Mauro Santos

List of Publications by Year
in descending order

124 papers	4,513 citations	117625 34 h-index	123424 61 g-index
131 all docs	131 docs citations	131 times ranked	3550 citing authors

#	Article	IF	Citations
1	Thermal tolerance in <i>Drosophila</i>: Repercussions for distribution, community coexistence and responses to climate change. Journal of Animal Ecology, 2022, 91, 655-667.	2.8	7
2	High developmental temperature leads to low reproduction despite adult temperature. Journal of Thermal Biology, 2021, 95, 102794.	2.5	16
3	No evidence for shortâ€term evolutionary response to a warming environment in <i>Drosophila</i>. Evolution; International Journal of Organic Evolution, 2021, 75, 2816-2829.	2.3	11
4	Predicting temperature mortality and selection in natural <i>Drosophila</i> populations. Science, 2020, 369, 1242-1245.	12.6	85
5	Basal hsp70 expression levels do not explain adaptive variation of the warm- and cold-climate O3â€‰+â€‰4â€‰+â€‰7 and OST gene arrangements of Drosophila subobscura. BMC Evolutionary Biology, 2020, 20, 17.	3.2	2
6	Beneficial developmental acclimation in reproductive performance under cold but not heat stress. Journal of Thermal Biology, 2020, 90, 102580.	2.5	16
7	Editorial: Coping With Climate Change: A Genomic Perspective on Thermal Adaptation. Frontiers in Genetics, 2020, 11, 619441.	2.3	3
8	Evolution of linkage and genome expansion in protocells: The origin of chromosomes. PLoS Genetics, 2020, 16, e1009155.	3.5	15
9	Phenotypes to remember: Evolutionary developmental memory capacity and robustness. PLoS Computational Biology, 2020, 16, e1008425.	3.2	11
10	Phenotypes to remember: Evolutionary developmental memory capacity and robustness. , 2020, 16, e1008425.		0
11	Phenotypes to remember: Evolutionary developmental memory capacity and robustness. , 2020, 16, e1008425.		0
12	Phenotypes to remember: Evolutionary developmental memory capacity and robustness. , 2020, 16, e1008425.		0
13	Phenotypes to remember: Evolutionary developmental memory capacity and robustness. , 2020, 16, e1008425.		0
14	How phenotypic convergence arises in experimental evolution. Evolution; International Journal of Organic Evolution, 2019, 73, 1839-1849.	2.3	9
15	Evolutionary potential of thermal preference and heat tolerance in <i>Drosophila subobscura</i>. Journal of Evolutionary Biology, 2019, 32, 818-824.	1.7	32
16	Selection on structural allelic variation biases plasticity estimates. Evolution; International Journal of Organic Evolution, 2019, 73, 1057-1062.	2.3	4
17	Chromosomal inversions promote genomic islands of concerted evolution of <i>Hsp70</i> genes in the <i>Drosophila subobscura</i> species subgroup. Molecular Ecology, 2019, 28, 1316-1332.	3.9	16
18	The contribution of genetic variants of SLC2A1 gene in T2DM and T2DM-nephropathy: association study and meta-analysis. Renal Failure, 2018, 40, 561-576.	2.1	20

