Marla B Sokolowski

List of Publications by Year
in descending order

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99 papers	6,647 citations	61977 43 h-index	69246 77 g-index
100 all docs	100 docs citations	100 times ranked	4528 citing authors

#	Article	IF	Citations
1	How Social Experience and Environment Impacts Behavioural Plasticity inDrosophila. Fly, 2022, 16, 68-84.	1.7	11
2	Tracking dispersal across a patchy landscape reveals a dynamic interaction between genotype and habitat structure. Oikos, 2021, 130, 79-94.	2.7	7
3	Drosophila as a useful model for understanding the evolutionary physiology of obesity resistance and metabolic thrift. Fly, 2021, 15, 47-59.	1.7	3
4	OUP accepted manuscript. Nucleic Acids Research, 2021, 49, 9097-9116.	14.5	19
5	The Drosophila foraging gene plays a vital role at the start of metamorphosis for subsequent adult emergence. Journal of Neurogenetics, 2021, 35, 179-191.	1.4	4
6	A cGMP-dependent protein kinase, encoded by the Drosophila foraging gene, regulates neurotransmission through changes in synaptic structure and function. Journal of Neurogenetics, 2021, 35, 213-220.	1.4	7
7	The Drosophila melanogaster foraging gene affects social networks. Journal of Neurogenetics, 2021, 35, 249-261.	1.4	11
8	Expression of the foraging gene in adult Drosophila melanogaster. Journal of Neurogenetics, 2021, 35, 192-212.	1.4	7
9	Drosophila melanogaster foragingregulates a nociceptive-like escape behavior through a developmentally plastic sensory circuit. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23286-23291.	7.1	42
10	Biological embedding of experience: A primer on epigenetics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23261-23269.	7.1	148
11	Functional testing of ASD-associated genes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26-28.	7.1	17
12	Honey bee colony aggression and indirect genetic effects. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18148-18150.	7.1	2
13	Behavior-related gene regulatory networks: A new level of organization in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23270-23279.	7.1	52
14	Genes and environments, development and time. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23235-23241.	7.1	80
15	Reply to Lyon et al.: Self-regulation and the foraging gene: From flies to humans. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15768-15769.	7.1	0
16	The foraging Gene and Its Behavioral Effects: Pleiotropy and Plasticity. Annual Review of Genetics, 2019, 53, 373-392.	7.6	49
17	Distinct functions of a cGMP-dependent protein kinase in nerve terminal growth and synaptic vesicle cycling. Journal of Cell Science, 2019, 132, .	2.0	15
18	A Neuroethics Backbone for the Evolving Canadian Brain Research Strategy. Neuron, 2019, 101, 370-374.	8.1	15

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19	Intergenerational Transmission of Child Abuse and Neglect: A Transdisciplinary Analysis. , 2019, 3, 247028971982610.	0.8	17
20	Self-regulation and the foraging gene (PRKG1) in humans. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4434-4439.	7.1	29
21	Geneâ€“Environment Interplay and Individual Differences in Behavior. Mind, Brain, and Education, 2018, 12, 200-211.	1.9	26
22	Fetal growth interacts with multilocus genetic score reflecting dopamine signaling capacity to predict spontaneous sugar intake inÂchildren. Appetite, 2018, 120, 596-601.	3.7	23
23	The adult foraging assay (AFA) detects strain and food-deprivation effects in feeding-related traits of Drosophila melanogaster. Journal of Insect Physiology, 2018, 106, 20-29.	2.0	30
24	A reductionist approach to understanding the nervous system: the Harold Atwood legacy. Journal of Neurogenetics, 2018, 32, 127-130.	1.4	0
25	Pleiotropy of theDrosophila melanogaster foraginggene on larval feeding-related traits. Journal of Neurogenetics, 2018, 32, 256-266.	1.4	19
26	A look inside the Atwood lab. Journal of Neurogenetics, 2018, 32, 279-293.	1.4	1
27	Deciphering pleiotropy: How complex genes regulate behavior. Communicative and Integrative Biology, 2018, 11, 1-4.	1.4	15
28	Both maternal care received and genotype influence stressâ€related phenotype in female rats. Developmental Psychobiology, 2018, 60, 889-902.	1.6	7
29	Feeding-Related Traits Are Affected by Dosage of theforagingGene inDrosophila melanogaster. Genetics, 2017, 205, 761-773.	2.9	51
30	Aggressive behaviours, food deprivation and the foraging gene. Royal Society Open Science, 2017, 4, 170042.	2.4	21
31	The Drosophila foraging gene human orthologue PRKG1 predicts individual differences in the effects of early adversity on maternal sensitivity. Cognitive Development, 2017, 42, 62-73.	1.3	15
32	Epigenetic mechanisms modulate differences in Drosophila foraging behavior. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12518-12523.	7.1	70
33	An antâ€“plant mutualism through the lens of cGMP-dependent kinase genes. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170896.	2.6	10
34	A <scp>DRD</scp>4 gene by maternal sensitivity interaction predicts risk for overweight or obesity in two independent cohorts of preschool children. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2017, 58, 180-188.	5.2	14
35	Foraging Path-length Protocol for Drosophila melanogaster Larvae. Journal of Visualized Experiments, 2016, , .	0.3	12
36	Natural variability in Drosophila larval and pupal NaCl tolerance. Journal of Insect Physiology, 2016, 88, 15-23.	2.0	2

