i>Tribolium castaneum</i> . <i>Genetics</i> , 1999, 153, 333-338.	2.9	47
52	Sequence of the <i>Tribolium castaneum</i> Homeotic Complex: The Region Corresponding to the <i>Drosophila melanogaster</i> Antennapedia Complex. <i>Genetics</i> , 2002, 160, 1067-1074.	2.9	47
53	Beetling around the genome. <i>Genetical Research</i> , 2003, 82, 155-161.	0.9	46
54	Analysis of transcriptome data in the red flour beetle, <i>Tribolium castaneum</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 380-386.	2.7	46

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55	Genetic regulation of engrailed and wingless in <i>Tribolium</i> segmentation and the evolution of pair-rule segmentation. <i>Developmental Biology</i> , 2009, 325, 482-491.	2.0	44
56	Speed regulation of genetic cascades allows for evolvability in the body plan specification of insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8646-E8655.	7.1	44
57	Degenerative Expansion of a Young Supergene. <i>Molecular Biology and Evolution</i> , 2019, 36, 553-561.	8.9	42
58	Molecular characterization of Cephalothorax, the <i>Tribolium</i> ortholog of Sex combs reduced. <i>Genesis</i> , 2001, 30, 12-20.	1.6	40
59	Analysis of <i>maxillopedia</i> Expression Pattern and Larval Cuticular Phenotype in Wild-Type and Mutant <i>Tribolium</i> . <i>Genetics</i> , 2000, 155, 721-731.	2.9	40
60	Homeotic evidence for the appendicular origin of the labrum in <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2001, 211, 96-102.	0.9	39
61	Transgene expression from the <i>Tribolium castaneum</i> Polyubiquitin promoter. <i>Insect Molecular Biology</i> , 2002, 11, 399-407.	2.0	38
62	Tubulin superfamily genes in <i>Tribolium castaneum</i> and the use of a Tubulin promoter to drive transgene expression. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 749-755.	2.7	37
63	Molecular and genetic analysis of the <i>Tribolium</i> Ultrabithorax ortholog, Ultrathorax. <i>Development Genes and Evolution</i> , 1999, 209, 608-619.	0.9	36
64	Life habits, hox genes, and affinities of a 311 million-year-old holometabolan larva. <i>BMC Evolutionary Biology</i> , 2015, 15, 208.	3.2	36
65	Molecular characterization of the <i>Tribolium</i> abdominal-A ortholog and implications for the products of the <i>Drosophila</i> gene. <i>Development Genes and Evolution</i> , 1998, 207, 446-452.	0.9	33
66	A quick guide for student-driven community genome annotation. <i>PLoS Computational Biology</i> , 2019, 15, e1006682.	3.2	33
67	The repressor activity of Even-skipped is highly conserved, and is sufficient to activate engrailed and to regulate both the spacing and stability of parasegment boundaries. <i>Development (Cambridge)</i> , 2002, 129, 4411-4421.	2.5	33
68	PREDICTION OF DNA-BINDING RESIDUES FROM SEQUENCE FEATURES. <i>Journal of Bioinformatics and Computational Biology</i> , 2006, 04, 1141-1158.	0.8	30
69	Parallel Duplication and Partial Subfunctionalization of \hat{A} -Catenin/Armadillo during Insect Evolution. <i>Molecular Biology and Evolution</i> , 2012, 29, 647-662.	8.9	28
70	Gender Bias in Human Systemic Lupus Erythematosus: A Problem of Steroid Receptor Action?. <i>Frontiers in Immunology</i> , 2018, 9, 611.	4.8	28
71	<i>Woot</i> , an Active Gypsy-Class Retrotransposon in the Flour Beetle, <i>Tribolium castaneum</i> , is Associated With a Recent Mutation. <i>Genetics</i> , 1996, 143, 417-426.	2.9	28
72	Loss of Tc-arrow and canonical Wnt signaling alters posterior morphology and pair-rule gene expression in the short-germ insect, <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2009, 219, 369-375.	0.9	27

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73	Interactions of the Tribolium <i>Sex combs reduced</i> and <i>proboscipedia</i> Orthologs in Embryonic Labial Development. <i>Genetics</i> , 2001, 159, 1643-1648.	2.9	27
74	Molecular detection of SARS-CoV-2 strains and differentiation of Delta variant strains. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 2879-2889.	3.0	25