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19	Playing evolution in the laboratory: From the first major evolutionary transition to global warming. Europhysics Letters, 2018, 122, 38001.	2.0	8
20	Grand Views of Evolution. Trends in Ecology and Evolution, 2017, 32, 324-334.	8.7	34
21	Mate-choice copying: A fitness-enhancing behavior that evolves by indirect selection. Evolution; International Journal of Organic Evolution, 2017, 71, 1456-1464.	2.3	9
22	The revival of the Baldwin effect. European Physical Journal B, 2017, 90, 1.	1.5	2
23	Predictable phenotypic, but not karyotypic, evolution of populations with contrasting initial history. Scientific Reports, 2017, 7, 913.	3.3	20
24	Keeping your options open: Maintenance of thermal plasticity during adaptation to a stable environment. Evolution; International Journal of Organic Evolution, 2016, 70, 195-206.	2.3	33
25	Heat tolerance in<i>Drosophila subobscura</i>along a latitudinal gradient: Contrasting patterns between plastic and genetic responses. Evolution; International Journal of Organic Evolution, 2015, 69, 2721-2734.	2.3	73
26	Wing traitâ€“inversion associations in <i>Drosophila subobscura</i> can be generalized within continents, but may change through time. Journal of Evolutionary Biology, 2015, 28, 2163-2174.	1.7	7
27	Phenotypic plasticity, the Baldwin effect, and the speeding up of evolution: The computational roots of an illusion. Journal of Theoretical Biology, 2015, 371, 127-136.	1.7	17
28	Primordial evolvability: Impasses and challenges. Journal of Theoretical Biology, 2015, 381, 29-38.	1.7	21
29	Evolution of the Division of Labor between Genes and Enzymes in the RNA World. PLoS Computational Biology, 2014, 10, e1003936.	3.2	15
30	Negative Public Information in Mate Choice Copying Helps the Spread of a Novel Trait. American Naturalist, 2014, 184, 658-672.	2.1	15
31	Tolerance landscapes in thermal ecology. Functional Ecology, 2014, 28, 799-809.	3.6	272
32	How much can history constrain adaptive evolution? A realâ€time evolutionary approach of inversion polymorphisms in <i>Drosophila subobscura</i>. Journal of Evolutionary Biology, 2014, 27, 2727-2738.	1.7	27
33	Laboratory Selection Quickly Erases Historical Differentiation. PLoS ONE, 2014, 9, e96227.	2.5	33
34	Vanishing Chromosomal Inversion Clines in<i>Drosophila subobscura</i>from Chile: Is Behavioral Thermoregulation to Blame?. American Naturalist, 2013, 182, 249-259.	2.1	33
35	Genome-wide evolutionary response to a heat wave in <i>Drosophila</i>. Biology Letters, 2013, 9, 20130228.	2.3	92
36	Comment on â€˜Ecologically relevant measures of tolerance to potentially lethal temperaturesâ€™. Journal of Experimental Biology, 2012, 215, 702-703.	1.7	11

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37	Performance of MAX Test and Degree of Dominance Index in Predicting the Mode of Inheritance. Statistical Applications in Genetics and Molecular Biology, 2012, 11, Article 4.	0.6	9
38	Keeping pace with climate change: what is wrong with the evolutionary potential of upper thermal limits?. Ecology and Evolution, 2012, 2, 2866-2880.	1.9	36
39	Measurement error in heat tolerance assays. Journal of Thermal Biology, 2012, 37, 432-437.	2.5	18
40	From nature to the laboratory: the impact of founder effects on adaptation. Journal of Evolutionary Biology, 2012, 25, 2607-2622.	1.7	38
41	Evolution before genes. Biology Direct, 2012, 7, 1; discussion 1.	4.6	225
42	PERVASIVE GENETIC INTEGRATION DIRECTS THE EVOLUTION OF HUMAN SKULL SHAPE. Evolution; International Journal of Organic Evolution, 2012, 66, 1010-1023.	2.3	86
43	Hsp70 protein levels and thermotolerance in <i>Drosophila subobscura</i>: a reassessment of the thermal coâ€adaptation hypothesis. Journal of Evolutionary Biology, 2012, 25, 691-700.	1.7	41
44	Estimating the adaptive potential of critical thermal limits: methodological problems and evolutionary implications. Functional Ecology, 2011, 25, 111-121.	3.6	214
45	Making sense of heat tolerance estimates in ectotherms: lessons from<i>Drosophila</i>. Functional Ecology, 2011, 25, 1169-1180.	3.6	91
46	Estimating the mode of inheritance in genetic association studies of qualitative traits based on the degree of dominance index. BMC Medical Research Methodology, 2011, 11, 171.	3.1	37
47	Genetic constraints for thermal coadaptation in Drosophila subobscura. BMC Evolutionary Biology, 2010, 10, 363.	3.2	27
48	Selfishness versus functional cooperation in a stochastic protocell model. Journal of Theoretical Biology, 2010, 267, 605-613.	1.7	17
49	CLINAL PATTERNS OF CHROMOSOMAL INVERSION POLYMORPHISMS IN<i>DROSOPHILA SUBOBSCURA</i>ARE PARTLY ASSOCIATED WITH THERMAL PREFERENCES AND HEAT STRESS RESISTANCE. Evolution; International Journal of Organic Evolution, 2010, 64, 385-397.	2.3	60
50	Contrasting patterns of phenotypic variation linked to chromosomal inversions in native and colonizing populations of <i>Drosophila subobscura</i>. Journal of Evolutionary Biology, 2010, 23, 112-123.	1.7	19
51	Lack of evolvability in self-sustaining autocatalytic networks constraints metabolism-first scenarios for the origin of life. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1470-1475.	7.1	155
52	Climate change and chromosomal inversions in Drosophila subobscura. Climate Research, 2010, 43, 103-114.	1.1	55
53	Recombination Load in a Chromosomal Inversion Polymorphism of Drosophila subobscura. Genetics, 2009, 181, 803-809.	2.9	17
54	Heritability of human cranial dimensions: comparing the evolvability of different cranial regions. Journal of Anatomy, 2009, 214, 19-35.	1.5	165