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37	Genetic Differential Susceptibility to Socioeconomic Status and Childhood Obesogenic Behavior. JAMA Pediatrics, 2016, 170, 359.	6.2	76
38	Effects of Genotype and Sleep on Temperament. Pediatrics, 2015, 136, e914-e921.	2.1	20
39	Prepupal Building Behavior in Drosophila melanogaster and Its Evolution under Resource and Time Constraints. PLoS ONE, 2015, 10, e0117280.	2.5	13
40	Association between the seven-repeat allele of the dopamine-4 receptor gene (DRD4) and spontaneous food intake in pre-school children. Appetite, 2014, 73, 15-22.	3.7	30
41	Gene-environment interplay in Drosophila melanogaster: Chronic nutritional deprivation in larval life affects adult fecal output. Journal of Insect Physiology, 2014, 69, 95-100.	2.0	15
42	Na⁺-K⁺-ATPase trafficking induced by heat shock pretreatment correlates with increased resistance to anoxia in locusts. Journal of Neurophysiology, 2014, 112, 814-823.	1.8	27
43	The Maternal Adversity, Vulnerability and Neurodevelopment Project: Theory and Methodology. Canadian Journal of Psychiatry, 2014, 59, 497-508.	1.9	76
44	Social Environment Influences Performance in a Cognitive Task in Natural Variants of the Foraging Gene. PLoS ONE, 2013, 8, e81272.	2.5	36
45	foraging alters resilience/vulnerability to sleep disruption and starvation in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2613-2618.	7.1	86
46	Toward a new biology of social adversity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17143-17148.	7.1	101
47	Geneâ€“environment interplay in Drosophila melanogaster : Chronic food deprivation in early life affects adult exploratory and fitness traits. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17239-17244.	7.1	61
48	The visual orientation memory of Drosophila requires Foraging (PKG) upstream of Ignorant (RSK2) in ring neurons of the central complex. Learning and Memory, 2012, 19, 337-340.	1.3	63
49	A Genetic Screen for Olfactory Habituation Mutations in Drosophila: Analysis of Novel Foraging Alleles and an Underlying Neural Circuit. PLoS ONE, 2012, 7, e51684.	2.5	26
50	A natural genetic polymorphism affects retroactive interference inDrosophila melanogaster. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 91-98.	2.6	33
51	Conservation of gene function in behaviour. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2100-2110.	4.0	52
52	Controlling anoxic tolerance in adult Drosophila via the cGMPâ€“PKG pathway. Journal of Experimental Biology, 2010, 213, 2410-2416.	1.7	49
53	Social Interactions in â€œSimpleâ€•Model Systems. Neuron, 2010, 65, 780-794.	8.1	160
54	The Drosophila foraging Gene Mediates Adult Plasticity and Geneâ€“Environment Interactions in Behaviour, Metabolites, and Gene Expression in Response to Food Deprivation. PLoS Genetics, 2009, 5, e1000609.	3.5	89

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55	Molecular basis for changes in behavioral state in ant social behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6351-6356.	7.1	105
56	cGMP-Dependent Protein Kinase as a Modifier of Behaviour. Handbook of Experimental Pharmacology, 2009, , 423-443.	1.8	52
57	Behavioural Genetics: Worms Seek That Old Beetle Smell. Current Biology, 2008, 18, R480-R482.	3.9	1
58	Natural variation in plasticity of glucose homeostasis and food intake. Journal of Experimental Biology, 2008, 211, 3160-3166.	1.7	49
59	Natural polymorphism affecting learning and memory in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13051-13055.	7.1	184
60	Natural variation in Drosophila larval reward learning and memory due to a cGMP-dependent protein kinase. Learning and Memory, 2007, 14, 342-349.	1.3	71
61	Natural variation in food acquisition mediatedviaaDrosophilacGMP-dependent protein kinase. Journal of Experimental Biology, 2007, 210, 3547-3558.	1.7	113
62	The foraging gene of Drosophila melanogaster: Spatialâ€expression analysis and sucrose responsiveness. Journal of Comparative Neurology, 2007, 504, 570-582.	1.6	55
63	Maintaining a behaviour polymorphism by frequency-dependent selection on a single gene. Nature, 2007, 447, 210-212.	27.8	185
64	Natural Variation in the Thermotolerance of Neural Function and Behavior due to a cGMP-Dependent Protein Kinase. PLoS ONE, 2007, 2, e773.	2.5	54
65	The nature of Drosophila melanogaster. Current Biology, 2006, 16, R623-R628.	3.9	63
66	Candidate genes for behavioural ecology. Trends in Ecology and Evolution, 2005, 20, 96-104.	8.7	214
67	Activity of cGMP-Dependent Protein Kinase (PKG) Affects Sucrose Responsiveness and Habituation in Drosophila melanogaster. Learning and Memory, 2004, 11, 303-311.	1.3	87
68	In Search of Food: Exploring the Evolutionary Link Between cGMP-Dependent Protein Kinase (PKG) and Behaviour. Integrative and Comparative Biology, 2004, 44, 28-36.	2.0	53
69	Refining GAL4-driven transgene expression inDrosophila with a GAL80 enhancer-trap. Genesis, 2004, 39, 240-245.	1.6	116
70	NPY and the Regulation of Behavioral Development. Neuron, 2003, 39, 6-8.	8.1	23
71	cGMP-dependent changes in phototaxis: a possible role for the foraging gene in honey bee division of labor. Journal of Experimental Biology, 2003, 206, 2507-2515.	1.7	157
72	Influence of Gene Action Across Different Time Scales on Behavior. Science, 2002, 296, 741-744.	12.6	454