75	Essential role of eIF5-mimic protein in animal development is linked to control of ATF4 expression. <i>Nucleic Acids Research</i> , 2014, 42, 10321-10330.	14.5	24
76	Genetic Control of Early Embryogenesis in the Red Flour Beetle, <i>Tribolium castaneum</i> . <i>American Zoologist</i> , 1994, 34, 343-352.	0.7	23
77	<i>maxillopedia</i> is the Tribolium ortholog of <i>proboscipedia</i> . <i>Evolution & Development</i> , 2000, 2, 145-151.	2.0	23
78	Tribolium Hox genes repress antennal development in the gnathos and trunk. <i>Molecular Phylogenetics and Evolution</i> , 2002, 24, 384-387.	2.7	23
79	Molecular characterization of <i>Tclabial</i> and the 3' end of the Tribolium homeotic complex. <i>Development Genes and Evolution</i> , 2001, 211, 244-251.	0.9	22
80	Do teashirt family genes specify trunk identity? Insights from the single <i>tiptop</i> / <i>teashirt</i> homolog of <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2008, 218, 141-152.	0.9	22
81	Yeast 18 S rRNA Is Directly Involved in the Ribosomal Response to Stringent AUG Selection during Translation Initiation. <i>Journal of Biological Chemistry</i> , 2010, 285, 32200-32212.	3.4	22
82	Membrane topology and identification of key residues of <i>EaDacT</i> , a plant <i>MBOAT</i> with unusual substrate specificity. <i>Plant Journal</i> , 2017, 92, 82-94.	5.7	20
83	The repressor activity of <i>Even-skipped</i> is highly conserved, and is sufficient to activate <i>engrailed</i> and to regulate both the spacing and stability of parasegment boundaries. <i>Development (Cambridge)</i> , 2002, 129, 4411-21.	2.5	20
84	Prediction of RNA-Binding Residues in Protein Sequences Using Support Vector Machines. , 2006, 2006, 5830-3.		19
85	Concurrent In Situ Hybridization and Antibody Staining in Red Flour Beetle (<i>Tribolium</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5257.	0.3	18
86	Divergent host plant adaptation drives the evolution of sexual isolation in the grasshopper <i>Hesperotettix viridis</i> (Orthoptera: Acrididae) in the absence of reinforcement. <i>Biological Journal of the Linnean Society</i> , 0, 100, 866-878.	1.6	17
87	High contiguity de novo genome assembly and DNA modification analyses for the fungus fly, <i>Sciara coprophila</i> , using single-molecule sequencing. <i>BMC Genomics</i> , 2021, 22, 643.	2.8	17
88	Large diversity of the piggyBac-like elements in the genome of <i>Tribolium castaneum</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 490-498.	2.7	15
89	Prediction of alternatively spliced exons using Support Vector Machines. <i>International Journal of Data Mining and Bioinformatics</i> , 2010, 4, 411.	0.1	14
90	Molecular detection of SARS-CoV-2 and differentiation of Omicron and Delta variant strains. <i>Transboundary and Emerging Diseases</i> , 2022, 69, .	3.0	14

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91	The <i>Tribolium castaneum</i> Ortholog of Sex combs reduced Controls Dorsal Ridge Development. <i>Genetics</i> , 2006, 174, 297-307.	2.9	13
92	Regulation and function of odd-paired in <i>Tribolium</i> segmentation. <i>Development Genes and Evolution</i> , 2017, 227, 309-317.	0.9	13
93	Interaction between 25S rRNA A Loop and Eukaryotic Translation Initiation Factor 5B Promotes Subunit Joining and Ensures Stringent AUC Selection. <i>Molecular and Cellular Biology</i> , 2013, 33, 3540-3548.	2.3	10
94	Annotation of chitin biosynthesis genes in <i>Diaphorina citri</i> , the Asian citrus psyllid. <i>GigaByte</i> , 0, 2021, 1-12.	0.0	8
95	Utilizing a chromosomal-length genome assembly to annotate the Wnt signaling pathway in the Asian citrus psyllid, <i>Diaphorina citri</i> . <i>GigaByte</i> , 0, 2021, 1-15.	0.0	7
96	Closing the Gap: Comparative Approaches to Studying Insect Development in the Red Flour Beetle <i>Tribolium castaneum</i> and Other Short and Intermediate Germ Insects. <i>Current Genomics</i> , 2005, 6, 571-578.	1.6	5
97	MtDNA haplotypes, sequence divergence, and morphological variation in Gray-breasted Wood Wrens (<i>Henichorina leucophrys</i>) and their conservation implications. <i>Journal of Field Ornithology</i> , 2007, 78, 117-123.	0.5	5
