

Marc F Schetelig

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,383
citations

394286

19
h-index

360920

35
g-index

56
all docs

56
docs citations

56
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	The whole genome sequence of the Mediterranean fruit fly, <i>Ceratitis capitata</i> (Wiedemann), reveals insights into the biology and adaptive evolution of a highly invasive pest species. <i>Genome Biology</i> , 2016, 17, 192.	3.8	130
2	Conditional embryonic lethality to improve the sterile insect technique in <i>Ceratitis capitata</i> (Diptera: Tephritidae). <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 790-795.	1.7	104
3	Towards mosquito sterile insect technique programmes: Exploring genetic, molecular, mechanical and behavioural methods of sex separation in mosquitoes. <i>Acta Tropica</i> , 2014, 132, S178-S187.	0.9	90
4	A transgenic embryonic sexing system for <i>Anastrepha suspensa</i> (Diptera: Tephritidae). <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 790-795.	1.2	88
5	Transgenic sexing system for <i>Ceratitis capitata</i> (Diptera: Tephritidae) based on female-specific embryonic lethality. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1-8.	1.2	87
6	Fluorescent sperm marking to improve the fight against the pest insect <i>Ceratitis capitata</i> (Wiedemann; Tephritidae). <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 790-795.	2.4	76
7	Site-specific recombination for the modification of transgenic strains of the Mediterranean fruit fly <i>Ceratitis capitata</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18171-18176.	3.3	73
8	Environmentally sustainable pest control options for <i>Drosophila suzukii</i> . <i>Journal of Applied Entomology</i> , 2018, 142, 3-17.	0.8	72
9	Strategy for enhanced transgenic strain development for embryonic conditional lethality in <i>Anastrepha suspensa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9348-9353.	3.3	61
10	Male only progeny in <i>Anastrepha suspensa</i> by RNAi-induced sex reversion of chromosomal females. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 51-57.	1.2	61
11	Tetracycline-suppressible female lethality and sterility in the Mexican fruit fly, <i>Anastrepha ludens</i> . <i>Insect Molecular Biology</i> , 2016, 25, 500-508.	1.0	42
12	Germline transformation of the spotted wing drosophilid, <i>Drosophila suzukii</i> , with a piggyBac transposon vector. <i>Genetica</i> , 2013, 141, 189-193.	0.5	41
13	CRISPR/Cas-mediated gene editing using purified protein in <i>Drosophila suzukii</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2017, 164, 350-362.	0.7	29
14	Highly efficient genome editing by homology-directed repair using Cas9 protein in <i>Ceratitis capitata</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2018, 101, 85-93.	1.2	26
15	White pupae phenotype of tephritids is caused by parallel mutations of a MFS transporter. <i>Nature Communications</i> , 2021, 12, 491.	5.8	25
16	Pro-apoptotic cell death genes, <i>hid</i> and <i>reaper</i> , from the tephritid pest species, <i>Anastrepha suspensa</i> . <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2011, 16, 759-768.	2.2	24
17	A Functional Comparison of the <i>3xP3</i> Promoter by Recombinase-Mediated Cassette Exchange in <i>Drosophila</i> and a Tephritid Fly, <i>Anastrepha suspensa</i> . <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 687-693.	0.8	23
18	Polyandry in the medfly - shifts in paternity mediated by sperm stratification and mixing. <i>BMC Genetics</i> , 2014, 15, S10.	2.7	21