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73	Drosophila: Genetics meets behaviour. Nature Reviews Genetics, 2001, 2, 879-890.	16.3	394
74	Gene-Environment Interaction and Complex Behavior. , 2001, , 3-28.		12
75	A cGMP-Dependent Protein Kinase Gene, foraging, Modifies Habituation-Like Response Decrement of the Giant Fiber Escape Circuit in Drosophila. Learning and Memory, 2000, 7, 341-352.	1.3	46
76	Abnormal Turning Behavior in Drosophila Larvae: Identification and Molecular Analysis of scribbler (sbb). Genetics, 2000, 155, 1161-1174.	2.9	41
77	Neuronal Polymorphism among Natural Alleles of a cGMP-Dependent Kinase Gene,foraging, inDrosophila. Journal of Neuroscience, 1999, 19, RC28-RC28.	3.6	64
78	Chapter 3.3.2 Behavior-genetic and molecular analysis of naturally occurring variation in Drosophila larval foraging behavior. Handbook of Behavioral Neuroscience, 1999, , 496-511.	0.0	4
79	Evolution of foraging behavior in Drosophila by density-dependent selection. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7373-7377.	7.1	208
80	PHENOTYPIC PLASTICITY IN THE LIFE HISTORY TRAITS OF GUPPIES: RESPONSES TO SOCIAL ENVIRONMENT. Ecology, 1997, 78, 419-433.	3.2	59
81	Natural Behavior Polymorphism Due to a cGMP-Dependent Protein Kinase of Drosophila. Science, 1997, 277, 834-836.	12.6	526
82	Natural selection in the laboratory for a change in resistance byDrosophila melanogaster to the parasitoid waspAsobara tabida. Journal of Insect Behavior, 1996, 9, 477-491.	0.7	25
83	Larval Behavior of Drosophila Central Complex Mutants: Interactions Between No Bridge, Foraging, and Chaser. Journal of Neurogenetics, 1996, 11, 99-115.	1.4	32
84	Characterization and Genetic Analysis ofDrosophila MelanogasterPhotobehavior During Larval Development. Journal of Neurogenetics, 1995, 10, 119-135.	1.4	93
85	Responses of a generalist and a specialist parasitoid (Hymenoptera: Eucoilidae) to Drosophilid larval kairomones. Journal of Insect Behavior, 1993, 6, 615-624.	0.7	43
86	Diapause in Drosophila melanogaster females: a genetic analysis. Heredity, 1993, 71, 312-317.	2.6	65
87	Genetic analysis of the foraging microregion of Drosophila melanogaster. Genome, 1993, 36, 94-101.	2.0	60
88	Mutations in the larval foraging gene affect adult locomotory behavior after feeding in Drosophila melanogaster.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5044-5046.	7.1	163
89	The foraging locus: behavioral tests for normal muscle movement in rover and sitter Drosophila melanogaster larvae. Genetica, 1992, 85, 205-209.	1.1	25
90	Habitat selection by Drosophila melanogaster larvae. Journal of Evolutionary Biology, 1992, 5, 61-70.	1.7	35

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91	Microgeographic variation in aDrosophila melanogaster larval behavior. Journal of Insect Behavior, 1989, 2, 829-834.	0.7	8
92	Genetic analyses of pupation distance in Drosophila melanogaster. Heredity, 1989, 62, 177-183.	2.6	29
93	Genetic localization of foraging (for): a major gene for larval behavior in Drosophila melanogaster.. Genetics, 1989, 123, 157-163.	2.9	175
94	Heredity of rover/sitter: Alternative foraging strategies of Drosophila melanogaster larvae. Heredity, 1987, 59, 73-83.	2.6	181
95	Genetic aspects to differences in foraging behavior. Behavioral and Brain Sciences, 1985, 8, 348-349.	0.7	5
96	Drosophila larval foraging behaviour: Developmental stages. Animal Behaviour, 1984, 32, 645-651.	1.9	83
97	Larval foraging behavior in isofemale lines of Drosophila melanogaster and D. pseudoobscura. Journal of Heredity, 1984, 75, 131-134.	2.4	54
98	Foraging strategies ofDrosophila melanogaster: A chromosomal analysis. Behavior Genetics, 1980, 10, 291-302.	2.1	304
99	Natureâ€“nurture interactions. , 0, , 11-25.		13