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55	â€˜Social heterosisâ€™ as a process that maintains genetic variation â€“ a comment. Journal of Evolutionary Biology, 2008, 21, 625-630.	1.7	3
56	Genetic hitchhiking can promote the initial spread of strong altruism. BMC Evolutionary Biology, 2008, 8, 281.	3.2	8
57	Evolution of total net fitness in thermal lines:<i>Drosophila subobscura</i>likes it â€˜warmâ€™. Journal of Evolutionary Biology, 2007, 20, 2361-2370.	1.7	24
58	Thermal evolution of gene expression profiles in Drosophila subobscura. BMC Evolutionary Biology, 2007, 7, 42.	3.2	58
59	Quantitative genetics of speciation: additive and non-additive genetic differentiation between Drosophila madeirensis and Drosophila subobscura. Genetica, 2007, 131, 167-174.	1.1	9
60	Fitness Landscapes, Error Thresholds, and Cofactors in Aptamer Evolution. , 2006, , 54-92.		3
61	Polymorphisms of alcohol-metabolizing enzymes and the risk for alcoholism and alcoholic liver disease in Caucasian Spanish women. Drug and Alcohol Dependence, 2006, 84, 195-200.	3.2	34
62	SYMMETRY BREAKING IN INTERSPECIFIC DROSOPHILA HYBRIDS IS NOT DUE TO DEVELOPMENTAL NOISE. Evolution; International Journal of Organic Evolution, 2006, 60, 746-761.	2.3	31
63	Thermal evolution of pre-adult life history traits, geometric size and shape, and developmental stability in Drosophila subobscura. Journal of Evolutionary Biology, 2006, 19, 2006-2021.	1.7	35
64	Coexistence and error propagation in pre-biotic vesicle models: A group selection approach. Journal of Theoretical Biology, 2006, 239, 247-256.	1.7	41
65	Do alcohol-metabolizing enzyme gene polymorphisms increase the risk of alcoholism and alcoholic liver disease?. Hepatology, 2006, 43, 352-361.	7.3	189
66	SYMMETRY BREAKING IN INTERSPECIFIC DROSOPHILA HYBRIDS IS NOT DUE TO DEVELOPMENTAL NOISE. Evolution; International Journal of Organic Evolution, 2006, 60, 746.	2.3	2
67	Symmetry breaking in interspecific Drosophila hybrids is not due to developmental noise. Evolution; International Journal of Organic Evolution, 2006, 60, 746-61.	2.3	11
68	Real ribozymes suggest a relaxed error threshold. Nature Genetics, 2005, 37, 1008-1011.	21.4	119
69	Genetics and geometry of canalization and developmental stability in Drosophila subobscura. BMC Evolutionary Biology, 2005, 5, 7.	3.2	52
70	Temperatureâ€Related Genetic Changes in Laboratory Populations of Drosophila subobscura: Evidence against Simple Climaticâ€Based Explanations for Latitudinal Clines. American Naturalist, 2005, 165, 258-273.	2.1	69
71	Swift laboratory thermal evolution of wing shape (but not size) in Drosophila subobscura and its relationship with chromosomal inversion polymorphism. Journal of Evolutionary Biology, 2004, 17, 841-855.	1.7	51
72	Recombination in Primeval Genomes: A Step Forward but Still a Long Leap from Maintaining a Sizable Genome. Journal of Molecular Evolution, 2004, 59, 507-519.	1.8	31