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19	Recombination technologies for enhanced transgene stability in bioengineered insects. <i>Genetica</i> , 2011, 139, 71-78.	0.5	20
20	Cre/lox-Recombinase-Mediated Cassette Exchange for Reversible Site-Specific Genomic Targeting of the Disease Vector, <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2017, 7, 43883.	1.6	19
21	Overexpression of an antioxidant enzyme improves male mating performance after stress in a lek-mating fruit fly. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190531.	1.2	19
22	CRISPR/Cas9 mediated disruption of the white gene leads to pigmentation deficiency and copulation failure in <i>Drosophila suzukii</i> . <i>Journal of Insect Physiology</i> , 2020, 126, 104091.	0.9	19
23	Genetic breakdown of a Tet-off conditional lethality system for insect population control. <i>Nature Communications</i> , 2020, 11, 3095.	5.8	18
24	Bicistronic expression and differential localization of proteins in insect cells and <i>Drosophila suzukii</i> using picornaviral 2A peptides. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 119, 103324.	1.2	16
25	Female-to-male sex conversion in <i>Ceratitis capitata</i> by CRISPR/Cas9 HDR-induced point mutations in the sex determination gene transformer-2. <i>Scientific Reports</i> , 2020, 10, 18611.	1.6	15
26	CRISPR-mediated mutagenesis of the odorant receptor co-receptor (<i>Orco</i>) gene disrupts olfaction-mediated behaviors in <i>Bactrocera dorsalis</i> . <i>Insect Science</i> , 2022, 29, 1275-1286.	1.5	15
27	Development of an Embryonic Lethality System in Mediterranean Fruit Fly <i>Ceratitis capitata</i> . , 2007, , 85-93.		13
28	Genomic targeting by recombinase-mediated cassette exchange in the spotted wing drosophila, <i>Drosophila suzukii</i> . <i>Insect Molecular Biology</i> , 2019, 28, 187-195.	1.0	13
29	Plasticity in mRNA expression and localization of <i>orthodenticle</i> within higher Diptera. <i>Evolution & Development</i> , 2008, 10, 700-704.	1.1	11
30	Insect Transgenesis and the Sterile Insect Technique. , 2011, , 169-194.		10
31	An EST database of the Caribbean fruit fly, <i>Anastrepha suspensa</i> (Diptera: Tephritidae). <i>Gene</i> , 2013, 517, 212-217.	1.0	10
32	Pro-apoptotic gene regulation and its activation by gamma-irradiation in the Caribbean fruit fly, <i>Anastrepha suspensa</i> . <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1-9.	2.2	10
33	Highly Efficient Temperature Inducible CRISPR-Cas9 Gene Targeting in <i>Drosophila suzukii</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6724.	1.8	10
34	Insect transgenesis applied to tephritid pest control. <i>Journal of Applied Entomology</i> , 2008, 132, 820-831.	0.8	9
35	Male-specific Y-linked transgene markers to enhance biologically-based control of the Mexican fruit fly, <i>Anastrepha ludens</i> (Diptera: Tephritidae). <i>BMC Genetics</i> , 2014, 15, S4.	2.7	9
36	Germline transformation of the olive fruit fly, <i>Bactrocera oleae</i> (Rossi) (Diptera: Tephritidae), with a piggyBac transposon vector. <i>Turkish Journal of Biology</i> , 2016, 40, 845-855.	2.1	9

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37	Molecular tools to create new strains for mosquito sexing and vector control. <i>Parasites and Vectors</i> , 2018, 11, 645.	1.0	9
38	A transgenic female killing system for the genetic control of <i>Drosophila suzukii</i> . <i>Scientific Reports</i> , 2021, 11, 12938.	1.6	9
39	Characterization of the <i>Drosophila suzukii</i> β -tubulin gene and the utilization of its promoter to monitor sex separation and insemination. <i>Gene</i> , 2021, 771, 145366.	1.0	6
40	Fitness Cost Implications of PhiC31-Mediated Site-Specific Integrations in Target-Site Strains of the Mexican Fruit Fly, <i>Anastrepha ludens</i> (Diptera: Tephritidae). <i>PLoS ONE</i> , 2014, 9, e109690.	1.1	5
41	Not all GMOs are crop plants: non-plant GMO applications in agriculture. <i>Transgenic Research</i> , 2014, 23, 1057-1068.	1.3	5
42	Identification and characterization of four <i>Drosophila suzukii</i> cellularization genes and their promoters. <i>BMC Genetics</i> , 2020, 21, 146.	2.7	5
43	In toto light sheet fluorescence microscopy live imaging datasets of <i>Ceratitis capitata</i> embryonic development. <i>Scientific Data</i> , 2022, 9, .	2.4	5
44	Y-Linked Markers for Improved Population Control of the Tephritid Fruit Fly Pest, <i>Anastrepha suspensa</i> . <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 136, 123-133.	0.6	4
45	Gene Drives: Dynamics and Regulatory Matters—A Report from the Workshop “Evaluation of Spatial and Temporal Control of Gene Drives,” April 4–5, 2019, Vienna. <i>BioEssays</i> , 2019, 41, 1900151.	1.2	3
46	Spatial and temporal genetic variation of <i>Drosophila suzukii</i> in Germany. <i>Journal of Pest Science</i> , 2021, 94, 1291-1305.	1.9	3
47	Conditional Expression Systems for <i>Drosophila suzukii</i> Pest Control. , 2020, , 195-215.		3
48	High-throughput analysis of insecticides on malaria vectors using liquid chromatography tandem mass spectrometry. <i>PLoS ONE</i> , 2019, 14, e0211064.	1.1	2
49	Functional characterization of the <i>Drosophila suzukii</i> pro-apoptotic genes reaper, head involution defective and grim. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2020, 25, 864-874.	2.2	2
50	Evaluation of Hydrogen Peroxide Fumigation and Heat Treatment for Standard Emergency Arthropod Inactivation in BSL-3 Insectaries. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 602937.	2.0	1
51	Mitochondrial superoxide dismutase overexpression and low oxygen conditioning hormesis improve the performance of irradiated sterile males. <i>Scientific Reports</i> , 2021, 11, 20182.	1.6	1
52	Joint FAO/IAEA coordinated research project on “comparing rearing efficiency and competitiveness of sterile male strains produced by genetic, transgenic or symbiont-based technologies” <i>BMC Genetics</i> , 2020, 21, 148.	2.7	1
53	Evaluation of horizontal gene transfer risk between the Mediterranean fruit fly <i>Ceratitis capitata</i> (Tephritidae) and its parasitoid <i>Fopius ceratitivorus</i> (Braconidae). <i>PLoS ONE</i> , 2018, 13, e0207999.	1.1	0