98	Asian citrus psyllid stylet morphology and applicability to the model for inter-instar stylet replacement in the potato psyllid. <i>Arthropod Structure and Development</i> , 2018, 47, 542-551.	1.4	5
99	The transcriptome of the lone star tick, <i>Amblyomma americanum</i> , reveals molecular changes in response to infection with the pathogen, <i>Ehrlichia chaffeensis</i> . <i>Journal of Asia-Pacific Entomology</i> , 2018, 21, 852-863.	0.9	5
100	Annotation of yellow genes in <i>Diaphorina citri</i> , the vector for Huanglongbing disease. <i>GigaByte</i> , 0, 2021, 1-15.	0.0	5
101	In silico characterization of chitin deacetylase genes in the <i>Diaphorina citri</i> genome. <i>GigaByte</i> , 0, 2021, 1-11.	0.0	4
102	Useful DNA polymorphisms are identified by snapback, a midrepetitive element in <i>Tribolium castaneum</i> . <i>Genome</i> , 1996, 39, 568-578.	2.0	3
103	Exploring Alternative Splicing Features Using Support Vector Machines. , 2008, , ,		3
104	Highly Polymorphic Microsatellites in the North American Snakeweed Grasshopper, <i>Hesperotettix viridis</i> . <i>Journal of Orthoptera Research</i> , 2009, 18, 19-21.	1.0	3
105	Random mutagenesis of yeast 25S rRNA identify bases critical for 60S subunit structural integrity and function. <i>Translation</i> , 2013, 1, e26402.	2.9	3
106	Editorial overview: Insect genomics: How to sequence five thousand insect genomes?. <i>Current Opinion in Insect Science</i> , 2015, 7, iv-v.	4.4	3
107	Annotation of segmentation pathway genes in the Asian citrus psyllid, <i>Diaphorina citri</i> . <i>GigaByte</i> , 0, 2021, 1-13.	0.0	3
108	Entomological contributions to genetics: Studies on insect germ cells linked genes to chromosomes and chromosomes to mendelian inheritance. <i>Archives of Insect Biochemistry and Physiology</i> , 2003, 53, 115-118.	1.5	2

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109	Expression of teneurin-m/odd Oz during segmentation in the beetle <i>Tribolium castaneum</i> . <i>Gene Expression Patterns</i> , 2019, 31, 26-31.	0.8	2
110	Isolation of High Molecular Weight DNA from Insects. <i>Methods in Molecular Biology</i> , 2019, 1858, 27-32.	0.9	2
111	Undergraduate Virtual Engagement in Community Genome Annotation Provides Flexibility to Overcome Course Disruptions. <i>Journal of Microbiology and Biology Education</i> , 2021, 22, .	1.0	2
112	Annotation of glycolysis, gluconeogenesis, and trehaloneogenesis pathways provide insight into carbohydrate metabolism in the Asian citrus psyllid. <i>GigaByte</i> , 0, 2022, 1-19.	0.0	2
113	Genome-wide oscillations in G + C density and sequence conservation. <i>Genome Research</i> , 2021, 31, 2050-2057.	5.5	1
114	Genomic identification, annotation, and comparative analysis of Vacuolar-type ATP synthase subunits in <i>Diaphorina citri</i> . <i>GigaByte</i> , 0, 2022, 1-18.	0.0	1
115	Prediction of RNA-Binding Residues in Protein Sequences Using Support Vector Machines. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	1
116	Manual curation and phylogenetic analysis of chitinase family genes in the Asian citrus psyllid, <i>Diaphorina citri</i> . <i>GigaByte</i> , 0, 2022, 1-17.	0.0	1
117	Annotation of Hox cluster and Hox cofactor genes in the Asian citrus psyllid, <i>Diaphorina citri</i> , reveals novel features. <i>GigaByte</i> , 0, 2022, 1-18.	0.0	1
118	Reinterpretation of "sperm pump" or "sperm syringe" function with notes on other male internal reproductive organs in the Asian citrus psyllid, <i>Diaphorina citri</i> (Hemiptera: Liviidae). <i>Arthropod Structure and Development</i> , 2020, 54, 100915.	1.4	0
119	Ubiquitin-proteasome pathway annotation in <i>Diaphorina citri</i> can reveal potential targets for RNAi-based pest management. <i>GigaByte</i> , 0, 2022, 1-10.	0.0	0
120	Annotation of putative circadian rhythm-associated genes in <i>Diaphorina citri</i> (Hemiptera: Liviidae). <i>GigaByte</i> , 0, 2022, 1-15.	0.0	0