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73	Genetic polymorphisms of ADH2, ADH3, CYP4502E1 Dra-I and Pst-I, and ALDH2 in Spanish men: lack of association with alcoholism and alcoholic liver disease. Journal of Hepatology, 2004, 41, 744-750.	3.7	78
74	Origin of sex revisited. Origins of Life and Evolution of Biospheres, 2003, 33, 405-432.	1.9	21
75	Quantitative-genetic analysis of wing form and bilateral asymmetry in isochromosomal lines ofDrosophila subobscura using Procrustes methods. Journal of Genetics, 2003, 82, 95-113.	0.7	21
76	The Evolutionary History of Drosophila buzzatii. XXXV. Inversion Polymorphism and Nucleotide Variability in Different Regions of the Second Chromosome. Molecular Biology and Evolution, 2003, 20, 931-944.	8.9	39
77	â€œLivingâ€•Under the Challenge of Information Decay: The Stochastic Corrector Model vs. Hypercycles. Journal of Theoretical Biology, 2002, 217, 167-181.	1.7	64
78	Genetics of wing size asymmetry inDrosophila buzzatii. Journal of Evolutionary Biology, 2002, 15, 720-734.	1.7	19
79	FLUCTUATING ASYMMETRY IS NONGENETICALLY RELATED TO MATING SUCCESS IN DROSOPHILA BUZZATII. Evolution; International Journal of Organic Evolution, 2001, 55, 2248-2256.	2.3	28
80	FLUCTUATING ASYMMETRY IS NONGENETICALLY RELATED TO MATING SUCCESS IN DROSOPHILA BUZZATII. Evolution; International Journal of Organic Evolution, 2001, 55, 2248.	2.3	1
81	Genetic polymorphism of alcohol dehydrogenase in europeans: TheADH2*2 allele decreases the risk for alcoholism and is associated withADH3*1. Hepatology, 2000, 31, 984-989.	7.3	230
82	Toward a Physical Map of <i>Drosophila buzzatii</i>: Use of Randomly Amplified Polymorphic DNA Polymorphisms and Sequence-Tagged Site Landmarks. Genetics, 2000, 156, 1797-1816.	2.9	23
83	Competition and Genotype-by-Environment Interaction in Natural Breeding Substrates of Drosophila. Evolution; International Journal of Organic Evolution, 1999, 53, 175.	2.3	6
84	COMPETITION AND GENOTYPE-BY-ENVIRONMENT INTERACTION IN NATURAL BREEDING SUBSTRATES OF<i>DROSOPHILA</i>. Evolution; International Journal of Organic Evolution, 1999, 53, 175-186.	2.3	8
85	Antagonistic Pleiotropic Effect of Second-Chromosome Inversions on Body Size and Early Life-History Traits in Drosophila buzzatii. Evolution; International Journal of Organic Evolution, 1998, 52, 144.	2.3	19
86	Origin of Chromosomes in Response to Mutation Pressure. American Naturalist, 1998, 152, 751-756.	2.1	6
87	ANTAGONISTIC PLEIOTROPIC EFFECT OF SECOND-CHROMOSOME INVERSIONS ON BODY SIZE AND EARLY LIFE-HISTORY TRAITS IN<i>DROSOPHILA BUZZATII</i>. Evolution; International Journal of Organic Evolution, 1998, 52, 144-154.	2.3	41
88	On the contribution of deleterious alleles to fitness variance in natural populations of Drosophila. Genetical Research, 1997, 70, 105-115.	0.9	8
89	DENSITYâ€ĐEPENDENT NATURAL SELECTION IN <i>DROSOPHILA</i> : EVOLUTION OF GROWTH RATE AND BODY SIZE. Evolution; International Journal of Organic Evolution, 1997, 51, 420-432.	2.3	77
90	Density-Dependent Natural Selection in Drosophila: Evolution of Growth Rate and Body Size. Evolution; International Journal of Organic Evolution, 1997, 51, 420.	2.3	64

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91	Resource subdivision and the advantage of genotypic diversity in Drosophila. Heredity, 1997, 78, 302-310.	2.6	10
92	Resource subdivision and the advantage of genotypic diversity in Drosophila. Heredity, 1997, 78, 302-310.	2.6	2
93	Breeding structure of Drosophila buzzatii in relation to competition in prickly pears (Opuntia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.0	0
94	Apparent Directional Selection of Body Size in Drosophila buzzatii: Larval Crowding and Male Mating Success. Evolution; International Journal of Organic Evolution, 1996, 50, 2530.	2.3	12
95	APPARENT DIRECTIONAL SELECTION OF BODY SIZE IN<i>DROSOPHILA BUZZATII</i>: LARVAL CROWDING AND MALE MATING SUCCESS. Evolution; International Journal of Organic Evolution, 1996, 50, 2530-2535.	2.3	11
96	The evolutionary history of Drosophila buzzatii. XXXIII. Are Opuntia hosts a selective factor for the inversion polymorphism?. Heredity, 1996, 77, 500-508.	2.6	16
97	The evolutionary history of Drosophila buzzatii. XXXII. Linkage disequilibrium between allozymes and chromosome inversions in two colonizing populations. Heredity, 1995, 74, 188-199.	2.6	19
98	Geneâ€“environment interaction for body size and larval density in Drosophila melanogaster: an investigation of effects on development time, thorax length and adult sex ratio. Heredity, 1994, 72, 515-521.	2.6	83
99	Mating Pattern and Fitness-Component Analysis Associated with Inversion Polymorphism in a Natural Population of Drosophila buzzatii. Evolution; International Journal of Organic Evolution, 1994, 48, 767.	2.3	4
100	MATING PATTERN AND FITNESS-COMPONENT ANALYSIS ASSOCIATED WITH INVERSION POLYMORPHISM IN A NATURAL POPULATION OF<i>DROSOPHILA BUZZATII</i>. Evolution; International Journal of Organic Evolution, 1994, 48, 767-780.	2.3	12
101	HETEROZYGOTE DEFICIENCIES UNDER LEVENE'S POPULATION SUBDIVISION STRUCTURE. Evolution; International Journal of Organic Evolution, 1994, 48, 912-920.	2.3	5
102	Heterozygote Deficiencies Under Levene's Population Subdivision Structure. Evolution; International Journal of Organic Evolution, 1994, 48, 912.	2.3	3
103	The estimation of genotypic probabilities in an adult population by the analysis of descendants. Genetical Research, 1992, 59, 131-137.	0.9	3
104	The evolutionary history of Drosophila buzzatii. XX. Positive phenotypic covariance between field adult fitness components and body size. Journal of Evolutionary Biology, 1992, 5, 403-422.	1.7	83
105	On the use of tester stocks to predict the competitive ability of genotypes. Heredity, 1992, 69, 489-495.	2.6	45
106	The evolutionary history of Drosophila buzzatii. XXV. Random mating in nature. Heredity, 1992, 68, 373-379.	2.6	17
107	The Evolutionary History of Drosophila buzzatii. XIII. Random Differentiation as a Partial Explanation of Chromosomal Variation in a Structured Natural Population. American Naturalist, 1989, 133, 183-197.	2.1	31
108	The effect of glucose-6-phosphate isomerase genotype onin vitro specific activity andin vivo flux inMytilus edulis. Biochemical Genetics, 1989, 27, 451-467.	1.7	7

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109	The effect of glucose-6-phosphate isomerase genotype onin vitro specific activity andin vivo flux inMytilus edulis. Biochemical Genetics, 1989, 27, 451-467.	1.7	4
110	The evolutionary history of Drosophila buzzatii. XIV. Larger flies mate more often in nature. Heredity, 1988, 61, 255-262.	2.6	118
111	Differential response to environmental alcohol among second-chromosome arrangements in experimental populations of Drosophila buzzatii. Genetica, 1987, 75, 219-229.	1.1	2
112	The role of genic selection in the establishment of inversion polymorphism in Drosophila subobscura. Genetica, 1986, 69, 35-45.	1.1	14
113	Sexual selection on chromosomal polymorphism in Drosophila subobscura. Heredity, 1986, 57, 161-169.	2.6	24
114	On the Measurement of Total and Sexual Selection: A Reply to Christiansen. Evolution; International Journal of Organic Evolution, 1984, 38, 701.	2.3	0
115	Frequency-Dependent Selection Arising from Inappropriate Fitness Estimation. Evolution; International Journal of Organic Evolution, 1984, 38, 696.	2.3	1
116	FREQUENCY-DEPENDENT SELECTION ARISING FROM INAPPROPRIATE FITNESS ESTIMATION. Evolution; International Journal of Organic Evolution, 1984, 38, 696-699.	2.3	8
117	Selection at sex-linked loci. I. A method of estimating total fitnesses. Heredity, 1983, 50, 147-157.	2.6	1
118	Origin of Inversions and Wallace's Rule of Triads. Evolution; International Journal of Organic Evolution, 1982, 36, 407.	2.3	1
119	ORIGIN OF INVERSIONS AND WALLACE'S RULE OF TRIADS. Evolution; International Journal of Organic Evolution, 1982, 36, 407-409.	2.3	6
120	Selection at the Adh locus inDrosophila melanogaster: Adult survivorship-mortality in response to ethanol. Experientia, 1981, 37, 463-464.	1.2	15
121	Genetic analysis of modifier variability inDrosophila subobscura. Experientia, 1981, 37, 1150-1152.	1.2	6
122	Genotype-isopropanol interaction in theAdh locus ofDrosophila buzzatii. Experientia, 1980, 36, 398-400.	1.2	11
123	BIOCHEMICAL DIFFERENCES BETWEEN PRODUCTS OF THE <i>Adh</i> LOCUS IN DROSOPHILA. Genetics, 1980, 95, 1013-1022.	2.9	69
124	Evolutionary Potential and Requirements for Minimal Protocells. , 0, , 167-211.		64